

CANADIAN CATALOG 2024

Pilot devices

The complete offering



ABB pilot devices are engineered for total reliability. Their innovative design simplify the entire process, from selection to installation. Enclosures, signal towers and signal beacons complete the portfolio.

Pilot devices

The complete offering

OVERVIEW
P.2

**MODULAR
PLASTIC RANGE,
22 MM**
P.13

**MODULAR
METAL RANGE,
22 MM**
P.55

**COMPACT RANGE,
22 MM**
P.89

**ENCLOSURES
AND ASSEMBLED
STATIONS**
P.121

**LEGEND PLATES
AND TEXT CAPS**
P.133

**HEAVY DUTY
OIL-TIGHT RANGE,
30 MM**
P.141

**GENERAL
TECHNICAL DATA**
P.190

INDEX
P.192

MARKETING MATERIALS
P. 226

Pilot devices

Reliable in all applications

Whether it is installed in an EV charger or in the testing equipment of an elevator ABB pilot devices will work as a reliable interface for operators. They are designed and tested to withstand extreme environments.



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01



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02



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03

- 01 Elevator
- 02 EV charging
- 03 Marine

A small upgrade that can make a big difference.

Trust is everything. And in industrial environments, it is essential to have human-machine interfaces you can count on. Whenever you start or stop a process, the response must be assured. That's why ABB pilot devices are designed and engineered to deliver total reliability.

Continuous production, maximum uptime and higher profits require exceptional process reliability.



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04

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04 Food and beverage

—
05 Marine and ports

When it comes to the safety of your people, dependability is essential.



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05

The details matter. Work starts and stops with pilot devices and so does your productivity and safety. Rely on ABB pilot devices to perform when it matters the most.

Pilot devices

Reliable products, easy to select and install



ABB pilot devices are engineered for total reliability. Our products are tested to extremes and proven in the toughest environments. Their innovative design simplify the entire process, from selection to installation. Enclosures, signal towers and signal beacons complete the portfolio.



Continuous operation

Engineered for tough environments

ABB pilot devices are designed with protection degree of up to IP69K and 4X, guaranteeing reliability in extreme environments – making ABB pilot devices ideal for use in demanding industries such as construction and food and beverage. An innovative design that automatically cleans contacts ensures high reliability for all products.



Global availability

Simple selection and stock management

ABB's core offering includes the pilot devices most in demand, so product selection is easier, stock management is simpler and product availability is higher.

Support for exporters is world-class, thanks to ABB's standardized global range, certified to comply with all major international standards.



Easy to install

Save time and space

The unique design of ABB's modular ranges enable tool-free installation that is quick and simple. It provides high flexibility for last-minute changes. With its all-in-one construction, the compact range reduces installation space and saves time.

Pilot devices

Reliability that lasts

Continuous operation

Longer lifetime

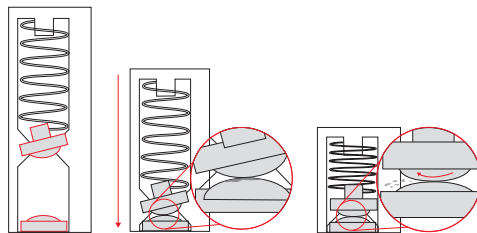
- ABB pilot Devices are engineered and tested to sustain frequent use over time in any environment

High mechanical durability

- Tested to achieve mechanical life time of up to 10 million operations

Ensuring electric connectivity

- Self-cleaning contacts ensure reliable operation without the need for maintenance, increasing uptime



The built-in wiping mechanism cleans the contacts when operated to remove dust and oxidation on the contacts and improve conductivity.

Dust and water proof

All ABB pilot devices are impenetrable to dust and are extremely resistant to water exposure.

IP66

IP66-classed pilot devices can withstand high-pressure water jets and are suitable for tough outdoor use.

IP67

IP67-classed pilot devices can withstand immersion in one meter of water for 30 minutes. They are suitable for use in the harshest environments with water and dust.

IP69K

IP69K pilot devices can withstand both rough treatment and intensive, high-temperature cleaning. They are ideal for environments with high sanitary requirements, such as the food and beverage industry.

Find full test description in general technical data section.

01 Mechanical durability test

02 Total protection against any kind of dust

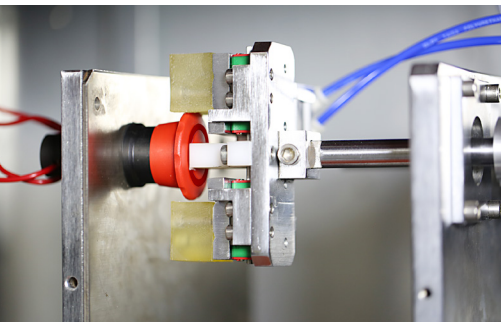
03 Powerful water jets projected against the front from a distance of 3 meters

Testing that goes beyond the standards



Watch the video

Trust ABB to produce products that work in any environment.



01



02



03

Pilot devices

Global quality, local support



Global availability

Available worldwide from ABB

Achieve truly global solutions

- Same products and quality all around the world
- Local support available everywhere with ABB's global distribution network
- All certificates and spare parts available globally.

Always the right solution with the wide range of LEDs

Save time and money on your projects with fewer order codes for your illuminated products.

With supply voltage of 6.3 V DC to 415 V AC for both modular and compact range, ABB covers all the needs with no additional transformers.

Easy to install

Reduce installation time by choosing between the flexible modular ranges and the all-in-one compact range of pilot devices.

Mixing and matching the two ranges enables faster and more flexible purchasing and design. Fastening of the nut is tool-free and most accessories can be used for both ranges.

Modular plastic range

Flexible configuration

A versatile selection of operators with high levels of flexibility and a broad choice of electrical ratings. Find the perfect solution for almost every application.



Modular metal range

Designed for demanding applications

ABB's modular metal range combines ultimate reliability with the total flexibility of a modular range. For mining, construction and heavy industry applications, find the right solution here.



Pushbuttons



Mushroom
pushbuttons



Pilot lights



Selector switches



Key-operated
selector switches



Joysticks



Toggle switches



Selector
pushbuttons



Installation time savings
Tool-free, snap-on components make
mounting and dismantling quick and easy



Snap on holder
for 3 or 5 contact blocks

Assured robustness for demanding environments

- Full satin chrome metal body and nut
- High friction nut and metal stops
make sure the operator stays in place
- IP66 high dust and water protection rating

UL/CSA Type 1, 3, 3R, 3S, 4, 4X, 12, 13
aluminum metal enclosures
are available to accompany this range

Compact range

All-in-one solution

The most efficient solution available, reducing installation time and cost. The compact range have the highest level of dust and water resistance on the market.



Pushbuttons



Heavy duty pushbuttons



Mushroom pushbuttons



Emergency stop pushbuttons



Machine stop pushbuttons



Pilot lights



Selector switches



Buzzers

Fewer order codes make selection easy and save time.

All-in-one design makes installation fast.



Improve reliability:
Higher protection levels
with IP66, IP67 and IP69K
classification and 4X
(NEMA)

Compact:
Just 42 mm
built in depth

Pilot devices, 22 mm

Modular plastic range

Ordering details

14	Mounting instructions
15	Non-illuminated pushbuttons
17	Illuminated pushbuttons
19	Non-illuminated double pushbuttons
20	Illuminated double pushbuttons
22	Mushroom pushbuttons
23	Emergency stop pushbuttons
24	Machine stop pushbuttons
25	Heavy duty pushbuttons
26	Non-illuminated selector switches
32	Illuminated selector switches
36	Key-operated selector switches–2 and 3 position
38	Potentiometers
39	Reset pushbuttons
41	Joysticks
42	Toggle switches

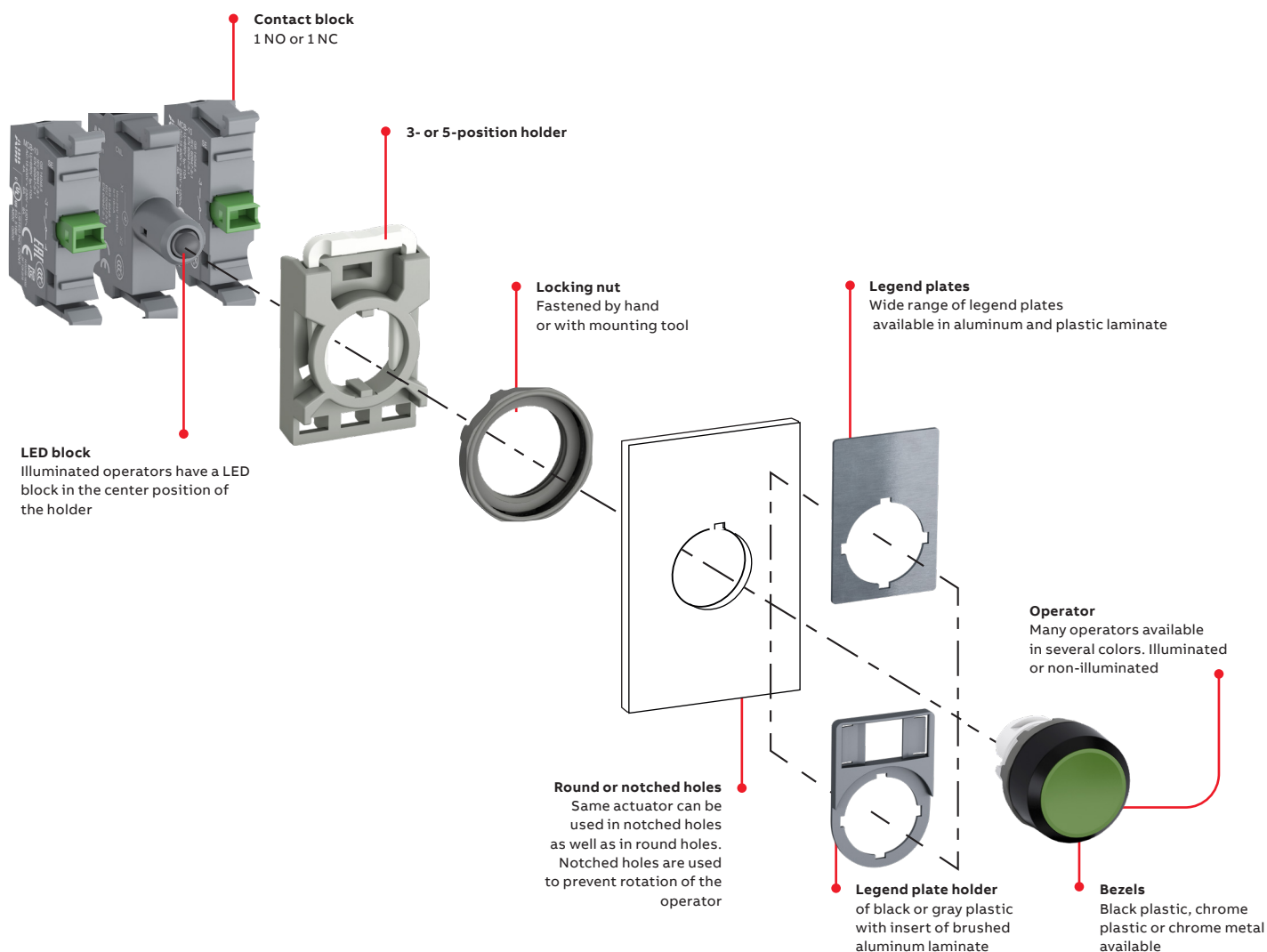
Accessories for modular range

43	Contact block configuration
44	Holders and contact blocks for front mounting
45	LED blocks for front mounting
47	Other accessories

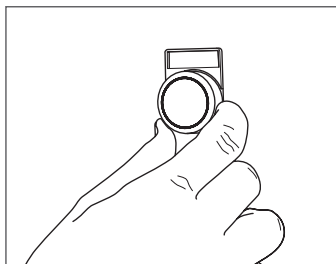
Technical data

Drilling plan

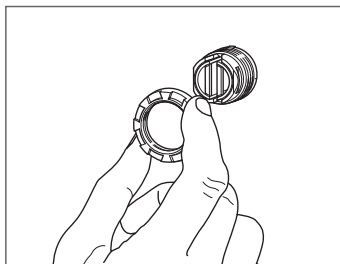
Modular plastic range



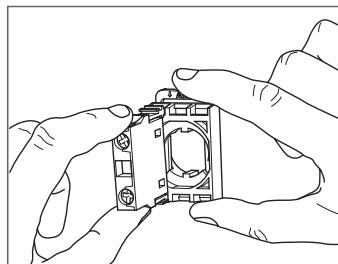
Easy to install



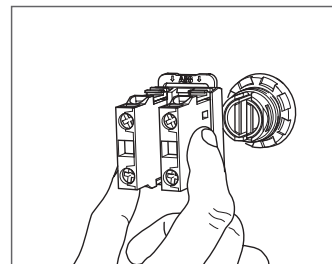
The operator is to be inserted from the front...



...and secured at the back with the nut.

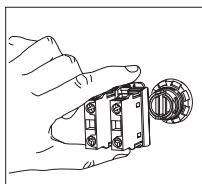
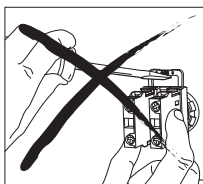


The contact blocks/LED block are then snapped on to the holder...



...and the holder snaps on to the operator.

...and to remove



Press down the spring on the holder and pull the holder from the actuator.

Simple and fast installation



Watch the video

Modular plastic range

Non-illuminated flush pushbuttons



MP1-10R



MP1-10Y



MP1-30L



MP2-10G

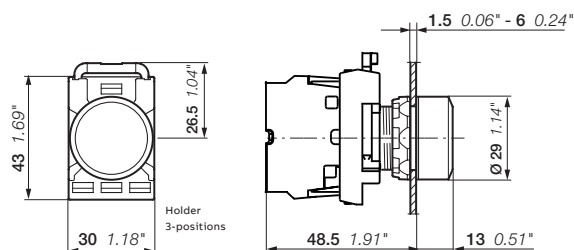


MP2-10W



MP2-30B

Operator	Bezel	Type	Order code	Pkg qty	Weight (1 pce) kg
Momentary					
● Red	Black plastic	MP1-10R	1SFA611100R1001	1	0.016
	Chrome metal	MP1-30R	1SFA611100R3001	1	0.026
● Green	Black plastic	MP1-10G	1SFA611100R1002	1	0.016
	Chrome metal	MP1-30G	1SFA611100R3002	1	0.026
● Yellow	Black plastic	MP1-10Y	1SFA611100R1003	1	0.016
	Chrome metal	MP1-30Y	1SFA611100R3003	1	0.026
● Blue	Black plastic	MP1-10L	1SFA611100R1004	1	0.016
	Chrome metal	MP1-30L	1SFA611100R3004	1	0.026
○ White	Black plastic	MP1-10W	1SFA611100R1005	1	0.016
	Chrome metal	MP1-30W	1SFA611100R3005	1	0.026
● Black	Black plastic	MP1-10B	1SFA611100R1006	1	0.016
	Chrome metal	MP1-30B	1SFA611100R3006	1	0.026
○ Clear	Black plastic	MP1-10C	1SFA611100R1008	1	0.016
	Chrome metal	MP1-30C	1SFA611100R3008	1	0.026
Maintained					
● Red	Black plastic	MP2-10R	1SFA611101R1001	1	0.016
	Chrome metal	MP2-30R	1SFA611101R3001	1	0.026
● Green	Black plastic	MP2-10G	1SFA611101R1002	1	0.016
	Chrome metal	MP2-30G	1SFA611101R3002	1	0.026
● Yellow	Black plastic	MP2-10Y	1SFA611101R1003	1	0.016
	Chrome metal	MP2-30Y	1SFA611101R3003	1	0.026
● Blue	Black plastic	MP2-10L	1SFA611101R1004	1	0.016
	Chrome metal	MP2-30L	1SFA611101R3004	1	0.026
○ White	Black plastic	MP2-10W	1SFA611101R1005	1	0.016
	Chrome metal	MP2-30W	1SFA611101R3005	1	0.026
● Black	Black plastic	MP2-10B	1SFA611101R1006	1	0.016
	Chrome metal	MP2-30B	1SFA611101R3006	1	0.026
○ Clear	Black plastic	MP2-10C	1SFA611101R1008	1	0.016
	Chrome metal	MP2-30C	1SFA611101R3008	1	0.026



MP1, MP2

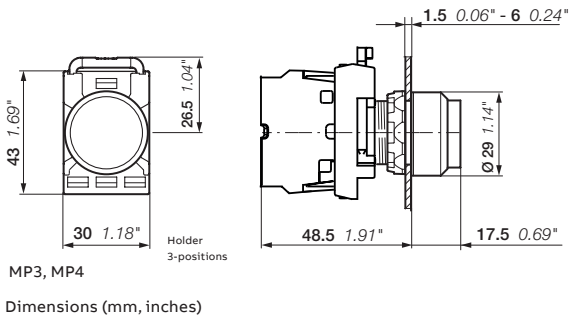
Dimensions (mm, inches)

Modular plastic range

Non-illuminated extended pushbuttons



Operator	Bezel	Type	Order code	Pkg qty	Weight (1 pce) kg
Momentary					
● Red	Black plastic	MP3-10R	1SFA611102R1001	1	0.016
	Chrome metal	MP3-30R	1SFA611102R3001	1	0.026
● Green	Black plastic	MP3-10G	1SFA611102R1002	1	0.016
	Chrome metal	MP3-30G	1SFA611102R3002	1	0.026
● Yellow	Black plastic	MP3-10Y	1SFA611102R1003	1	0.016
	Chrome metal	MP3-30Y	1SFA611102R3003	1	0.026
● Blue	Black plastic	MP3-10L	1SFA611102R1004	1	0.016
	Chrome metal	MP3-30L	1SFA611102R3004	1	0.026
○ White	Black plastic	MP3-10W	1SFA611102R1005	1	0.016
	Chrome metal	MP3-30W	1SFA611102R3005	1	0.026
● Black	Black plastic	MP3-10B	1SFA611102R1006	1	0.016
	Chrome metal	MP3-30B	1SFA611102R3006	1	0.026
○ Clear	Black plastic	MP3-10C	1SFA611102R1008	1	0.016
	Chrome metal	MP3-30C	1SFA611102R3008	1	0.026
Maintained					
● Red	Black plastic	MP4-10R	1SFA611103R1001	1	0.016
● Green	Black plastic	MP4-10G	1SFA611103R1002	1	0.016
	Chrome metal	MP4-30G	1SFA611103R3002	1	0.026
● Yellow	Black plastic	MP4-10Y	1SFA611103R1003	1	0.016
● Blue	Black plastic	MP4-10L	1SFA611103R1004	1	0.016
○ White	Black plastic	MP4-10W	1SFA611103R1005	1	0.016
● Black	Black plastic	MP4-10B	1SFA611103R1006	1	0.016
	Chrome metal	MP4-30B	1SFA611103R3006	1	0.026
○ Clear	Black plastic	MP4-10C	1SFA611103R1008	1	0.016



Modular plastic range

Illuminated flush pushbuttons



MP1-31G

1SFC151048V0001



MP1-11Y

1SFC151042V0001



MP1-31L



MP2-31R

1SFC151046V0001



MP2-11L

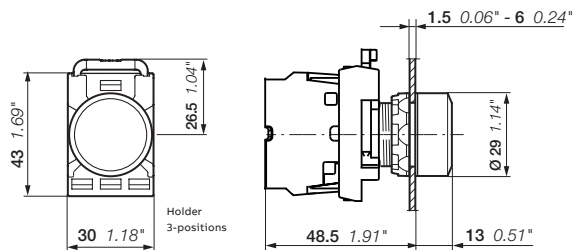
1SFC151040V0001



MP2-11C

1SFC151044V0001

Operator	Bezel	Type	Order code	Pkg qty	Weight (1 pce) kg
Momentary					
● Red	Black plastic	MP1-11R	1SFA611100R1101	1	0.016
	Chrome metal	MP1-31R	1SFA611100R3101	1	0.026
● Green	Black plastic	MP1-11G	1SFA611100R1102	1	0.016
	Chrome metal	MP1-31G	1SFA611100R3102	1	0.026
● Yellow	Black plastic	MP1-11Y	1SFA611100R1103	1	0.016
	Chrome metal	MP1-31Y	1SFA611100R3103	1	0.026
● Blue	Black plastic	MP1-11L	1SFA611100R1104	1	0.016
	Chrome metal	MP1-31L	1SFA611100R3104	1	0.026
○ White	Black plastic	MP1-11W	1SFA611100R1105	1	0.016
	Chrome metal	MP1-31W	1SFA611100R3105	1	0.026
○ Clear	Black plastic	MP1-11C	1SFA611100R1108	1	0.016
	Chrome metal	MP1-31C	1SFA611100R3108	1	0.026
Maintained					
● Red	Black plastic	MP2-11R	1SFA611101R1101	1	0.016
	Chrome metal	MP2-31R	1SFA611101R3101	1	0.026
● Green	Black plastic	MP2-11G	1SFA611101R1102	1	0.016
	Chrome metal	MP2-31G	1SFA611101R3102	1	0.026
● Yellow	Black plastic	MP2-11Y	1SFA611101R1103	1	0.016
	Chrome metal	MP2-31Y	1SFA611101R3103	1	0.026
● Blue	Black plastic	MP2-11L	1SFA611101R1104	1	0.016
	Chrome metal	MP2-31L	1SFA611101R3104	1	0.026
○ White	Black plastic	MP2-11W	1SFA611101R1105	1	0.016
	Chrome metal	MP2-31W	1SFA611101R3105	1	0.026
○ Clear	Black plastic	MP2-11C	1SFA611101R1108	1	0.016
	Chrome metal	MP2-31C	1SFA611101R3108	1	0.026



MP1, MP2

Dimensions (mm, inches)

Modular plastic range

Illuminated extended pushbuttons



MP3-11R

1SFC151065V0001



MP3-31G

1SFC151062V0001



MP3-11W

1SFC151072V0001



MP4-11Y

1SFC151063V0001



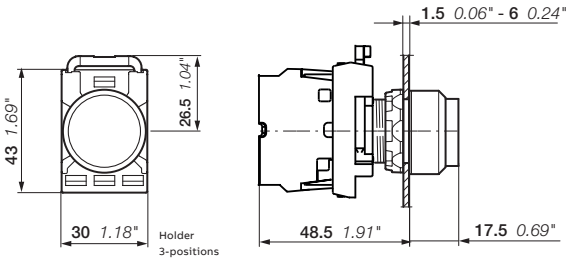
MP4-31L

1SFC151081V0001



MP4-31C

Operator	Bezel	Type	Order code	Pkg qty	Weight (1 pce) kg
Momentary					
● Red	Black plastic	MP3-11R	1SFA611102R1101	1	0.016
	Chrome metal	MP3-31R	1SFA611102R3101	1	0.026
● Green	Black plastic	MP3-11G	1SFA611102R1102	1	0.016
	Chrome metal	MP3-31G	1SFA611102R3102	1	0.026
● Yellow	Black plastic	MP3-11Y	1SFA611102R1103	1	0.016
	Chrome metal	MP3-31Y	1SFA611102R3103	1	0.026
● Blue	Black plastic	MP3-11L	1SFA611102R1104	1	0.016
	Chrome metal	MP3-31L	1SFA611102R3104	1	0.026
○ White	Black plastic	MP3-11W	1SFA611102R1105	1	0.016
	Chrome metal	MP3-31W	1SFA611102R3105	1	0.026
○ Clear	Black plastic	MP3-11C	1SFA611102R1108	1	0.016
	Chrome metal	MP3-31C	1SFA611102R3108	1	0.026
Maintained					
● Red	Black plastic	MP4-11R	1SFA611103R1101	1	0.016
	Chrome metal	MP4-31R	1SFA611103R3101	1	0.026
● Green	Black plastic	MP4-11G	1SFA611103R1102	1	0.016
	Chrome metal	MP4-31G	1SFA611103R3102	1	0.026
● Yellow	Black plastic	MP4-11Y	1SFA611103R1103	1	0.016
● Blue	Black plastic	MP4-11L	1SFA611103R1104	1	0.016
	Chrome metal	MP4-31L	1SFA611103R3104	1	0.026
○ White	Black plastic	MP4-11W	1SFA611103R1105	1	0.016
○ Clear	Black plastic	MP4-11C	1SFA611103R1108	1	0.016
	Chrome metal	MP4-31C	1SFA611103R3108	1	0.026



MP3, MP4

Dimensions (mm, inches)

Modular plastic range

Non-illuminated double pushbuttons momentary



MPD1-11B

1SFC151056V0001



MPD5-11B

1SFC151051V0001



MPD13-11B

1SFC151056V0001



MPD15-11B

1SFC151058V0001

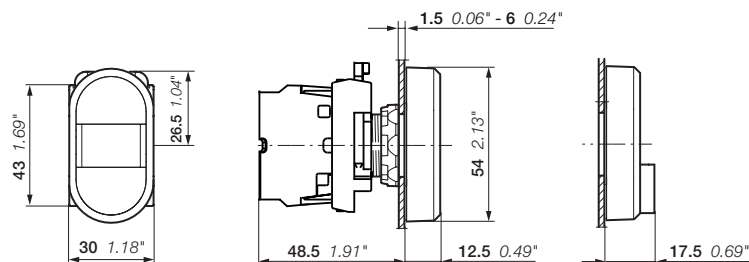


MA1-8139

1SFC151344F0001

Operator upper button	Operator lower button	Type	Order code	Pkg qty	Weight (1 pce) kg
Flush pushbutton					
● Green	● Red				
No text	No text	MPD1-11B	1SFA611130R1106	1	0.025
I	O	MPD2-11B	1SFA611131R1106	1	0.025
ON	OFF	MPD3-11B	1SFA611132R1106	1	0.025
START	STOP	MPD4-11B	1SFA611133R1106	1	0.025
○ White	● Black				
No text	No text	MPD5-11B	1SFA611134R1106	1	0.025
I	O	MPD6-11B	1SFA611135R1106	1	0.025
ON	OFF	MPD7-11B	1SFA611136R1106	1	0.025
START	STOP	MPD8-11B	1SFA611137R1106	1	0.025
● Black	● Red				
No text	No text	MPD9-11B	1SFA611138R1106	1	0.025
Extended lower pushbutton					
● Green	● Red				
No text	No text	MPD12-11B	1SFA611141R1106	1	0.025
I	O	MPD13-11B	1SFA611142R1106	1	0.025
ON	OFF	MPD14-11B	1SFA611143R1106	1	0.025
START	STOP	MPD15-11B	1SFA611144R1106	1	0.025
○ White	● Black				
No text	No text	MPD16-11B	1SFA611145R1106	1	0.025
I	O	MPD17-11B	1SFA611146R1106	1	0.025
ON	OFF	MPD18-11B	1SFA611147R1106	1	0.025
START	STOP	MPD19-11B	1SFA611148R1106	1	0.025
Accessories					
Legend plate holder					
2-position		MA1-8139	1SFA611920R8139	10	0.030

Note: Insert not included. Suitable for insert size 27 x 15 mm. Refer to Legend plates section.



MPD

Dimensions (mm, inches)

Modular plastic range

Illuminated double pushbuttons momentary–Flush lower button



MPD4-11C



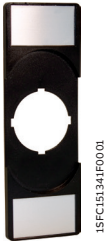
MPD5-11C



MPD2-11R



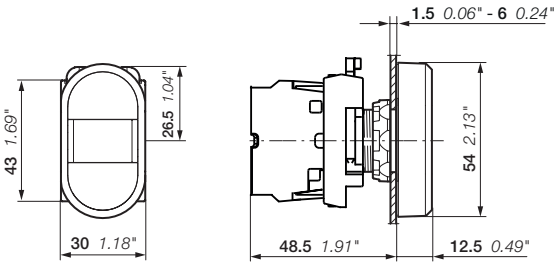
MPD3-11G



MA1-8139

Operator upper button	Operator lower button	Type	Order code	Pkg qty	Weight (1 pce) kg
Clear light indicator					
● Green	● Red				
No text	No text	MPD1-11C	1SFA611130R1108	1	0.025
I	O	MPD2-11C	1SFA611131R1108	1	0.025
ON	OFF	MPD3-11C	1SFA611132R1108	1	0.025
START	STOP	MPD4-11C	1SFA611133R1108	1	0.025
○ White	● Black				
No text	No text	MPD5-11C	1SFA611134R1108	1	0.025
I	O	MPD6-11C	1SFA611135R1108	1	0.025
START	STOP	MPD8-11C	1SFA611137R1108	1	0.025
Red light indicator					
● Green	● Red				
No text	No text	MPD1-11R	1SFA611130R1101	1	0.025
I	O	MPD2-11R	1SFA611131R1101	1	0.025
ON	OFF	MPD3-11R	1SFA611132R1101	1	0.025
START	STOP	MPD4-11R	1SFA611133R1101	1	0.025
○ White	● Black				
No text	No text	MPD5-11R	1SFA611134R1101	1	0.025
Green light indicator					
● Green	● Red				
No text	No text	MPD1-11G	1SFA611130R1102	1	0.025
I	O	MPD2-11G	1SFA611131R1102	1	0.025
ON	OFF	MPD3-11G	1SFA611132R1102	1	0.025
START	STOP	MPD4-11G	1SFA611133R1102	1	0.025
○ White	● Black				
No text	No text	MPD5-11G	1SFA611134R1102	1	0.025
I	O	MPD6-11G	1SFA611135R1102	1	0.025
ON	OFF	MPD7-11G	1SFA611136R1102	1	0.025
START	STOP	MPD8-11G	1SFA611137R1102	1	0.025
Yellow light indicator					
● Green	● Red				
No text	No text	MPD1-11Y	1SFA611130R1103	1	0.025
I	O	MPD2-11Y	1SFA611131R1103	1	0.025
ON	OFF	MPD3-11Y	1SFA611132R1103	1	0.025
START	STOP	MPD4-11Y	1SFA611133R1103	1	0.025
○ White	● Black				
No text	No text	MPD5-11Y	1SFA611134R1103	1	0.025
Accessories					
Legend plate holder					
2-position		MA1-8139	1SFA611920R8139	10	0.030

Note: Insert not included. Suitable for insert size 27 x 15 mm. Refer to Legend plates section.



MPD

Dimensions (mm, inches)

Modular plastic range

Illuminated double pushbuttons momentary–Extended lower button



MDPD12-11C

1SFA611141R1108



MDPD14-11C

1SFA611143R1108



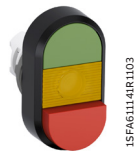
MDPD13-11R

1SFA611142R1101



MDPD14-11G

1SFA611143R1102



MDPD12-11Y

1SFA611141R1103

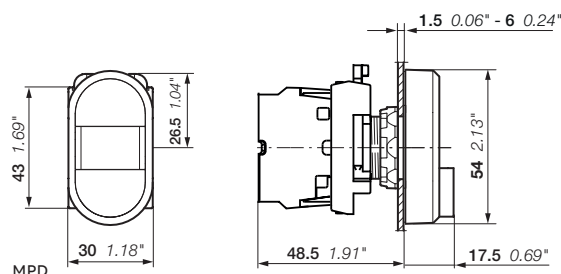


MA1-8139

1SFA611920R8139

Operator upper button	Operator lower button	Type	Order code	Pkg qty	Weight (1 pce) kg
Clear light indicator					
Green	Red				
No text	No text	MPD12-11C	1SFA611141R1108	1	0.025
I	0	MPD13-11C	1SFA611142R1108	1	0.025
ON	OFF	MPD14-11C	1SFA611143R1108	1	0.025
START	STOP	MPD15-11C	1SFA611144R1108	1	0.025
White	Black				
No text	No text	MPD16-11C	1SFA611145R1108	1	0.025
I	0	MPD17-11C	1SFA611146R1108	1	0.025
START	STOP	MPD19-11C	1SFA611148R1108	1	0.025
Red light indicator					
Green	Red				
No text	No text	MPD12-11R	1SFA611141R1101	1	0.025
I	0	MPD13-11R	1SFA611142R1101	1	0.025
ON	OFF	MPD14-11R	1SFA611143R1101	1	0.025
START	STOP	MPD15-11R	1SFA611144R1101	1	0.025
White	Black				
No text	No text	MPD16-11R	1SFA611145R1101	1	0.025
Green light indicator					
Green	Red				
No text	No text	MPD12-11G	1SFA611141R1102	1	0.025
I	0	MPD13-11G	1SFA611142R1102	1	0.025
ON	OFF	MPD14-11G	1SFA611143R1102	1	0.025
START	STOP	MPD15-11G	1SFA611144R1102	1	0.025
White	Black				
No text	No text	MPD16-11G	1SFA611145R1102	1	0.025
I	0	MPD17-11G	1SFA611146R1102	1	0.025
START	STOP	MPD19-11G	1SFA611148R1102	1	0.025
Yellow light indicator					
Green	Red				
No text	No text	MPD12-11Y	1SFA611141R1103	1	0.025
I	0	MPD13-11Y	1SFA611142R1103	1	0.025
ON	OFF	MPD14-11Y	1SFA611143R1103	1	0.025
START	STOP	MPD15-11Y	1SFA611144R1103	1	0.025
White	Black				
No text	No text	MPD16-11Y	1SFA611145R1103	1	0.025
I	0	MPD17-11Y	1SFA611146R1103	1	0.025
Accessories					
Legend plate holder					
2-position		MA1-8139	1SFA611920R8139	10	0.030

Note: Insert not included. Suitable for insert size 27 x 15 mm. Refer to Legend plates section.



Dimensions (mm, inches)

Modular plastic range

Mushroom pushbuttons momentary



1SFC151007V0001

MPM1-10G



1SFC151010V0001

MPM1-10B



1SFC151073V0001

MPM2-10R



1SFC151074V0001

MPM2-10Y



1SFC151173V0001

MPM1-11G



1SFC151155V0001

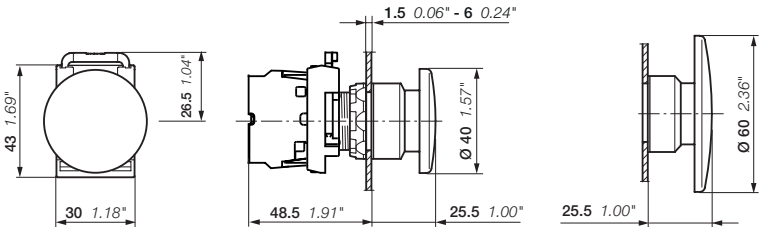
MPM2-11R

Non illuminated

Operator	Type	Order code	Pkg qty	Weight (1 pce) kg
Ø 40 mm				
Red	MPM1-10R	1SFA611124R1001	1	0.018
Green	MPM1-10G	1SFA611124R1002	1	0.018
Yellow	MPM1-10Y	1SFA611124R1003	1	0.018
Black	MPM1-10B	1SFA611124R1006	1	0.018
Ø 60 mm				
Red	MPM2-10R	1SFA611125R1001	1	0.020
Yellow	MPM2-10Y	1SFA611125R1003	1	0.020
Black	MPM2-10B	1SFA611125R1006	1	0.020

Illuminated

Operator	Type	Order code	Pkg qty	Weight (1 pce) kg
Ø 40 mm				
Red	MPM1-11R	1SFA611124R1101	1	0.018
Green	MPM1-11G	1SFA611124R1102	1	0.018
Yellow	MPM1-11Y	1SFA611124R1103	1	0.018
Ø 60 mm				
Red	MPM2-11R	1SFA611125R1101	1	0.020
Yellow	MPM2-11Y	1SFA611125R1103	1	0.020

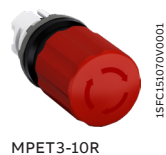


MPM1, MPM2

Dimensions (mm, inches)

Modular plastic range

Emergency stop pushbuttons



MPET3-10R

1SFC151070V0001



MPEK3-11R

1SFC15108V0001



MPET4-10R

1SFC15109V0001



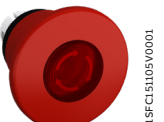
MPMP4-10R

1SFC15106V0001



MPMP3-11R

1SFC15103V0001



MPMT4-11R

1SFC15105V0001

Non illuminated

The emergency stops pushbuttons conform to the standard EN/IEC 60947-5-5, Safety of machinery EN/ISO 13850, IEC 60204-1 and to Machinery directive 2006/42/EC.

Operator	Release method	Type	Order code	Pkg qty	Weight (1 pce) kg
Ø 30 mm					
● Red	Twist release	MPET3-10R	1SFA611520R1001	1	0.036
● Red	Pull release	MPEP3-10R	1SFA611521R1001	1	0.036
● Red	Key code 455	MPEK3-11R	1SFA611522R1101	1	0.065
● Red	Key code 421	MPEK3-12R	1SFA611522R1201	1	0.065
● Red	Key code 3433-E	MPEK3-13R	1SFA611522R1301	1	0.065

Ø 40 mm

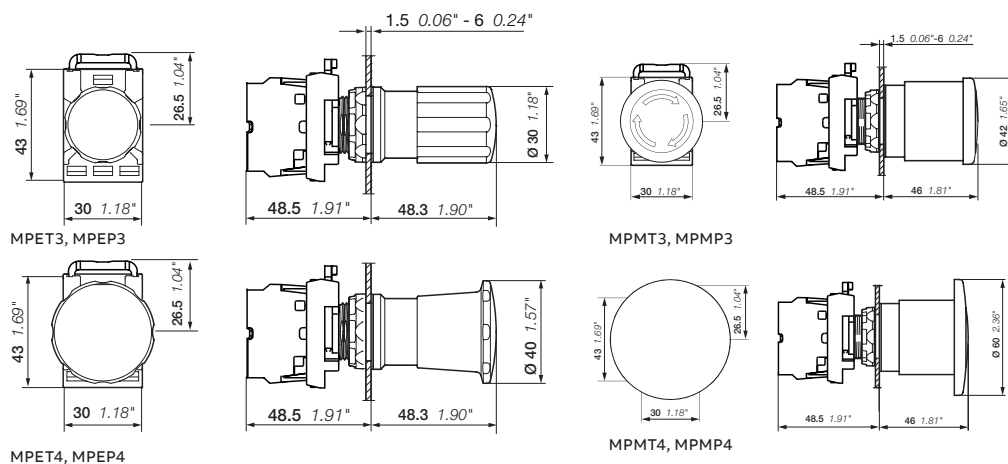
● Red	Twist release	MPET4-10R	1SFA611523R1001	1	0.036
● Red	Pull release	MPEP4-10R	1SFA611524R1001	1	0.036
● Red	Key code 455	MPEK4-11R	1SFA611525R1101	1	0.065
● Red	Key code 421	MPEK4-12R	1SFA611525R1201	1	0.065
● Red	Key code 3433-E	MPEK4-13R	1SFA611525R1301	1	0.065

Ø 60 mm

● Red	Twist release	MPMT4-10R	1SFA611513R1001	1	0.048
● Red	Pull release	MPMP4-10R	1SFA611514R1001	1	0.048

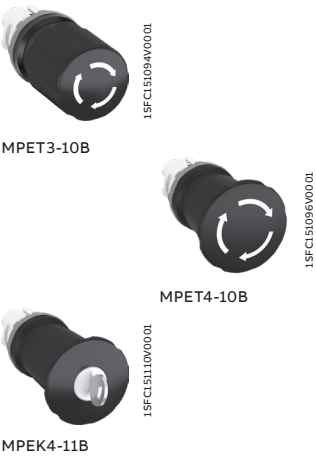
Illuminated

Operator	Release method	Type	Order code	Pkg qty	Weight (1 pce) kg
Ø 40 mm					
● Red	Twist release	MPMT3-11R	1SFA611510R1101	1	0.041
● Red	Pull release	MPMP3-11R	1SFA611511R1101	1	0.041
Ø 60 mm					
● Red	Twist release	MPMT4-11R	1SFA611513R1101	1	0.048
● Red	Pull release	MPMP4-11R	1SFA611514R1101	1	0.048



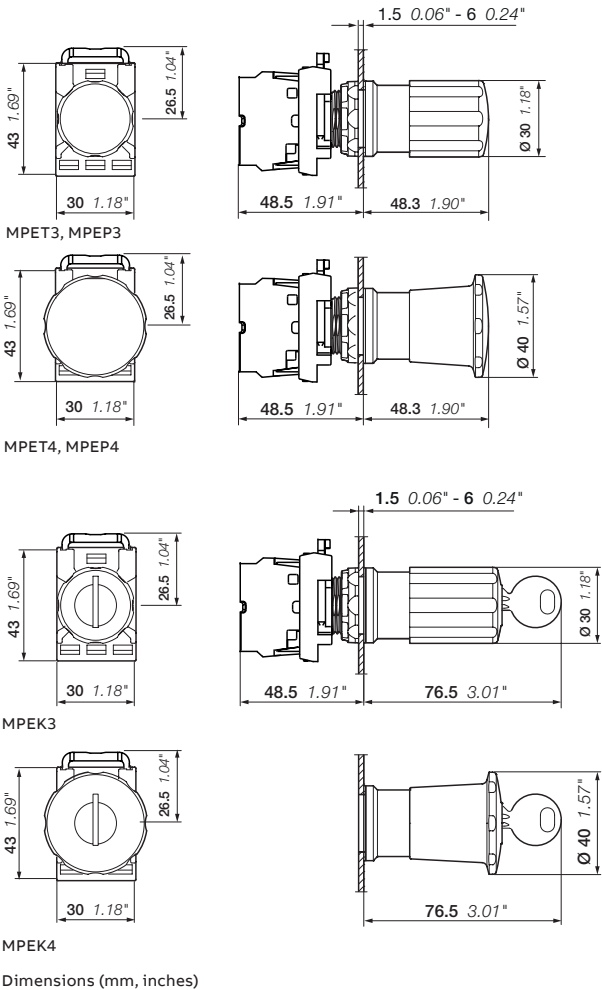
Dimensions (mm, inches)

Modular plastic range
Machine stop pushbuttons



Non illuminated

Operator	Release method	Type	Order code	Pkg qty	Weight (1 pce) kg
Ø 30 mm					
● Black	Twist release	MPET3-10B	1SFA611520R1006	1	0.036
● Black	Pull release	MPEP3-10B	1SFA611521R1006	1	0.036
● Black	Key code 455	MPEK3-11B	1SFA611522R1106	1	0.065
Ø 40 mm					
● Black	Twist release	MPET4-10B	1SFA611523R1006	1	0.036
● Black	Pull release	MPEP4-10B	1SFA611524R1006	1	0.036
● Black	Key code 455	MPEK4-11B	1SFA611525R1106	1	0.065



Modular plastic range

Heavy duty pushbuttons



KP6-40R

1SFC151335V0001



KP6-40G

1SFC151336V0001



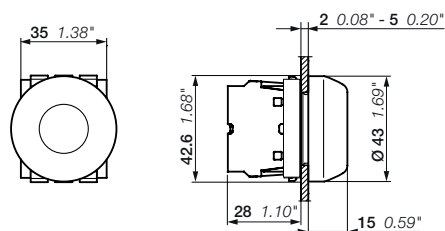
KP6-40B

1SFC151337V0001

Description

For 30 mm mounting hole, 3-position holder included

Color	Type	Order code	Pkg qty	Weight (1 pce) kg
● Red	KP6-40R	1SFA616105R4001	1	0.028
● Green	KP6-40G	1SFA616105R4002	1	0.028
● Black	KP6-40B	1SFA616105R4006	1	0.028



KP6

Modular plastic range

Pilot lights



ML1-100R

1SFC151134V0001



ML1-100G

1SFC151135V0001



ML1-100Y

1SFC151136V0001



ML1-100C

1SFC151138V0001



ML1-100L

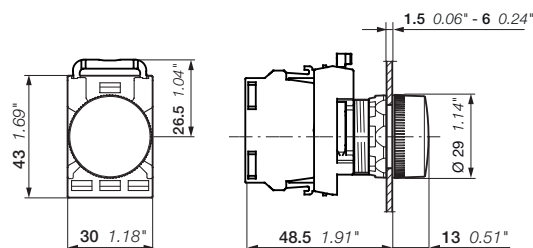
1SFC151137V0001

Color	Type	Order code	Pkg qty	Weight (1 pce) kg
● Red	ML1-100R	1SFA611400R1001	1	0.018
● Green	ML1-100G	1SFA611400R1002	1	0.018
● Yellow	ML1-100Y	1SFA611400R1003	1	0.018
● Blue	ML1-100L	1SFA611400R1004	1	0.018
○ White	ML1-100W	1SFA611400R1005	1	0.018
○ Clear	ML1-100C	1SFA611400R1008	1	0.018

Lens

Light diffusing lens	KA1-8005	1SFA616920R8005	10	0.001
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Note: Light diffusing lens is used to improve spread of illumination from LED blocks. Cannot be used together with text cap.



ML1

Dimensions (mm, inches)

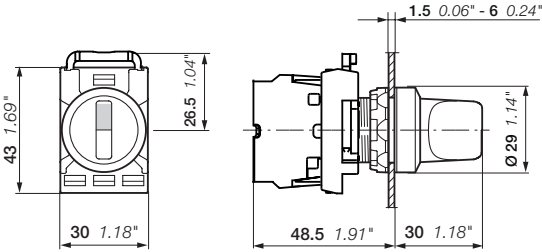
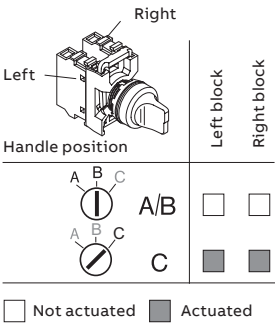
Modular plastic range

Non-illuminated selector switches–2-position–Short handle



Operating principle	Color	Bezel	Type	Order code	Pkg qty	Weight (1 pce) kg
	● Red	Black plastic	M2SS1-10R	1SFA611200R1001	1	0.015
		Chrome metal	M2SS1-30R	1SFA611200R3001	1	0.024
	● Black	Black plastic	M2SS1-10B	1SFA611200R1006	1	0.015
		Chrome metal	M2SS1-30B	1SFA611200R3006	1	0.024
	● Grey	Black plastic	M2SS1-10U	1SFA611200R1007	1	0.015
	● Red	Black plastic	M2SS2-10R	1SFA611201R1001	1	0.015
		Chrome metal	M2SS2-30R	1SFA611201R3001	1	0.024
	● Black	Black plastic	M2SS2-10B	1SFA611201R1006	1	0.015
		Chrome metal	M2SS2-30B	1SFA611201R3006	1	0.024
	● Grey	Black plastic	M2SS2-10U	1SFA611201R1007	1	0.015
		Chrome metal	M2SS2-30U	1SFA611201R3007	1	0.024
		● Red	Black plastic	M2SS3-10R	1SFA611202R1001	1
Chrome metal			M2SS3-30R	1SFA611202R3001	1	0.024
● Black		Black plastic	M2SS3-10B	1SFA611202R1006	1	0.015
		Chrome metal	M2SS3-30B	1SFA611202R3006	1	0.024
● Grey		Black plastic	M2SS3-10U	1SFA611202R1007	1	0.015

Contacts actuated



M2SS
Dimensions (mm, inches)

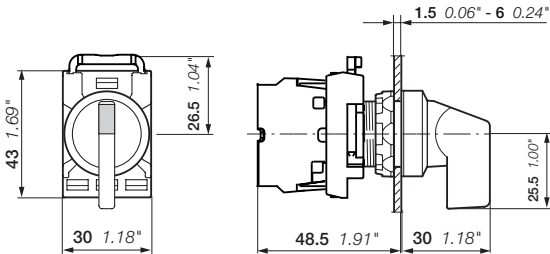
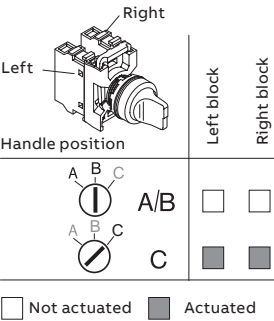
Modular plastic range

Non-illuminated selector switches–2-position–Long handle



Operating principle	Color	Bezel	Type	Order code	Pkg qty	Weight (1 pce) kg
	● Red	Black plastic	M2SS4-10R	1SFA611203R1001	1	0.018
	● Black	Black plastic	M2SS4-10B	1SFA611203R1006	1	0.018
		Chrome metal	M2SS4-30B	1SFA611203R3006	1	0.027
	● Grey	Black plastic	M2SS4-10U	1SFA611203R1007	1	0.018
	● Red	Black plastic	M2SS5-10R	1SFA611204R1001	1	0.018
		Chrome metal	M2SS5-30R	1SFA611204R3001	1	0.027
	● Black	Black plastic	M2SS5-10B	1SFA611204R1006	1	0.018
		Chrome metal	M2SS5-30B	1SFA611204R3006	1	0.027
	● Red	Black plastic	M2SS6-10R	1SFA611205R1001	1	0.018
	● Black	Black plastic	M2SS6-10B	1SFA611205R1006	1	0.018
		Chrome metal	M2SS6-30B	1SFA611205R3006	1	0.027
	● Grey	Black plastic	M2SS6-10U	1SFA611205R1007	1	0.018

Contacts actuated



M2SS
Dimensions (mm, inches)

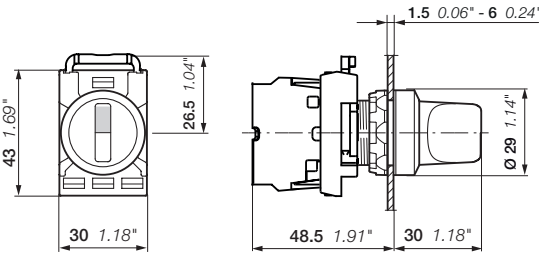
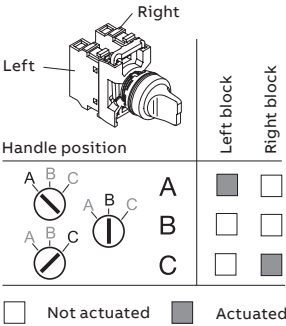
Modular plastic range

Non-illuminated selector switches–3-position–Short handle



Operating principle	Color	Bezel	Type	Order code	Pkg qty	Weight (1 pce) kg
	● Red	Black plastic	M3SS1-10R	1SFA611210R1001	1	0.015
		Chrome metal	M3SS1-30R	1SFA611210R3001	1	0.024
	● Black	Black plastic	M3SS1-10B	1SFA611210R1006	1	0.015
		Chrome metal	M3SS1-30B	1SFA611210R3006	1	0.024
	● Grey	Black plastic	M3SS1-10U	1SFA611210R1007	1	0.015
		Chrome metal	M3SS1-30U	1SFA611210R3007	1	0.024
	● Red	Black plastic	M3SS2-10R	1SFA611211R1001	1	0.015
		Chrome metal	M3SS2-30R	1SFA611211R3001	1	0.024
	● Black	Black plastic	M3SS2-10B	1SFA611211R1006	1	0.015
		Chrome metal	M3SS2-30B	1SFA611211R3006	1	0.024
	● Grey	Black plastic	M3SS2-10U	1SFA611211R1007	1	0.015
		Chrome metal	M3SS2-30U	1SFA611211R3007	1	0.024
	● Red	Black plastic	M3SS3-10R	1SFA611212R1001	1	0.015
		Chrome metal	M3SS3-30R	1SFA611212R3006	1	0.024
	● Black	Black plastic	M3SS3-10B	1SFA611212R1006	1	0.015
		Chrome metal	M3SS3-30B	1SFA611212R3006	1	0.024
	● Grey	Black plastic	M3SS3-10U	1SFA611212R1007	1	0.015
		Chrome metal	M3SS3-30U	1SFA611212R3007	1	0.024
	● Red	Black plastic	M3SS7-10R	1SFA611216R1001	1	0.015
		Chrome metal	M3SS7-30R	1SFA611216R3006	1	0.024
	● Black	Black plastic	M3SS7-10B	1SFA611216R1006	1	0.015
		Chrome metal	M3SS7-30B	1SFA611216R3006	1	0.024
	● Grey	Black plastic	M3SS7-10U	1SFA611216R1007	1	0.015
		Chrome metal	M3SS7-30U	1SFA611216R3007	1	0.024

Contacts actuated



M3SS
Dimensions (mm, inches)

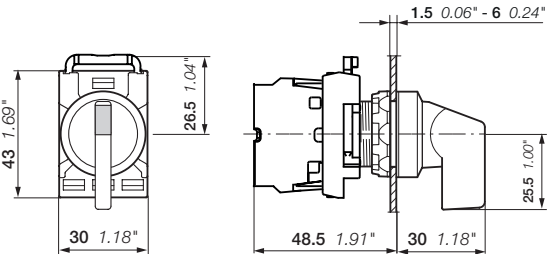
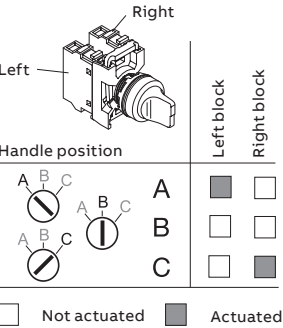
Modular plastic range

Non-illuminated selector switches–3-position–Long handle



Operating principle	Color	Bezel	Type	Order code	Pkg qty	Weight (1 pce) kg
	● Red	Black plastic	M3SS4-10R	1SFA611213R1001	1	0.018
	● Black	Black plastic	M3SS4-10B	1SFA611213R1006	1	0.018
		Chrome metal	M3SS4-30B	1SFA611213R3006	1	0.027
	● Grey	Black plastic	M3SS4-10U	1SFA611213R1007	1	0.018
	● Red	Black plastic	M3SS5-10R	1SFA611214R1001	1	0.018
		Chrome metal	M3SS5-30R	1SFA611214R3001	1	0.018
	● Black	Black plastic	M3SS5-10B	1SFA611214R1006	1	0.018
		Chrome metal	M3SS5-30B	1SFA611214R3006	1	0.027
	● Grey	Black plastic	M3SS5-10U	1SFA611214R1007	1	0.018
	● Red	Black plastic	M3SS6-10R	1SFA611215R1001	1	0.018
	● Black	Black plastic	M3SS6-10B	1SFA611215R1006	1	0.018
		Chrome metal	M3SS6-30B	1SFA611215R3006	1	0.027
	● Grey	Black plastic	M3SS6-10U	1SFA611215R1007	1	0.018
	● Red	Black plastic	M3SS8-10R	1SFA611217R1001	1	0.018
	● Black	Black plastic	M3SS8-10B	1SFA611217R1006	1	0.018
		Chrome metal	M3SS8-30B	1SFA611217R3006	1	0.027
	● Grey	Black plastic	M3SS8-10U	1SFA611217R1007	1	0.018

Contacts actuated



M3SS

Dimensions (mm, inches)

Modular plastic range

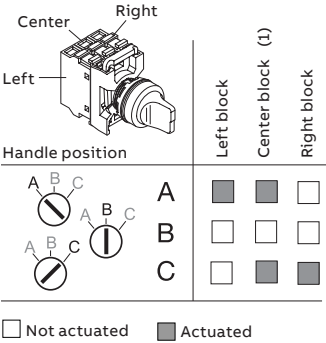
Non-illuminated selector switches–3-position–Short handle



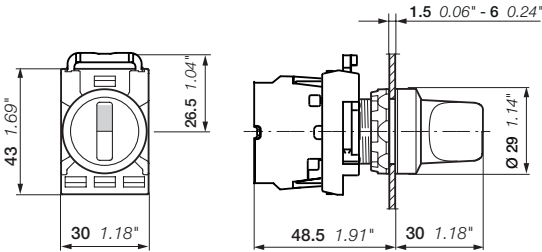
Center block operating

Operating principle	Color	Bezel	Type	Order code	Pkg qty	Weight (1 pce) kg
	● Black	Black plastic	M3SSC1-10B	1SFA611250R1006	1	0.015
		Chrome metal	M3SSC1-30B	1SFA611250R3006	1	0.024
	● Black	Black plastic	M3SSC2-10B	1SFA611251R1006	1	0.015
		Chrome metal	M3SSC2-30B	1SFA611251R3006	1	0.024
	● Black	Black plastic	M3SSC3-10B	1SFA611252R1006	1	0.015
		Chrome metal	M3SSC3-30B	1SFA611252R3006	1	0.024
	● Black	Black plastic	M3SSC7-10B	1SFA611256R1006	1	0.015
		Chrome metal	M3SSC7-30B	1SFA611256R3006	1	0.024

Contacts actuated



(1) To connect 3 separate circuits, one to each position ABC, use 1 NO in left position and right position and 1 NC in center position.

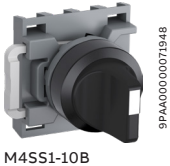


M3SSC

Dimensions (mm, inches)

Modular range

Non-illuminated selector switches–4-position



M4SS1-10B

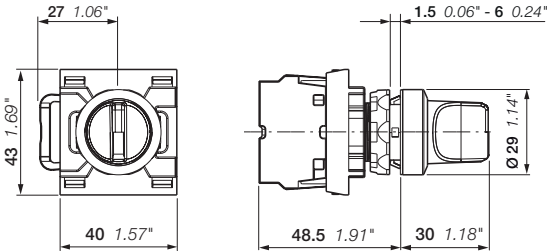
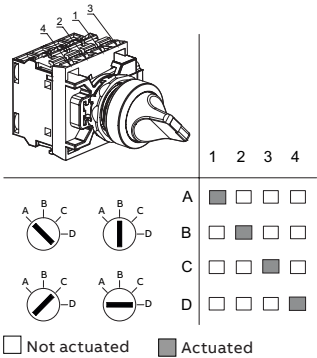


M4SS2-30R

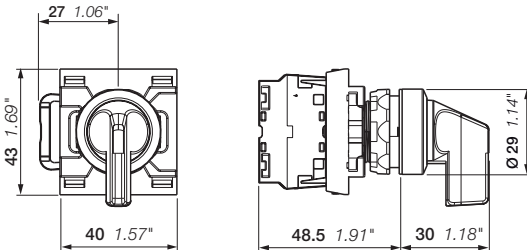
4 position holder included. Contact blocks need to order separately.

Operating principle	Color	Bezel	Type	Order code	Pkg qty	Weight (1 pce) kg
Short handle						
	● Red	Black plastic	M4SS1-10R	1SFA611290R4001	1	0.027
		Chrome metal	M4SS1-30R	1SFA611290R6001	1	0.036
	● Black	Black plastic	M4SS1-10B	1SFA611290R4006	1	0.027
		Chrome metal	M4SS1-30B	1SFA611290R6006	1	0.036
Long handle						
	● Red	Black plastic	M4SS2-10R	1SFA611291R4001	1	0.030
		Chrome metal	M4SS2-30R	1SFA611291R6001	1	0.039
	● Black	Black plastic	M4SS2-10B	1SFA611291R4006	1	0.030
		Chrome metal	M4SS2-30B	1SFA611291R6006	1	0.039

Contacts actuated



M4SS Short handle



M4SS Long handle

Dimensions (mm, inches)

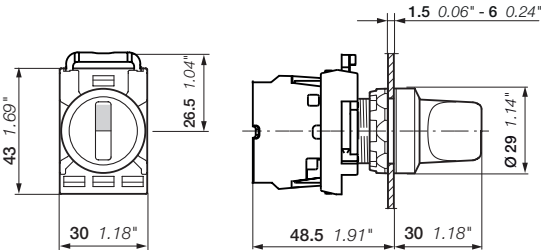
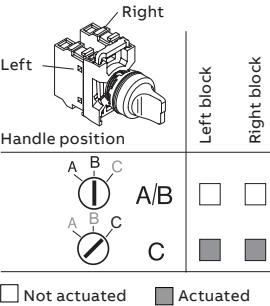
Modular plastic range

Illuminated selector switches–2-position–Short handle



Operating principle	Color	Bezel	Type	Order code	Pkg qty	Weight (1 pce) kg
	Red	Black plastic	M2SS1-11R	1SFA611200R1101	1	0.015
		Chrome metal	M2SS1-31R	1SFA611200R3101	1	0.024
	Green	Black plastic	M2SS1-11G	1SFA611200R1102	1	0.015
		Chrome metal	M2SS1-31G	1SFA611200R3102	1	0.024
	Yellow	Black plastic	M2SS1-11Y	1SFA611200R1103	1	0.015
		Chrome metal	M2SS1-31Y	1SFA611200R3103	1	0.024
	Blue	Black plastic	M2SS1-11L	1SFA611200R1104	1	0.015
		Chrome metal	M2SS1-11C	1SFA611200R1108	1	0.015
	Clear	Black plastic	M2SS1-31C	1SFA611200R3108	1	0.024
		Chrome metal	M2SS2-11R	1SFA611201R1101	1	0.015
	Green	Black plastic	M2SS2-11G	1SFA611201R1102	1	0.015
		Chrome metal	M2SS2-31G	1SFA611201R3102	1	0.024
	Yellow	Black plastic	M2SS2-11Y	1SFA611201R1103	1	0.015
		Chrome metal	M2SS2-31Y	1SFA611201R3103	1	0.024
	Blue	Black plastic	M2SS2-11L	1SFA611201R1104	1	0.015
		Chrome metal	M2SS2-31L	1SFA611201R3104	1	0.024
	Clear	Black plastic	M2SS2-11C	1SFA611201R1108	1	0.015
		Chrome metal	M2SS2-31C	1SFA611201R3108	1	0.024
	Red	Black plastic	M2SS3-11R	1SFA611202R1101	1	0.015
		Chrome metal	M2SS3-31R	1SFA611202R3101	1	0.024
	Green	Black plastic	M2SS3-11G	1SFA611202R1102	1	0.015
		Chrome metal	M2SS3-31G	1SFA611202R3102	1	0.024
	Yellow	Black plastic	M2SS3-11Y	1SFA611202R1103	1	0.015
		Chrome metal	M2SS3-31Y	1SFA611202R3103	1	0.024
	Blue	Black plastic	M2SS3-11L	1SFA611202R1104	1	0.015
		Chrome metal	M2SS3-11C	1SFA611202R1108	1	0.015
	Clear	Black plastic	M2SS3-31C	1SFA611202R3108	1	0.024

Contacts actuated



M2SS

Dimensions (mm, inches)

Modular plastic range

Illuminated selector switches–2-position–Long handle



M2SS4-11R



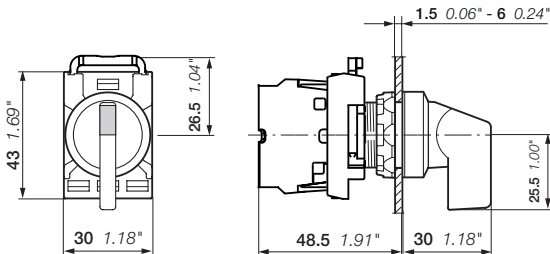
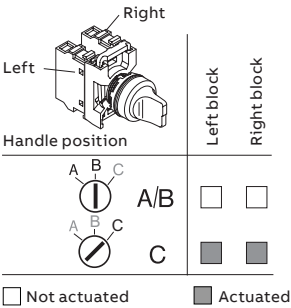
M2SS4-31G



M2SS5-11Y

Operating principle	Color	Bezel	Type	Order code	Pkg qty	Weight (1 pce) kg
	Red	Black plastic	M2SS4-11R	1SFA611203R1101	1	0.018
	Green	Black plastic	M2SS4-11G	1SFA611203R1102	1	0.018
		Chrome metal	M2SS4-31G	1SFA611203R3102	1	0.027
	Yellow	Black plastic	M2SS4-11Y	1SFA611203R1103	1	0.018
	Blue	Black plastic	M2SS4-11L	1SFA611203R1104	1	0.018
	Clear	Black plastic	M2SS4-11C	1SFA611203R1108	1	0.018
		Chrome metal	M2SS4-31C	1SFA611203R3108	1	0.027
	Red	Black plastic	M2SS5-11R	1SFA611204R1101	1	0.018
		Chrome metal	M2SS5-31R	1SFA611204R3101	1	0.027
	Green	Black plastic	M2SS5-11G	1SFA611204R1102	1	0.018
		Chrome metal	M2SS5-31G	1SFA611204R3102	1	0.027
	Yellow	Black plastic	M2SS5-11Y	1SFA611204R1103	1	0.018
		Chrome metal	M2SS5-31Y	1SFA611204R3103	1	0.027
	Blue	Black plastic	M2SS5-11L	1SFA611204R1104	1	0.018
		Chrome metal	M2SS5-31L	1SFA611204R3104	1	0.027
	Clear	Black plastic	M2SS5-11C	1SFA611204R1108	1	0.018
		Chrome metal	M2SS5-31C	1SFA611204R3108	1	0.027
	Red	Black plastic	M2SS6-11R	1SFA611205R1101	1	0.018
	Green	Black plastic	M2SS6-11G	1SFA611205R1102	1	0.018
	Yellow	Black plastic	M2SS6-11Y	1SFA611205R1103	1	0.018
	Blue	Black plastic	M2SS6-11L	1SFA611205R1104	1	0.018
	Clear	Black plastic	M2SS6-11C	1SFA611205R1108	1	0.018
		Chrome metal	M2SS6-31C	1SFA611205R3108	1	0.027

Contacts actuated



M2SS

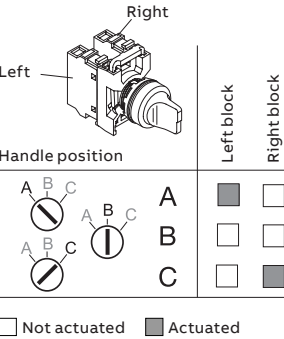
Dimensions (mm, inches)

Modular plastic range

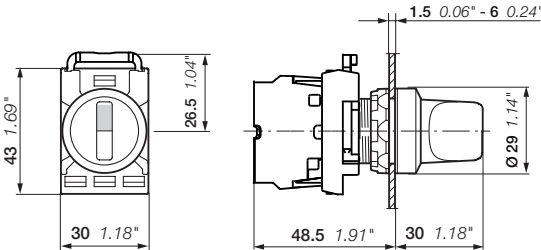
Illuminated selector switches–3-position–Short handle



Contacts actuated



Operating principle	Color	Bezel	Type	Order code	Pkg qty	Weight (1 pce) kg
	Red	Black plastic	M3SS1-11R	1SFA611210R1101	1	0.015
		Chrome metal	M3SS1-31R	1SFA611210R3101	1	0.024
	Green	Black plastic	M3SS1-11G	1SFA611210R1102	1	0.015
		Chrome metal	M3SS1-31G	1SFA611210R3102	1	0.024
	Yellow	Black plastic	M3SS1-11Y	1SFA611210R1103	1	0.015
		Chrome metal	M3SS1-31Y	1SFA611210R3103	1	0.024
	Blue	Black plastic	M3SS1-11L	1SFA611210R1104	1	0.015
		Chrome metal	M3SS1-31L	1SFA611210R3104	1	0.024
	o Clear	Black plastic	M3SS1-11C	1SFA611210R1108	1	0.015
		Chrome metal	M3SS1-31C	1SFA611210R3108	1	0.024
	Red	Black plastic	M3SS2-11R	1SFA611211R1101	1	0.015
		Chrome metal	M3SS2-31R	1SFA611211R3101	1	0.024
	Green	Black plastic	M3SS2-11G	1SFA611211R1102	1	0.015
		Chrome metal	M3SS2-31G	1SFA611211R3102	1	0.024
	Yellow	Black plastic	M3SS2-11Y	1SFA611211R1103	1	0.015
	Blue	Black plastic	M3SS2-11L	1SFA611211R1104	1	0.015
		Chrome metal	M3SS2-31L	1SFA611211R3104	1	0.024
	o Clear	Black plastic	M3SS2-11C	1SFA611211R1108	1	0.015
		Chrome metal	M3SS2-31C	1SFA611211R3108	1	0.024
	Red	Black plastic	M3SS3-11R	1SFA611212R1101	1	0.015
	Green	Black plastic	M3SS3-11G	1SFA611212R1102	1	0.015
	Yellow	Black plastic	M3SS3-11Y	1SFA611212R1103	1	0.015
	Blue	Black plastic	M3SS3-11L	1SFA611212R1104	1	0.015
	o Clear	Black plastic	M3SS3-11C	1SFA611212R1108	1	0.015
		Chrome metal	M3SS3-31C	1SFA611212R3108	1	0.024
	Red	Black plastic	M3SS7-11R	1SFA611216R1101	1	0.015
	Green	Black plastic	M3SS7-11G	1SFA611216R1102	1	0.015
		Chrome metal	M3SS7-31G	1SFA611216R3102	1	0.024
	Yellow	Black plastic	M3SS7-11Y	1SFA611216R1103	1	0.015
	Blue	Black plastic	M3SS7-11L	1SFA611216R1104	1	0.015
	o Clear	Black plastic	M3SS7-11C	1SFA611216R1108	1	0.015
		Chrome metal	M3SS7-31C	1SFA611216R3108	1	0.024



M3SS

Dimensions (mm, inches)

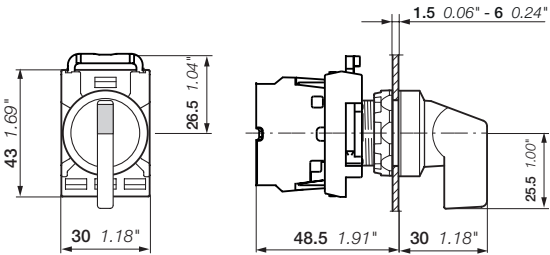
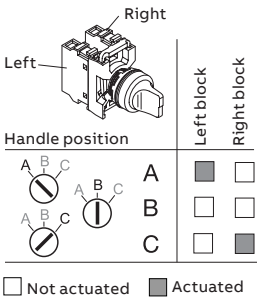
Modular plastic range

Illuminated selector switches–3-position–Long handle



Operating principle	Color	Bezel	Type	Order code	Pkg qty	Weight (1 pce) kg
	Red	Black plastic	M3SS4-11R	1SFA611213R1101	1	0.018
		Chrome metal	M3SS4-31R	1SFA611213R3101	1	0.027
	Green	Black plastic	M3SS4-11G	1SFA611213R1102	1	0.018
	Yellow	Black plastic	M3SS4-11Y	1SFA611213R1103	1	0.018
	Blue	Black plastic	M3SS4-11L	1SFA611213R1104	1	0.018
	Clear	Black plastic	M3SS4-11C	1SFA611213R1108	1	0.018
		Chrome metal	M3SS4-31C	1SFA611213R3108	1	0.027
	Red	Black plastic	M3SS5-11R	1SFA611214R1101	1	0.018
	Green	Black plastic	M3SS5-11G	1SFA611214R1102	1	0.018
		Chrome metal	M3SS5-31G	1SFA611214R3102	1	0.027
	Yellow	Black plastic	M3SS5-11Y	1SFA611214R1103	1	0.018
	Blue	Black plastic	M3SS5-11L	1SFA611214R1104	1	0.018
	Clear	Black plastic	M3SS5-11C	1SFA611214R1108	1	0.018
		Chrome metal	M3SS5-31C	1SFA611214R3108	1	0.027
	Red	Black plastic	M3SS6-11R	1SFA611215R1101	1	0.018
	Green	Black plastic	M3SS6-11G	1SFA611215R1102	1	0.018
	Yellow	Black plastic	M3SS6-11Y	1SFA611215R1103	1	0.018
	Blue	Black plastic	M3SS6-11L	1SFA611215R1104	1	0.018
	Clear	Black plastic	M3SS6-11C	1SFA611215R1108	1	0.018
		Chrome metal	M3SS6-31C	1SFA611215R3108	1	0.027
	Red	Black plastic	M3SS8-11R	1SFA611217R1101	1	0.018
		Chrome metal	M3SS8-31R	1SFA611217R3101	1	0.027
	Green	Black plastic	M3SS8-11G	1SFA611217R1102	1	0.018
		Chrome metal	M3SS8-31G	1SFA611217R3102	1	0.027
	Yellow	Black plastic	M3SS8-11Y	1SFA611217R1103	1	0.018
	Blue	Black plastic	M3SS8-11L	1SFA611217R1104	1	0.018
	Clear	Black plastic	M3SS8-11C	1SFA611217R1108	1	0.018

Contacts actuated

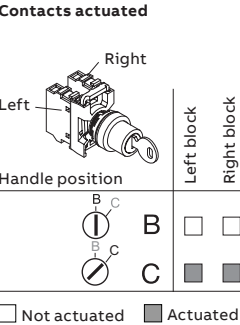


M3SS

Dimensions (mm, inches)

Modular plastic range

Key-operated selector switches–2-position

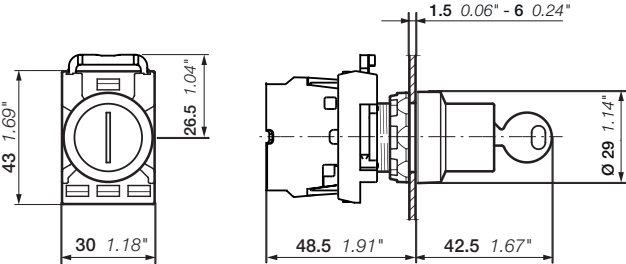


Description

Key-operated selector switches are delivered in black color.

Operating principle	Key	Bezel	Type	Order code	Pkg qty	Weight (1 pce) kg
 Key can be removed in both positions	Key code 455	Black plastic	M2SSK1-101	1SFA611280R1001	1	0.045
		Chrome metal	M2SSK1-301	1SFA611280R3001	1	0.054
	Key code 421	Black plastic	M2SSK1-102	1SFA611280R1002	1	0.045
		Chrome metal	M2SSK1-302	1SFA611280R3002	1	0.054
	Key code 3433-E	Black plastic	M2SSK1-103	1SFA611280R1003	1	0.045
		Chrome metal	M2SSK1-303	1SFA611280R3003	1	0.054
	Random selection (1)	Black plastic	M2SSK1-104	1SFA611280R1004	25	0.045
		Chrome metal	M2SSK1-304	1SFA611280R3004	25	0.054
 Key can be removed in B position only	Key code 455	Black plastic	M2SSK2-101	1SFA611281R1001	1	0.045
		Chrome metal	M2SSK2-301	1SFA611281R3001	1	0.054
	Key code 421	Black plastic	M2SSK2-102	1SFA611281R1002	1	0.045
		Chrome metal	M2SSK2-302	1SFA611281R3002	1	0.054
	Key code 3433-E	Black plastic	M2SSK2-103	1SFA611281R1003	1	0.045
		Chrome metal	M2SSK2-303	1SFA611281R3003	1	0.054
	Random selection (1)	Black plastic	M2SSK2-104	1SFA611281R1004	25	0.045
		Chrome metal	M2SSK2-304	1SFA611281R3004	25	0.054
 Key can be removed in position B only	Key code 455	Black plastic	M2SSK3-101	1SFA611282R1001	1	0.045
		Chrome metal	M2SSK3-301	1SFA611282R3001	1	0.054
	Key code 421	Black plastic	M2SSK3-102	1SFA611282R1002	1	0.045
		Chrome metal	M2SSK3-302	1SFA611282R3002	1	0.054
	Key code 3433-E	Black plastic	M2SSK3-103	1SFA611282R1003	1	0.045
		Chrome metal	M2SSK3-303	1SFA611282R3003	1	0.054
	Random selection (1)	Black plastic	M2SSK3-104	1SFA611282R1004	25	0.045
		Chrome metal	M2SSK3-304	1SFA611282R3004	25	0.054
 Key can be removed in A only	Key code 455	Black plastic	M2SSK4-101	1SFA611289R1001	1	0.045

(1) The order code includes 25 keys operated selector switches. Each selector switch includes unique key code. Key codes 455, 421 and 3433-E not included.



M2SSK

Dimensions (mm, inches)

Modular plastic range

Key-operated selector switches–3-position



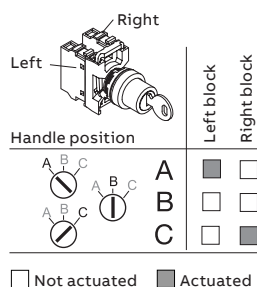
M2SSK1-101

Description

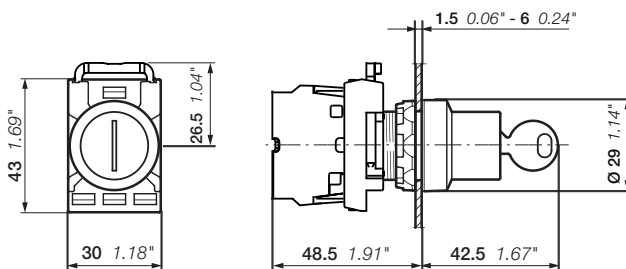
Key-operated selector switches are delivered in black color.

Operating principle	key	Bezel	Type	Order code	Pkg qty	Weight (1 pce) kg
 Key can be removed in all positions	Key code 455	Black plastic	M3SSK1-101	1SFA611283R1001	1	0.045
		Chrome metal	M3SSK1-301	1SFA611283R3001	1	0.054
	Key code 421	Black plastic	M3SSK1-102	1SFA611283R1002	1	0.045
		Chrome metal	M3SSK1-302	1SFA611283R3002	1	0.054
	Key code 3433-E	Black plastic	M3SSK1-103	1SFA611283R1003	1	0.045
		Chrome metal	M3SSK1-303	1SFA611283R3003	1	0.054
 Key can be removed in position B only	Random selection (1)	Black plastic	M3SSK1-104	1SFA611283R1004	25	0.045
		Chrome metal	M3SSK1-304	1SFA611283R3004	25	0.054
	Key code 455	Black plastic	M3SSK2-101	1SFA611284R1001	1	0.045
		Chrome metal	M3SSK2-301	1SFA611284R3001	1	0.054
	Key code 421	Black plastic	M3SSK2-102	1SFA611284R1002	1	0.045
	Key code 3433-E	Black plastic	M3SSK2-103	1SFA611284R1003	1	0.045
 Key can be removed in position B only	Random selection (1)	Black plastic	M3SSK2-104	1SFA611284R1004	25	0.045
	Key code 455	Black plastic	M3SSK3-101	1SFA611285R1001	1	0.045
		Chrome metal	M3SSK3-301	1SFA611285R3001	1	0.054
	Key code 421	Black plastic	M3SSK3-102	1SFA611285R1002	1	0.045
		Chrome metal	M3SSK3-302	1SFA611285R3002	1	0.054
	Key code 3433-E	Black plastic	M3SSK3-103	1SFA611285R1003	1	0.045
 Key can be removed in position B only		Chrome metal	M3SSK3-303	1SFA611285R3003	1	0.054
	Random selection (1)	Black plastic	M3SSK3-104	1SFA611285R1004	25	0.045
	Key code 455	Black plastic	M3SSK4-101	1SFA611286R1001	1	0.045
		Chrome metal	M3SSK4-301	1SFA611286R3001	1	0.054
	Key code 421	Black plastic	M3SSK4-102	1SFA611286R1002	1	0.045
		Chrome metal	M3SSK4-302	1SFA611286R3002	1	0.054
 Key can be removed in position A only	Key code 455	Black plastic	M3SSK5-101	1SFA611287R1001	1	0.045
		Chrome metal	M3SSK5-301	1SFA611287R3001	1	0.054
	Key code 3433-E	Black plastic	M3SSK5-103	1SFA611287R1003	1	0.045
 Key can be removed in all positions						
	Key code 455	Black plastic	M3SSK6-101	1SFA611288R1001	1	0.045

Contacts actuated



(1) The order code includes 25 key operated selector switches. Each selector switch includes unique key code. Key codes 455, 421 and 3433-E not included.



M3SSK

Dimensions (mm, inches)

Modular plastic range

Potentiometers

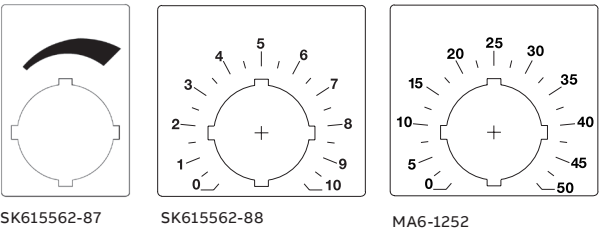
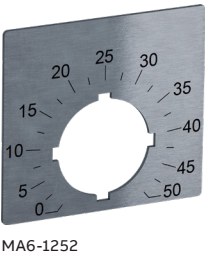


Description

Black knob with integrated position indication and marking in white.

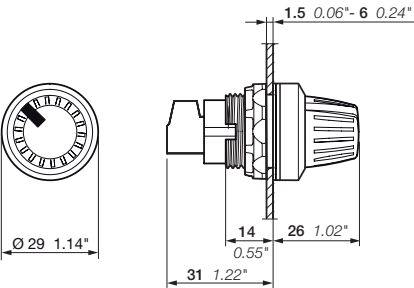
Bezel	Type	Order code	Pkg qty	Weight (1 pce) kg
Knob with resistor 5 kΩ				
Black plastic	MT-105B	1SFA611410R1056	1	0.040
Chrome metal	MT-305B	1SFA611410R3056	1	0.049
Knob with resistor 10 kΩ				
Black plastic	MT-110B	1SFA611410R1106	1	0.040
Chrome metal	MT-310B	1SFA611410R3106	1	0.048
Knob with resistor 50 kΩ				
Black plastic	MT-150B	1SFA611410R1506	1	0.040
Chrome metal	MT-350B	1SFA611410R3506	1	0.049
Knob without resistor (1)				
Black plastic	MT-1B	1SFA611410R1006	10	0.022
Chrome metal	MT-3B	1SFA611410R3006	10	0.030
Legend plates aluminum				
29.6 x 44.5 mm	Ø 22 mm	–	SK615562-87	10 0.002
48.5 x 44.5 mm, scale: 0-10	Ø 22 mm	–	SK615562-88	10 0.002
48.5 x 44.5 mm, scale: 0-50	Ø 22 mm	MA6-1252	1SFA611930R1252	10 0.002

(1) Knob without resistor: for shaft diameter 6-6.35 mm. Min. shaft length 20 mm.



Technical data

Power rating	2 W
Mechanical angle	280°
Insulation voltage	900 V
Operating temperature	-1 ... + 70° C
Resistance tolerance	± 10 ohm
Mechanical life	20 000 operations



Dimensions (mm, inches)

Modular plastic range

Reset pushbuttons



KPR1-100G

1SFC151235V0001



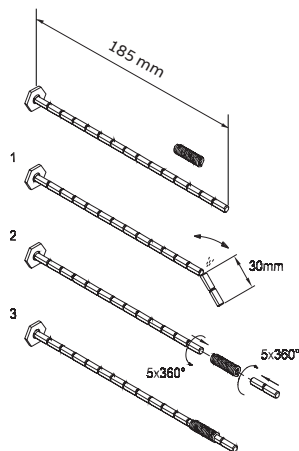
KPR1-101L

1SFC151234V0001



KPR1-104B

1SFC151229V0001



KA1-8046



KA1-8047

1SFC151381V0001

Description

Reset pushbuttons are momentary and include only black plastic bezel.

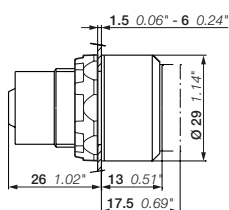
Color	Text	Type	Order code	Pkg qty	Weight (1 pce) kg
Flush reset pushbutton					
● Red	No text	KPR1-100R	1SFA616160R1001	10	0.020
● Green	No text	KPR1-100G	1SFA616160R1002	10	0.020
	I	KPR1-102G	1SFA616160R1022	10	0.020
● Yellow	No text	KPR1-100Y	1SFA616160R1003	10	0.020
● Blue	No text	KPR1-100L	1SFA616160R1004	10	0.020
	R	KPR1-101L	1SFA616160R1014	10	0.020
○ White	No text	KPR1-100W	1SFA616160R1005	10	0.020
	R	KPR1-101W	1SFA616160R1015	10	0.020
	I	KPR1-102W	1SFA616160R1025	10	0.020
	II	KPR1-103W	1SFA616160R1035	10	0.020
● Black	No text	KPR1-100B	1SFA616160R1006	10	0.020
	RESET	KPR1-104B	1SFA616160R1046	10	0.020

Extended reset pushbutton

● Red	No text	KPR2-100R	1SFA616161R1001	10	0.021
	O	KPR2-105R	1SFA616161R1051	10	0.021
● Black	No text	KPR2-100B	1SFA616161R1006	10	0.021

Accessories

	Type	Order code	Pkg qty	Weight (1 pce) kg
Shaft	KA1-8046	1SFA616920R8046	10	0.007
Flexible joint	KA1-8047	1SFA616920R8047	10	0.005



KPR1, KPR2

Dimensions (mm, inches)

Modular plastic range

Reset pushbuttons with shaft



KPR3-100R



KPR3-104B

1SFC151225V0001

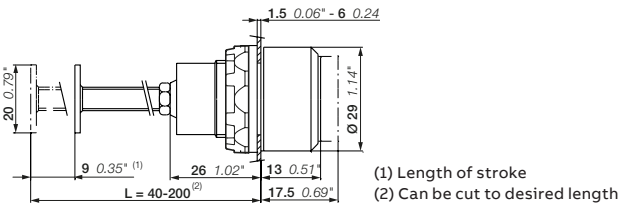
1SFC151222V0001

Description

Reset pushbuttons are momentary and include only black plastic bezel.

Color	Text	Type	Order code	Pkg qty	Weight (1 pce) kg
Flush reset pushbutton					
● Red	No text	KPR3-100R	1SFA616162R1001	1	0.027
● Green	No text	KPR3-100G	1SFA616162R1002	1	0.027
● Yellow	No text	KPR3-103G	1SFA616162R1032	1	0.027
● Blue	No text	KPR3-100Y	1SFA616162R1003	1	0.027
● Blue	No text	KPR3-100L	1SFA616162R1004	1	0.027
● Blue	R	KPR3-101L	1SFA616162R1014	1	0.027
○ White	No text	KPR3-100W	1SFA616162R1005	1	0.027
○ White	R	KPR3-101W	1SFA616162R1015	1	0.027
● Black	No text	KPR3-100B	1SFA616162R1006	1	0.027
● Black	RESET	KPR3-104B	1SFA616162R1046	1	0.027
Extended reset pushbutton					
● Red	No text	KPR4-100R	1SFA616163R1001	1	0.028
● Red	O	KPR4-105R	1SFA616163R1051	1	0.028
● Black	No text	KPR4-100B	1SFA616163R1006	1	0.028
● Black	O	KPR4-105B	1SFA616163R1056	1	0.028

Note: Flexible joint not included.



KPR3, KPR4

Dimensions (mm, inches)

Modular plastic range

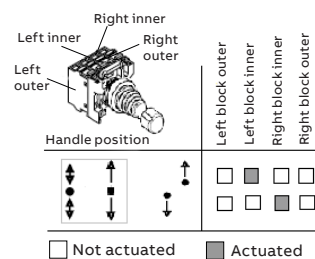
Joysticks



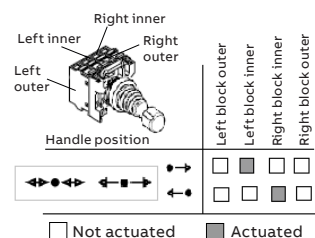
1SFC15187V0001

MJS1-60B

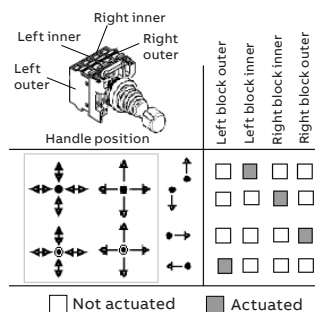
Contacts actuated



Contacts actuated



Contacts actuated



1SFC151481F0001

MA1-8138



1SFC151480F0001

MA1-8137

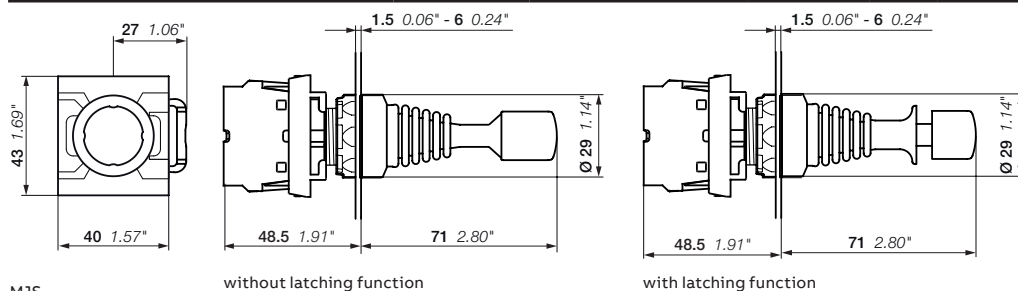
Description

IP protection degree : IP66, IP67 and IP69K. 4-position holder included.

Position	Bezel	Type	Order code	Pkg qty	Weight (1 pce) kg
Without latching function					
	Black plastic	MJS1-40B	1SFA611701R4006	1	0.043
	Chrome metal	MJS1-60B	1SFA611701R6006	1	0.052
	Black plastic	MJS2-40B	1SFA611702R4006	1	0.043
	Chrome metal	MJS2-60B	1SFA611702R6006	1	0.052
	Black plastic	MJS3-40B	1SFA611703R4006	1	0.043
	Chrome metal	MJS3-60B	1SFA611703R6006	1	0.052
	Black plastic	MJS4-40B	1SFA611704R4006	1	0.043
	Chrome metal	MJS4-60B	1SFA611704R6006	1	0.052
	Black plastic	MJS5-40B	1SFA611705R4006	1	0.043
	Chrome metal	MJS5-60B	1SFA611705R6006	1	0.052
	Black plastic	MJS6-40B	1SFA611706R4006	1	0.043
	Chrome metal	MJS6-60B	1SFA611706R6006	1	0.052
With latching function					
	Black plastic	MJS7-40B	1SFA611707R4006	1	0.043
	Chrome metal	MJS7-60B	1SFA611707R6006	1	0.052
	Black plastic	MJS9-40B	1SFA611709R4006	1	0.043
	Chrome metal	MJS9-60B	1SFA611709R6006	1	0.052
	Black plastic	MJS8-40B	1SFA611708R4006	1	0.043
	Chrome metal	MJS8-60B	1SFA611708R6006	1	0.052
	Chrome metal	MJS10-60B	1SFA611710R6006	1	0.052
	Black plastic	MJS11-40B	1SFA611711R4006	1	0.043
	Chrome metal	MJS11-60B	1SFA611711R6006	1	0.052
	Black plastic	MJS12-40B	1SFA611712R4006	1	0.043
	Chrome metal	MJS12-60B	1SFA611712R6006	1	0.052

Accessories

	Type	Order code	Pkg qty	Weight (1 pce) kg
Legend plates, 66 x 59 aluminum laminate with adhesive back				
2-position–Up–Down	MA6-1240	1SFA611930R1240	10	0.004
2-position–Left–Right	MA6-1241	1SFA611930R1241	10	0.004
4-position Up–down–right–left	MA6-1242	1SFA611930R1242	10	0.004
Legend plates holder (inserts not included, suitable for insert size 27x15)				
2-position	MA1-8138	1SFA611920R8138	10	0.002
4-position	MA1-8137	1SFA611920R8137	10	0.003



MJS
Dimensions (mm, inches)

Modular plastic range
Toggle switches



Operating principle	Bezel	Type	Order code	Pkg qty	Weight (1 pce) kg
2-position					
	Black plastic	MTS1-10B	1SFA611300R1006	10	0.014
	Chrome metal	MTS1-30B	1SFA611300R3006	10	0.023
3-position					
	Black plastic	MTS3-10B	1SFA611302R1006	10	0.014
	Chrome metal	MTS3-30B	1SFA611302R3006	10	0.023
	Black plastic	MTS2-10B	1SFA611301R1006	10	0.014
	Chrome metal	MTS2-30B	1SFA611301R3006	10	0.023

Contacts actuated, 2-position

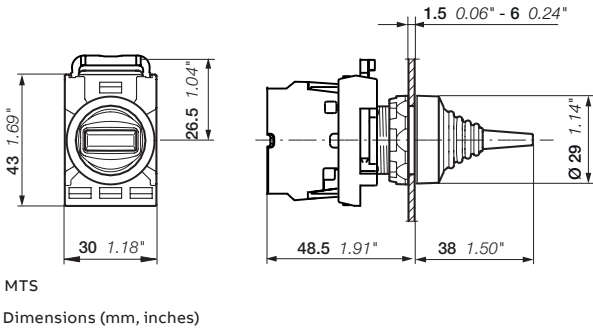
Handle position		Left block	Center block	Right block
	A	☒	☒	☒
	C	☐	☐	☐

☐ Not actuated ☒ Actuated

Contacts actuated, 3-position

Handle position		Left block	Center block	Right block
	A	☐	☒	☒
	B	☐	☐	☐
	C	☒	☒	☐

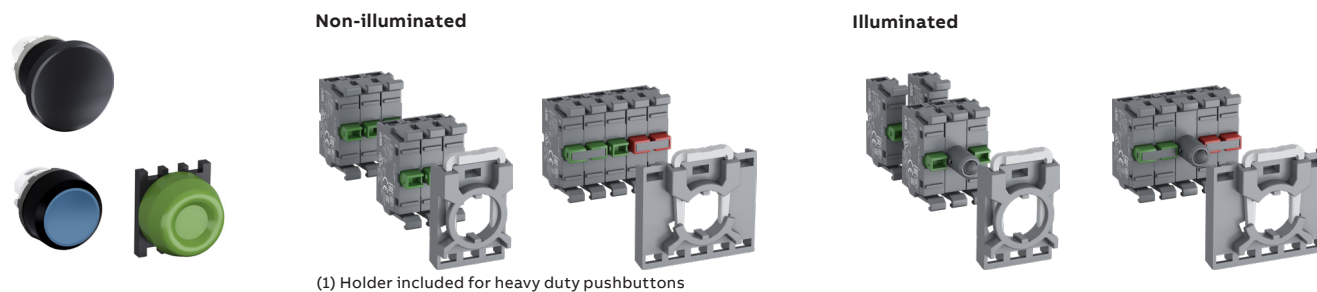
☐ Not actuated ☒ Actuated



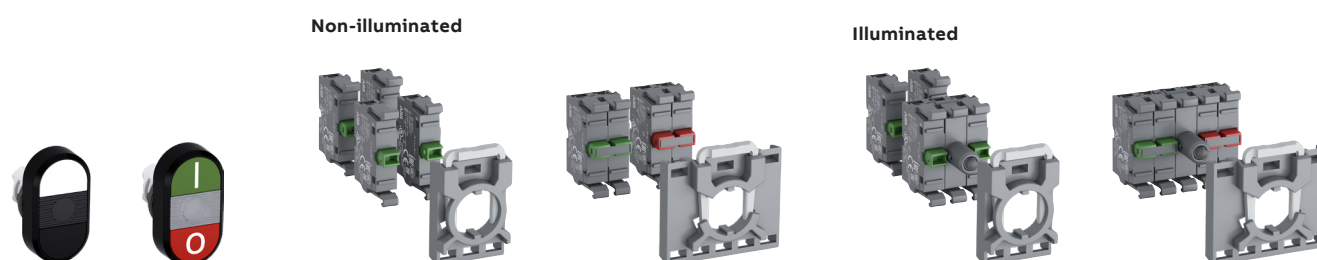
Modular plastic range

Contact block configuration

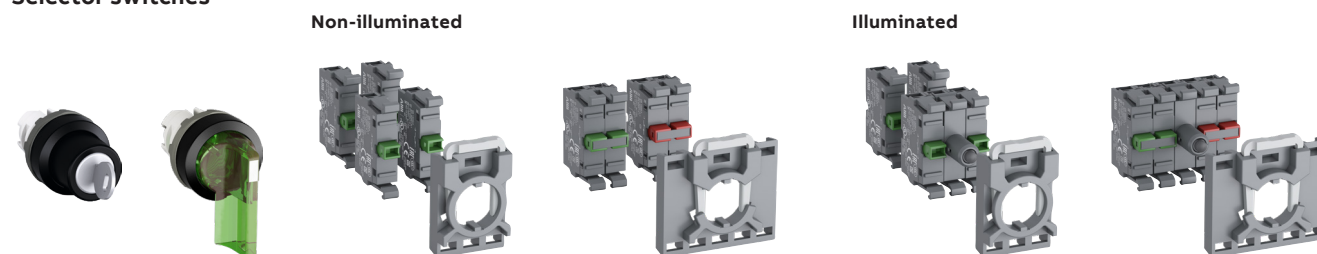
Pushbuttons–Heavy duty pushbuttons (1)–Mushrooms pushbuttons



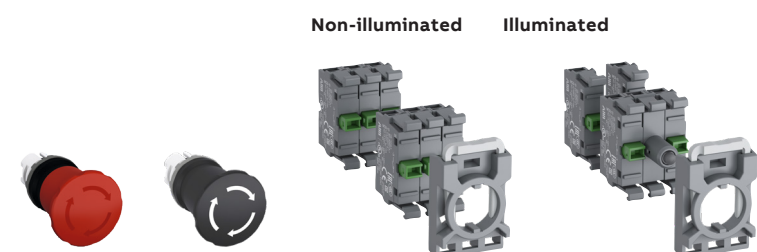
Double pushbuttons



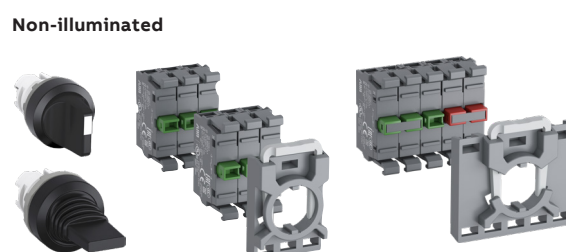
Selector switches



Emergency stop pushbuttons–Machine stop pushbuttons



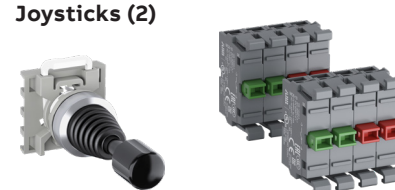
Toggle switches–Center block operating selector switches



Pilot lights



Joysticks (2)



Note: locking nut included with all operators.

(2) Holder is included for joystick.

Holders and contact blocks for front mounting

MCBL

Modular plastic range

LED blocks for front mounting



MLBL-00W

1SFC151417V0001

Color	Rated current mA	Wavelength nm	Luminance mcd	Type	Order code	Pkg qty	Weight (1pce) kg
Rated voltage 12 V DC							
Red	12.0	620	320	MLBL-00R	1SFA611621R1001	10	0.012
Green	12.0	520	1500	MLBL-00G	1SFA611621R1002	10	0.012
Yellow	12.0	588	380	MLBL-00Y	1SFA611621R1003	10	0.012
Blue	12.0	468	450	MLBL-00L	1SFA611621R1004	10	0.012
White	12.0	(1)	600	MLBL-00W	1SFA611621R1005	10	0.012
Rated voltage 24 V AC/DC (2)							
Red	10.0	620	250	MLBL-01R	1SFA611621R1011	10	0.012
Green	10.0	520	1500	MLBL-01G	1SFA611621R1012	10	0.012
Yellow	10.0	588	250	MLBL-01Y	1SFA611621R1013	10	0.012
Blue	10.0	468	450	MLBL-01L	1SFA611621R1014	10	0.012
White	10.0	(1)	600	MLBL-01W	1SFA611621R1015	10	0.012
Rated voltage 48 V AC/DC							
Red	10.0	620	260	MLBL-02R	1SFA611621R1021	10	0.012
Green	13.0	520	1500	MLBL-02G	1SFA611621R1022	10	0.012
Yellow	10.0	588	300	MLBL-02Y	1SFA611621R1023	10	0.012
Blue	13.0	468	450	MLBL-02L	1SFA611621R1024	10	0.012
White	13.0	(1)	600	MLBL-02W	1SFA611621R1025	10	0.012
Rated voltage 60 V AC/DC							
Red	13.0	620	350	MLBL-03R	1SFA611621R1031	10	0.012
Green	13.0	520	2000	MLBL-03G	1SFA611621R1032	10	0.012
Yellow	13.0	588	400	MLBL-03Y	1SFA611621R1033	10	0.012
Blue	13.0	468	550	MLBL-03L	1SFA611621R1034	10	0.012
White	13.0	(1)	750	MLBL-03W	1SFA611621R1035	10	0.012
Rated voltage 110-130 V AC (2)							
Red	15.0	620	200	MLBL-04R	1SFA611621R1041	10	0.012
Green	15.0	520	1200	MLBL-04G	1SFA611621R1042	10	0.012
Yellow	15.0	588	250	MLBL-04Y	1SFA611621R1043	10	0.012
Blue	15.0	468	400	MLBL-04L	1SFA611621R1044	10	0.012
White	15.0	(1)	500	MLBL-04W	1SFA611621R1045	10	0.012
Rated voltage 110-130 V DC							
Red	10.0	620	250	MLBL-05R	1SFA611621R1051	10	0.012
Green	10.0	520	1500	MLBL-05G	1SFA611621R1052	10	0.012
Yellow	10.0	588	300	MLBL-05Y	1SFA611621R1053	10	0.012
Blue	10.0	468	450	MLBL-05L	1SFA611621R1054	10	0.012
White	10.0	(1)	600	MLBL-05W	1SFA611621R1055	10	0.012
Rated voltage 220 V DC							
Red	8.0	620	180	MLBL-06R	1SFA611621R1061	10	0.012
Green	8.0	520	110	MLBL-06G	1SFA611621R1062	10	0.012
Yellow	8.0	588	200	MLBL-06Y	1SFA611621R1063	10	0.012
Blue	8.0	468	450	MLBL-06L	1SFA611621R1064	10	0.012
White	8.0	(1)	600	MLBL-06W	1SFA611621R1065	10	0.012

Note: care should be taken for DC supply where + and – must be correctly connected. This is marked X1 (+) and X2 (–) on the product.

(1) X=0.31, Y=0.32 according to the ICI Chromaticity diagram.

(2) LED to be used in application where there is risk of large induced voltages.

Modular plastic range

LED blocks for front mounting

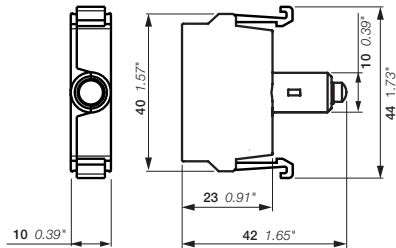


Color	Rated current mA	Wavelength nm	Luminance mcd	Type	Order code	Pkg qty	Weight (1pce) kg
Rated voltage 230 V AC (2)							
Red	10.0	620	250	MLBL-07R	1SFA611621R1071	10	0.012
Green	10.0	520	1500	MLBL-07G	1SFA611621R1072	10	0.012
Yellow	10.0	588	300	MLBL-07Y	1SFA611621R1073	10	0.012
Blue	10.0	468	450	MLBL-07L	1SFA611621R1074	10	0.012
White	10.0	(1)	600	MLBL-07W	1SFA611621R1075	10	0.012
Rated voltage 380 V AC							
Red	10.0	620	250	MLBL-08R	1SFA611621R1081	10	0.012
Green	10.0	520	1500	MLBL-08G	1SFA611621R1082	10	0.012
Yellow	10.0	582	300	MLBL-08Y	1SFA611621R1083	10	0.012
Blue	10.0	468	450	MLBL-08L	1SFA611621R1084	10	0.012
White	10.0	(1)	600	MLBL-08W	1SFA611621R1085	10	0.012
Rated voltage 415 V AC							
Red	11	620	280	MLBL-09R	1SFA611621R1091	10	0.012
Green	11	520	1800	MLBL-09G	1SFA611621R1092	10	0.012
Yellow	11	588	350	MLBL-09Y	1SFA611621R1093	10	0.012
Blue	11	468	500	MLBL-09L	1SFA611621R1094	10	0.012
White	11	(1)	650	MLBL-09W	1SFA611621R1095	10	0.012

Note: care should be taken for DC supply where + and–must be correctly connected. This is marked X1 (+) and X2 (-) on the product.

(1) X=0.31, Y=0.32 according to the ICI Chromaticity diagram.

(2) LED to be used in application where there is risk of large induced voltages.



MLBL

Dimensions (mm, inches)

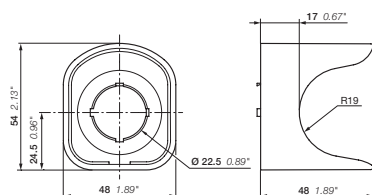
Modular plastic range

Accessories



Description	Bezel / color	Type	Order code	Pkg qty	Weight (1pce) kg
30 mm adapters for 22 mm operator (1.5–4 mm panel thickness)					
Emergency stop pushbuttons, MPM	Black plastic	KA1-8027	1SFA616920R8027	1	0.007
	Chrome metal	KA1-8028	1SFA616920R8028	1	0.021
Pushbuttons, selector switches, pilot lights, potentiometers, emergency stop pushbuttons, MPE, MJS	Black plastic	KA1-8029	1SFA616920R8029	1	0.010
	Chrome metal	KA1-8030	1SFA616920R8030	1	0.027
Flush mounted pushbuttons	Chrome metal	KA1-8073	1SFA616920R8073	1	0.050
Flush mounted selector switches	Chrome metal	MA1-8074	1SFA611920R8074	1	0.050
Protective membrane, silicone					
Flush pushbutton		MA1-8052	1SFA611920R8052	10	0.002
Double pushbutton		MA1-8126	1SFA611920R8126	10	0.002
Extended pushbutton		MA1-8002	1SFA611920R8002	10	0.002
Protective ring					
To prevent accidental operation. Cannot be used together with Legend plate holder					
Flush and extended pushbuttons	Clear plastic	-	SK615512-1	10	0.002
Flush pushbuttons	Metal and black plastic	KA1-8010	1SFA616920R8010	10	0.008
Bezel					
Pushbuttons	Black plastic	KA1-8022	1SFA616920R8022	10	0.002
	Chrome plastic	KA1-8020	1SFA616920R8020	10	0.002
	Chrome metal	KA1-8021	1SFA616920R8021	10	0.015
Selector switches	Black plastic	KA1-8080	1SFA616920R8080	10	0.002
	Chrome metal	KA1-8024	1SFA616920R8024	10	0.015
Square bezel					
Black plastic	-	-	SK616016-2	10	0.001
Lockable shroud					
Pushbuttons, selector switches	Plastic	MA1-8153	1SFA611920R8153	1	0.023
Emergency stop 30 mm	Metal	-	SK615502-D	1	0.080
Touch guard					
Touch guard		MA1-8152	1SFA611920R8152	1	0.023
Shroud with anti rotation tabs, slot for pad-lock and with water drainage					
Emergency stop, machine stop 40 mm	● Yellow	MA1-8053	1SFA611920R8053	1	0.020
	● Grey	MA1-8128	1SFA611920R8128	1	0.020

Note: Din-rail adapter should be used with 2 contact blocks for rear mounting type MCB. B.



MA1

Dimensions (mm, inches)

Modular plastic range

Accessories

02



MA1-8131

1SFC151276V0001



MA1-8015

1SFC151275V0001



MA1-8019

1SFC151385V0001



MDB-2

1SFC151455F0001



MA1-8149

1SFC151004F0001

Description	Bezel / color	Type	Order code	Pkg qty	Weight (1pce) kg
DIN-rail adapter					
DIN-rail adapter		MA1-8131	1SFA611920R8131	1	0.020
DIN-rail adapter with one dummy block		MA1-8001	1SFA611920R8001	1	0.028
Dummy block		MDB-2	1SFA611630R1002	10	0.003
Note: Din-rail adapter should be used with 2 contact blocks for rear mounting type MCB..B. Note: Dummy blocks are used when only one contact block or a compact pilot device is used together with the DIN-rail adapter					
Mounting tools					
Mounting tool for tightening the locking nut		MA1-8015	1SFA611920R8015	1	0.021
Mounting tool for power tool		MA1-8149	1SFA611920R8149	1	0.155
Extra key					
Key code 455			SK616021-71	10	0.007
Key code 421			SK616021-72	10	0.007
Key code 3433-E			SK616021-73	10	0.007
Locking nut					
Locking nut		MA1-8019	1SFA611920R8019	10	0.001

Modular plastic range

Technical data

Standards and approvals	
IEC / EN 60947-1	Low Voltage switchgear and control gear–Part 1: General rules
IEC / EN 60947-5-1	Low Voltage switchgear and control gear–part 5-1: control circuit devices and switching elements–Electromechanical control circuit devices
IEC / EN 60947-5-5	Low Voltage switchgear and control gear–part 5-5: control circuit devices and switching elements–Electrical emergency stop device with mechanical latching function
IEC / EN 60073	Basic and safety principles for man-machine interface, marking and identification coding principles for indicators and actuators
IEC / EN 60529	Degrees of protection provided by enclosures (IP code)
EN 50013	Low Voltage switchgear and control gear for industrial use, terminal marking and distinctive number for particular control switches
DIN 40050-9	Road vehicles; Degrees of protection (IP-code); protection against foreign objects; water and contact; electrical equipment
UL 508	Industrial control equipment
CSA C22.2 No 14	Industrial control equipment

Environmental data

Degrees of protection

Operators	IEC/EN DIN	UL/CSA
Pushbutton: MP	IP66	Type 1, 3R, 4, 4X, 12, 13
Double pushbutton: MPD	IP66	Type 1, 3R, 4, 4X, 12, 13
Mushroom pushbutton: MPM	IP66	Type 1, 3R, 4, 4X, 12, 13
Emergency stop pushbuttons: MPMT, MPMP, MPET, MPEP, MPEK	IP66	Type 1, 3R, 4, 4X, 12, 13
Selector switch: M2SS, M3SS	IP66	Type 1, 3R, 4, 4X, 12, 13
Key-operated selector switch: M2SSK, M3SSK	IP66	Type 1, 3R, 4, 4X, 12
Toggle switch: MTS2, MTS3	IP66	Type 1, 3R, 4, 4X, 12, 13
Heavy duty pushbutton: KP6	-	Type 1, 3R, 4, 4X
Reset pushbutton: KPR	IP66	Type 1, 3R, 4, 4X, 12, 13
Joystick: MJS	IP66, 67, 69K	Type 1, 4X (indoor), 12, 13
Pilot light: ML	IP66	Type 1, 3R, 4, 4X, 12, 13
Potentiometer: MT	IP66	Type 1, 3R, 4, 4X, 12, 13
Contact block : MCB	IP20	-
Plastic enclosure: MEP	IP66	Type 1, 3R, 4, 4X, 12, 13

Note: Specified degree of protection is for operator mounted on panel. If other items are mounted in between, please make sure that they are correctly sealed.

Temperature

Ambient temperature during operation	-25 to +70 °C
Storage temperature	-40 to +85 °C

Connecting capacity			
Contact block type	MCB	MCBL	MLBL
Connection capacity (min. ... max.)			
	Solid/stranded	1x	0.75...2.5 mm ²
		2x	0.75...2.5 mm ²
	Flexible	1x	0.75...2.5 mm ²
		2x	0.75...2.5 mm ²
	Flexible with non insulated ferrule	1x	0.75...2.5 mm ²
		2x	0.75...2.5 mm ²
	Flexible with insulated ferrule	1x	0.75...2.5 mm ²
		2x	0.75...2.5 mm ²
	Lugs	L≤	7.0 mm
		I>	3.5 mm
Connection capacity acc. to UL/CSA		1 or 2 x	AWG 18...14
Stripping length		8 mm	
Tightening torque			
Cable terminals M3.5		0.9 Nm	
Recommended screwdriver for cable terminal		Pozidriv No. 2	
Operators locking nut		Min. 2 Nm / Max. 2.3 Nm	

Material

No ozone depleting substances in the products. All front of panel plastic components are made of polycarbonate

PC polycarbonate	High impact strength, good outdoor resistance. Chemical resistance (see table below)
PSU polysulphone	Can withstand high temperatures, acids, basic solutions, alkaline compounds, oils, alcohols
PA polyamide	Can withstand high temperatures, aliphatic, aromatic and chlorinated hydrocarbons, esters, ketone-aldehydes, alcohols and basic solutions
PBT	Can withstand high temperature, aliphatic and aromatic hydrocarbons, acids, basic solutions, alcohols, grease and oils
Zinc	Good corrosion resistance in inland-, sea and industrial atmosphere
Light-alloy	Good corrosion resistance in inland-, sea and industrial atmosphere

Chemical resistance for polycarbonate

Chemical class	Effects	
Alcohols and alkalis	Generally compatible at low concentration and room temperature. Higher concentrations and elevated temperatures can result in etching and attack evidenced by decomposition	
Aliphatic hydrocarbons	Generally compatible	
Amines	Surface crystallization and chemical attack.	Avoid
Aromatic hydrocarbons	Partial solvents and severe stress cracking agents (i.e., xylene, toluene)	Avoid
Detergents and cleaners	Mild soap solutions are generally compatible. Strong alkaline materials should be avoided	
Esters	Cause severe crystallization. Partial solvents	Avoid
Greases and oils	Pure petroleum types generally compatible. Many additives used with them are not	
Halogenated, hydrocarbons	Solvents	Avoid
Ketones	Cause severe crystallization and stress cracking. Partial solvents	Avoid
Silicone oil and greases	Generally compatible up to 85 °C	

Modular plastic range

Technical data

Electrical data

MCB Standard contact blocks (standard and gold plated)

Self cleaning silver contacts, NC contact with positive opening.
At voltages and currents below 24 V and 5.6 mA we recommend our micro switch blocks.

Ratings as per IEC 60947-5-1

Rated insulation voltage, U_i	690 V	
Rated thermal current, I_{th}	10 A	
Rated operational current, I_e utilization category AC 15,	at: 120 V	8 A
	at: 230 V	6 A
	at: 400 V	4 A
	at: 690 V	2 A
Rated operational current, I_e utilization category DC 13,	at: 24 V	5 A
	at: 125 V	1.1 A
	at: 250 V	0.55 A
Rated impulse withstand voltage	Uimp	6 kV
Rated frequency	50/60 Hz	
Pollution degree	3	

Ratings as per UL, CSA, NEMA

	A600 AC	Q600 DC
Rated insulation voltage	600 V	600 V
Rated thermal current	10 A	2.5 A
Rated operational current	at: 120 V	6 A
	at: 240 V	3 A
	at: 480 V	1.5 A
	at: 600 V	1.2 A
	at: 125 V	0.55 A
	at: 250 V	0.27 A
	at: 480 V	0.10 A
	at: 600 V	0.10 A

Max. number of contact blocks per operator

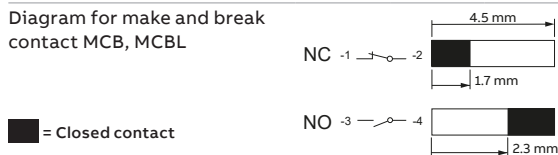
The contact blocks can be stacked in max two levels on the 3-block holder. Only one level is accepted on the 5-block holder.

Pushbutton, toggle switch, mushroom pushbutton, double pushbutton, selector switch, key-operated selector switch and emergency stop operator	6
Joystick	8

Short circuit protection

Max. fuse at 1 kA gG 16A

Diagram for make and break contact MCB, MCBL



Micro switch block

Ratings as per IEC 60947-5-1

Rated insulation voltage, U_i	125 V	
Rated thermal current, I_{th}	3 A	
Rated operational current, I_e utilization category AC 14,	at: 125 V	0.5 A
	at: 24 V	0.3 A
Rated operational current, I_e utilization category DC 13,	at: 24 V	0.1 A
Rated operational current, I_e utilization category DC 12,	at: 24 V	0.1 A

Ratings as per UL 508

125 V AC	3 A
60 V DC	0.2 A
48 V DC	0.1 A

Minimum switching capacity

Standard contact blocks	24 V DC	5.6 mA
Gold plated contact blocks	5 V DC	12 mA
	12 V DC	1 mA
Micro switch blocks	3 V DC	1 mA

Mechanical data

Mechanical life

Standard contact blocks MCB	10 million operations
Micro switch block MCBL	1 million operations
Pushbuttons MP, momentary mushroom pushbuttons MPM	2 million operations

Selector switches M2SS, M3SS

Standard contact blocks and micro switch block	3-position holder		500 000 operations
Standard contact blocks	3-position holder		
Standard contact blocks	5-position holder		
Standard contact blocks in two stacks	3-position holder		

Selector switches—center block operating M3SSC

Standard contact blocks	3-position holder		250 000 operations
Standard contact blocks in two stacks	3-position holder		150 000 operations

Key-operated selector switch M2SSK, M3SSK and double pushbutton MPD

500 000 operations

Emergency stop pushbuttons MPET, MPEP, MPEK

100 000 operations

Toggle switch MTS

1 million operations

Joystick MJS

Micro switch block	4-position holder		500 000 operations
Standard contact blocks	4-position holder		
Standard contact blocks and micro switch block	4-position holder		400 000 operations
Standard contact blocks in two stacks	4-position holder		300 000 operations

LED blocks MLBL

Service life for LED means number of service hours until the brightness has been reduced down 50%. Service life 50 000 h operating at 25 °C, 40–70% rh (relative humidity)

Color of white LED	$x=0.31$ $y=0.32$ means the position of color in the ICI Chromaticity diagram
Voltage tolerance on LED blocks	-30 to +10% voltage is acceptable without affecting the Service life
Voltage peaks on LED blocks	Voltage peaks up to 1000 V. Current peaks up to 500 mA during a few msec.
Glowing light	All integrated LED bulbs have a function built in to cut leakage currents
Rated frequency	50/60 Hz for AC supplied products

Modular plastic range

Technical data

LED blocks front and rear mounting MLBL

Color	Current		Illuminance		Anti ... inductive peak voltage	Main wavelength	Color temperature
	mA Min.	Max.	lx Min.	Max.	V	Nm	K
Voltage range 12 V DC							
● Red	11	15	1000	3500	5	620 ... 625	–
● Green	8	12	3700	12500	5	515 ... 520	–
● Yellow	11	15	1200	4250	5	585 ... 590	–
● Blue	8	12	1500	5300	5	465 ... 470	–
○ Clear	8	12	1800	8500	5	–	8000 ... 12000
Voltage range 24 V AC / DC (1)							
● Red	8	12	900	3100	9	620 ... 625	–
● Green	8	12	3000	11500	9	515 ... 520	–
● Yellow	8	12	800	3100	9	585 ... 590	–
● Blue	8	12	900	5000	9	465 ... 470	–
○ Clear	8	11	1800	8500	9	–	8000 ... 12000
Voltage range 48 V AC / DC							
● Red	8	12	900	3100	5	620 ... 625	–
● Green	8	12	3000	11500	5	515 ... 520	–
● Yellow	8	12	1000	3400	5	585 ... 590	–
● Blue	8	12	1500	5300	5	465 ... 470	–
○ Clear	8	12	1800	8500	5	–	8000 ... 12000
Voltage range 60 V AC / DC							
● Red	8	12	900	3100	5	620 ... 625	–
● Green	8	12	3000	11500	5	515 ... 520	–
● Yellow	8	12	1000	3400	5	585 ... 590	–
● Blue	8	12	1500	5300	5	465 ... 470	–
○ Clear	8	12	1800	8500	5	–	8000 ... 12000
Voltage range 110 ... 130 V AC (1)							
● Red	15	12	900	3100	25	620 ... 625	–
● Green	15	12	2500	11700	25	515 ... 520	–
● Yellow	15	12	1000	3700	25	585 ... 590	–
● Blue	15	12	1000	5200	25	465 ... 470	–
○ Clear	15	12	1850	8800	25	–	8000 ... 12000
Voltage range 110 ... 130 V DC							
● Red	8	12	900	3100	15	620 ... 625	–
● Green	8	12	3000	11500	15	515 ... 520	–
● Yellow	8	12	1000	3400	15	585 ... 590	–
● Blue	8	12	1500	5300	15	465 ... 470	–
○ Clear	8	12	1800	8500	15	–	8000 ... 12000

Note:

The testing distance of illuminance is 2 mm, between top of lens and the sensor surface. Clean test environment, supply voltage at 50/60 Hz with harmonized wave and without length high frequency.

Rated voltage tolerance of LED blocks: -30% to +10%.

(1) LED to be used in applications where there is risk of large induced voltages.

Modular plastic range

Technical data

Color	Current		Illuminance		Anti-inductive peak voltage	Main wavelength	Color temperature
	mA Min.	Max.	lx Min.	Max.	V	Nm	K
Voltage range 220 V DC							
● Red	7	10	700	2300	15	620 ... 625	–
● Green	7	10	2400	8000	15	515 ... 520	–
● Yellow	7	10	800	3100	15	585 ... 590	–
● Blue	7	10	1200	4350	15	465 ... 470	–
○ Clear	7	10	1400	7000	15	–	8000 ... 12000
Voltage range 230 V AC (1)							
● Red	8	12	900	3100	55	620 ... 625	–
● Green	8	12	3000	11500	55	515 ... 520	–
● Yellow	8	12	500	3100	55	585 ... 590	–
● Blue	7	11	800	5000	55	465 ... 470	–
○ Clear	7	11	1200	8200	55	–	8000 ... 12000
Voltage range 380 V AC							
● Red	8	12	900	3100	15	620 ... 625	–
● Green	8	12	3000	11500	15	515 ... 520	–
● Yellow	8	12	1000	3400	15	585 ... 590	–
● Blue	8	12	1500	5300	15	465 ... 470	–
○ Clear	8	12	1800	8500	15	–	8000 ... 12000
Voltage range 415 V AC							
● Red	8	12	900	3100	15	620 ... 625	–
● Green	8	12	3000	11500	15	515 ... 520	–
● Yellow	8	12	1000	3400	15	585 ... 590	–
● Blue	8	12	1500	5300	15	465 ... 470	–
○ Clear	8	12	1800	8500	15	–	8000 ... 12000
Voltage range 230 V AC high anti-inductive voltage (1)							
● Red	8	12	480	1700	55	620 ... 625	–
● Green	6	11	1500	5800	55	515 ... 520	–
● Yellow	8	12	530	1900	55	585 ... 590	–
● Blue	6	11	850	3100	55	465 ... 470	–
○ Clear	6	11	1000	5200	55	–	8000 ... 12000

Note:

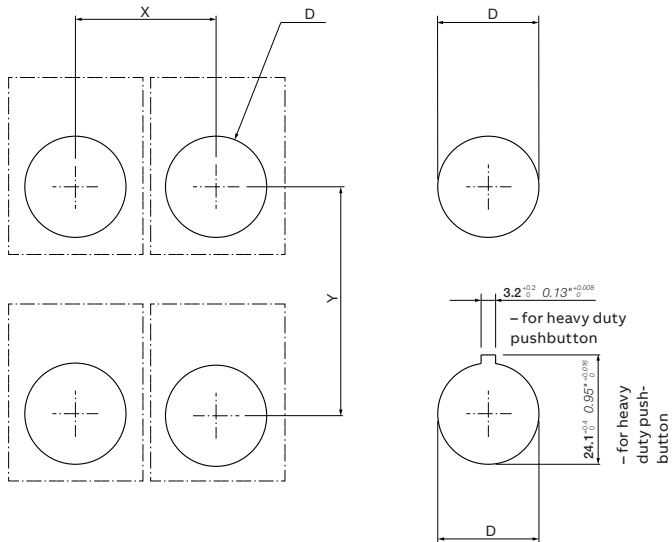
The testing distance of illuminance is 2 mm, between top of lens and the sensor surface. Clean test environment, supply voltage at 50/60 Hz with harmonized wave and without length high frequency.

Rated voltage tolerance of LED blocks: ... 30% to +10%.

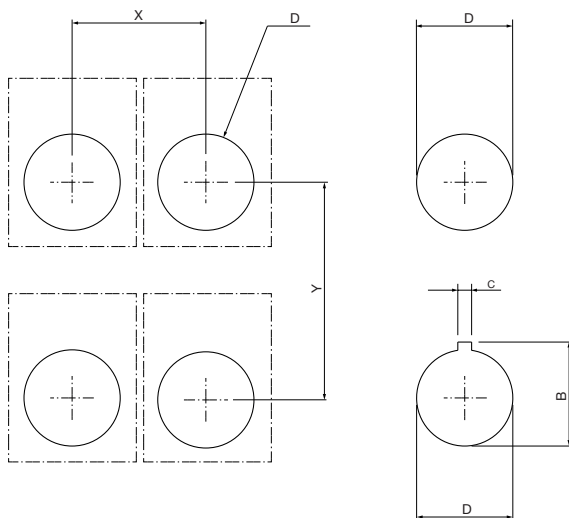
(1) Higher threshold to light up LED to be used in applications where there is risk of large induced voltages.

Modular plastic range

Drilling plan



Description	X	Y	D		Panel thickness
			Ø mm	inch	
Pushbutton, pilot light, selector switch short handle, potentiometer, toggle switch, 30 mm emergency stop, key-operated selector switch	31 1.22"	50 1.97"	Ø 22.3 $^{+0.4}_0$	0.88 $^{+0.016}_0$	1.5 0.06"-6 0.24"
Pushbutton, pilot light, selector switch short handle (with legend plate)	31 1.22"	55 2.17"	Ø 22.3 $^{+0.4}_0$	0.88 $^{+0.016}_0$	1.5 0.06"-6 0.24"
Mushroom pushbutton, emergency stop, machine stop (60 mm)	45 1.77"	50 1.97"	Ø 22.3 $^{+0.4}_0$	0.88 $^{+0.016}_0$	1.5 0.06"-6 0.24"
Mushroom pushbutton, emergency stop, machine stop (40 mm)	65 2.56"	70 2.76"	Ø 22.3 $^{+0.4}_0$	0.88 $^{+0.016}_0$	1.5 0.06"-6 0.24"
Double pushbutton	31 1.22"	55 2.17"	Ø 22.3 $^{+0.4}_0$	0.88 $^{+0.016}_0$	1.5 0.06"-6 0.24"
Double pushbutton (with legend plate)	31 1.22"	95 3.74"	Ø 22.3 $^{+0.4}_0$	0.88 $^{+0.016}_0$	1.5 0.06"-6 0.24"
Heavy duty pushbutton	50 1.97"	50 1.97"	Ø 30.5 $^{+0.5}_0$	1.20 $^{+0.02}_0$	2 0.08"-5 0.20"
Potentiometer (with legend plate)	51 2.01"	50 1.97"	Ø 22.3 $^{+0.4}_0$	0.88 $^{+0.016}_0$	1.5 0.06"-6 0.24"
Toggle switch (with legend plate)	31 1.22"	66 2.60"	Ø 22.3 $^{+0.4}_0$	0.88 $^{+0.016}_0$	1.5 0.06"-6 0.24"
Joystick (with legend plate)	100 3.94"	100 3.94"	Ø 22.3 $^{+0.4}_0$	0.88 $^{+0.016}_0$	1.5 0.06"-6 0.24"



Accessories	X	Y	D		B	C		Panel thickness
			Ø mm	inch		Ø mm	inch	
5 block holder	51 2.01"	50 1.97"	Ø 22.3 $^{+0.4}_0$	0.88 $^{+0.016}_0$	24.1 $^{+0.4}_0$	0.95 $^{+0.016}_0$	3.2 0.13"	1.5 0.06"-6 0.24"
30 mm adapter	42 1.65"	52 2.05"	Ø 30.5 $^{+0.5}_0$	1.20 $^{+0.02}_0$	33 $^{+0.5}_0$	1.30 $^{+0.02}_0$	5 0.20"	2 0.08"-7 0.28"

Pilot devices, 22 mm

Modular metal range

Ordering details

56	Non-illuminated pushbuttons momentary
57	Non-illuminated marked pushbuttons momentary
58	Illuminated pushbuttons momentary
59	Non-illuminated mushroom pushbuttons
60	Illuminated mushroom pushbuttons
61	Pilot lights
62	Non-illuminated selector switches–2-position
63	Illuminated selector switches–2-position
64	Non-illuminated selector switches–3-position
65	Illuminated selector switches–3-position
66	Non-illuminated selector switches –4- and 5-position
68	Key-operated selector switches
72	Joysticks
74	Toggle switches
75	Selector pushbuttons

Accessories for modular range

76	Holders and contact blocks for front mounting
77	Power supplies
78	LED bulbs for power supplies
79	LED blocks for front mounting
80	Other accessories
81	Metal enclosures

83 Technical data

85 Dimension

86 Drilling plan

Modular metal range

Non-illuminated pushbuttons momentary



P9M-PNRG
with holder

1SFC151476V0001



P9M-PNGG

1SFC151529V0001



P9M-PNBG

1SFC151530V0001



P9M-PNNG

1SFC151526V0001



P9M-PNRS

1SFC151519V0001



P9M-PNVS

1SFC151518V0001



P9M-PNLS

1SFC151521V0001



P9M-PNNS

1SFC151520V0001



P9A-CDPP

1SFC151628V0001

Description

Each reference includes the satin chrome metal body and nut together with the holder.

Operator	Type	Order code	Pkg qty	Weight (1 pce) kg
Flush pushbutton				
● Red	P9M-PNRG	1SFA184001R9001	1	0.058
● Green	P9M-PNVG	1SFA184002R9002	1	0.058
● Yellow	P9M-PNGG	1SFA184003R9003	1	0.058
● Blue	P9M-PNLG	1SFA184006R9004	1	0.058
○ White	P9M-PNBG	1SFA184007R9005	1	0.058
● Black	P9M-PNNG	1SFA184000R9006	1	0.058
● Grey	P9M-PNHG	1SFA184008R9007	1	0.058

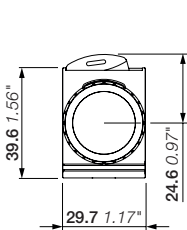
Extended pushbutton

● Red	P9M-PNRS	1SFA184011R9001	1	0.062
● Green	P9M-PNVS	1SFA184012R9002	1	0.062
● Yellow	P9M-PNGS	1SFA184057R9003	1	0.062
● Blue	P9M-PNLS	1SFA184016R9004	1	0.062
○ White	P9M-PNBS	1SFA184017R9005	1	0.062
● Black	P9M-PNNS	1SFA184010R9006	1	0.062

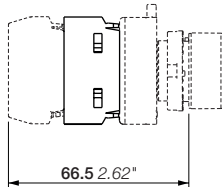
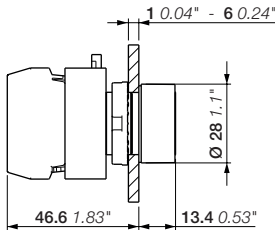
Maintained accessory

Device for standard pushbuttons, illuminated pushbuttons:
To be used only with contact blocks P9B-01VN, P9B-01VR, P9B-10VA and P9B-01FN

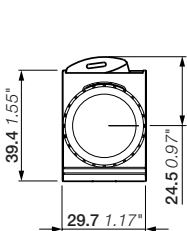
P9A-CDPP	1SFA187843R8000	1	0.012
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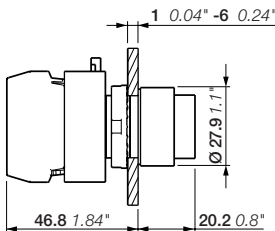
P9MPN..G



P9A-CDPP



P9MPN..S



Dimensions (mm, inches)

Modular metal range

Non-illuminated marked pushbuttons momentary



P9M-PNLG037

1SFC151445V0001



P9M-PNBG030

1SFC151449V0001



P9M-PNBG028

1SFC151447V0001



P9M-PNRG029

1SFC151446V0001



P9M-PNNG029

1SFC151445V0001



P9M-PNVG006

1SFC151445V0001



P9M-PNRS029

1SFC151647V0001

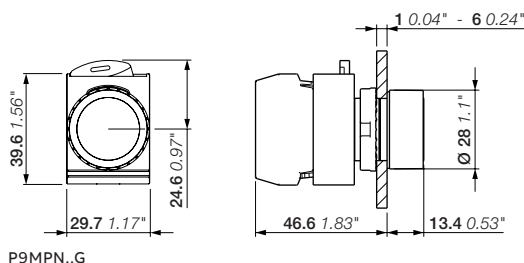
Flush pushbuttons

Each reference includes the satin chrome metal body and nut together with the holder.

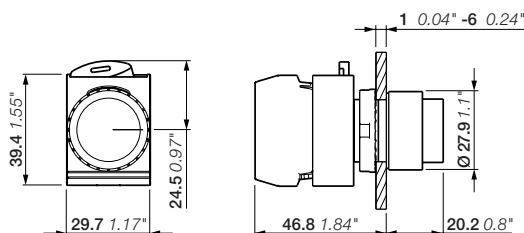
Text/symbol	Color	Type	Order code	Pkg qty	Weight (1 pce) kg
Flush pushbuttons					
START	Green	P9M-PNVG202	1SFA187149R9502	1	0.058
STOP	Red	P9M-PNRG201	1SFA187147R9501	1	0.058
	Black	P9M-PNNG201	1SFA188908R9506	1	0.058
R	Blue	P9M-PNLG037	1SFA187143R9504	1	0.058
⊕	Green	P9M-PNVG030	1SFA187146R9502	1	0.058
	White	P9M-PNBG030	1SFA188057R9505	1	0.058
	Black	P9M-PNNG030	1SFA187145R9506	1	0.058
I	Green	P9M-PNVG028	1SFA187112R9502	1	0.058
	White	P9M-PNBG028	1SFA187151R9505	1	0.058
	Black	P9M-PNNG028	1SFA187111R9506	1	0.058
O	Red	P9M-PNRG029	1SFA187110R9501	1	0.058
	Black	P9M-PNNG029	1SFA187150R9506	1	0.058
→	Green	P9M-PNVG006	1SFA187118R9502	1	0.058
	White	P9M-PNBG006	1SFA187152R9505	1	0.058
	Black	P9M-PNNG006	1SFA187117R9506	1	0.058
✱	Black	P9MPNNG085	1SFA188886R9506	1	0.058
↔	Blue	P9M-PNLG007	1SFA188900R9504	1	0.058
⚡	Black	P9M-PNNG002	1SFA187139R9506	1	0.058

Extended pushbutton

O	Red	P9M-PNRS029	1SFA187210R9501	1	0.058
O	Black	P9M-PNNS029	1SFA187250R9506	1	0.058
⏏	Black	P9M-PNNS032	1SFA187235R9506	1	0.058



P9MPN..G



P9MPN..S

Dimensions (mm, inches)

Modular metal range

Illuminated pushbuttons momentary



15FCL151475V0001

P9M-PLVGD
with holder



15FCL151588V0001

P9M-PLRGD



15FCL151571V0001

P9M-PLGGD



15FCL151572V0001

P9M-PLBGD



15FCL151532V0001

P9M-PLRSD



15FCL151438V0001

P9M-PLLGV



15FCL151439V0001

P9M-PLGGV



15FCL151531V0001

P9M-PLVSD



15FCL151566V0001

P9M-PLASD



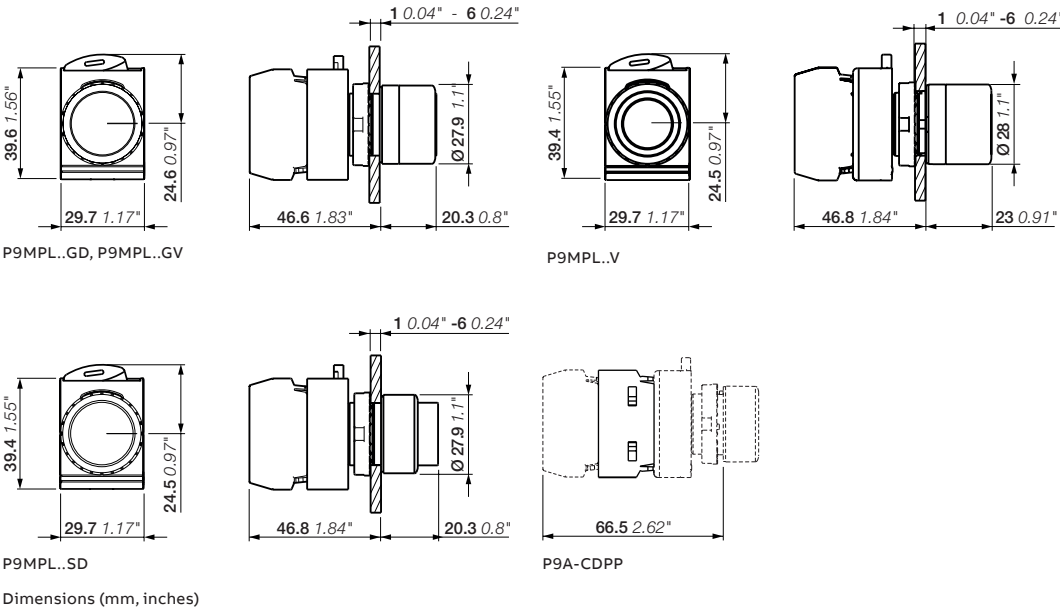
15FCL151628V0001

P9A-CDPP

Description

Each reference includes the satin chrome metal body and nut together with the holder.

Operator	Type	Order code	Pkg qty	Weight (1 pce) kg
Flush pushbutton–Plastic lens type				
● Red	P9M-PLRGD	1SFA184491R9101	1	0.057
● Green	P9M-PLVGD	1SFA184492R9102	1	0.057
● Yellow	P9M-PLGGD	1SFA184493R9103	1	0.057
● Blue	P9M-PLLGD	1SFA184496R9104	1	0.057
○ White	P9M-PLBGD	1SFA184497R9105	1	0.057
● Orange	P9M-PLAGD	1SFA184495R9109	1	0.057
○ Clear	P9M-PLIGD	1SFA184498R9108	1	0.057
Flush pushbutton–Glass lens type				
● Red	P9M-PLRGV	1SFA184521R9101	1	0.060
● Green	P9M-PLVGV	1SFA184522R9102	1	0.060
● Yellow	P9M-PLGGV	1SFA184523R9103	1	0.060
● Blue	P9M-PLLGV	1SFA184526R9104	1	0.060
○ White	P9M-PLBGV	1SFA184527R9105	1	0.060
Extended pushbutton–Plastic lens type				
● Red	P9M-PLRSD	1SFA184501R9101	1	0.059
● Green	P9M-PLVSD	1SFA184502R9102	1	0.059
● Yellow	P9M-PLGSD	1SFA184503R9103	1	0.059
● Blue	P9M-PLLSd	1SFA184506R9104	1	0.059
○ White	P9M-PLBSD	1SFA184507R9105	1	0.059
● Orange	P9M-PLASD	1SFA184505R9109	1	0.059
Maintained accessory				
Device for standard pushbuttons, illuminated pushbuttons: To be used only with contact blocks P9B-01VN, P9B-01VR, P9B- 10VA and P9B-01FN	P9A-CDPP	1SFA187843R8000	1	0.012



Modular metal range

Non-illuminated mushroom pushbuttons



P9M-ER3RN
with holder

1SFC151479V0001



P9M-EM3GN

1SFC151608V0001



P9M-EM4VN

1SFC151600V0001



P9M-EM6GN

1SFC151596V0001



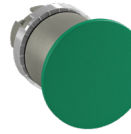
P9M-EM6NN

1SFC151595V0001



P9M-ER4RN

1SFC151441V0001



P9M-ET4VN1

1SFC151591V0001



P9M-ET4NN1

1SFC151592V0001



P9M-EC4RN01

1SFC151468V0001



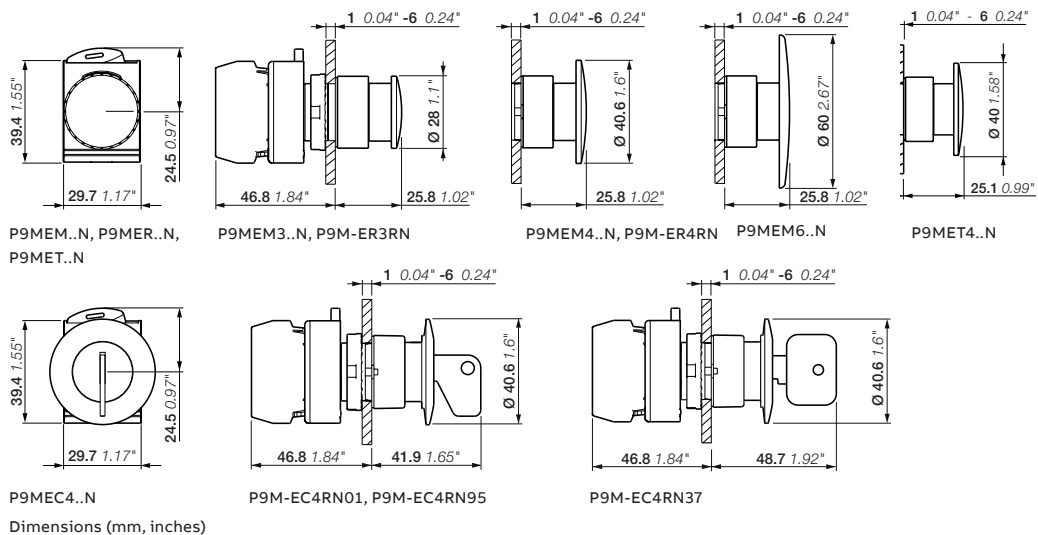
P9M-EC4RN37

1SFC151467V0001

Description

Each reference includes the satin chrome metal body and nut together with the holder.

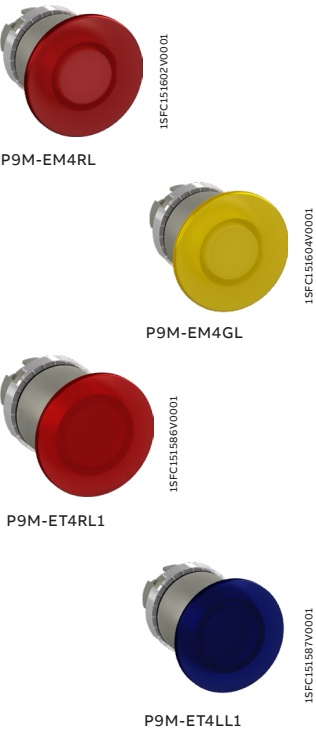
Color	Release method	Type	Order code	Pkg qty	Weight (1 pce) kg
Momentary					
Ø 28 mm					
Red	–	P9M-EM3RN	1SFA184031R9001	1	0.060
Green	–	P9M-EM3VN	1SFA184032R9002	1	0.060
Yellow	–	P9M-EM3GN	1SFA184033R9003	1	0.060
Black	–	P9M-EM3NN	1SFA184030R9006	1	0.060
Ø 40 mm					
Red	–	P9M-EM4RN	1SFA184041R9001	1	0.061
Green	–	P9M-EM4VN	1SFA184042R9002	1	0.061
Yellow	–	P9M-EM4GN	1SFA184043R9003	1	0.061
Black	–	P9M-EM4NN	1SFA184040R9006	1	0.061
Ø 60 mm					
Red	–	P9M-EM6RN	1SFA184051R9001	1	0.070
Green	–	P9M-EM6VN	1SFA184052R9002	1	0.070
Yellow	–	P9M-EM6GN	1SFA184053R9003	1	0.070
Black	–	P9M-EM6NN	1SFA184050R9006	1	0.070
Maintained					
Ø 28 mm					
Red	Twist release	P9M-ER3RN	1SFA184070R9001	1	0.066
Ø 40 mm					
Red	Pull release	P9M-ET4RN1	1SFA184061R9001	1	0.069
	Twist release	P9M-ER4RN	1SFA184071R9001	1	0.069
Green	Pull release	P9M-ET4VN1	1SFA184062R9002	1	0.069
Yellow	Pull release	P9M-ET4GN1	1SFA184063R9003	1	0.069
Black	Pull release	P9M-ET4NN1	1SFA184060R9006	1	0.069
Maintained with key					
Ø 40 mm					
Red	Key code 01	P9M-EC4RN01	1SFA192000R9001	1	0.090
	Key code 37	P9M-EC4RN37	1SFA192012R9001	1	0.090
	Key code 95	P9M-EC4RN95	1SFA184073R9001	1	0.090



03

Modular metal range

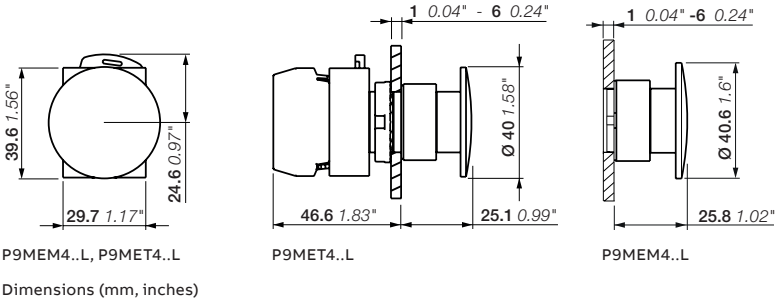
Illuminated mushroom pushbuttons



Description

Each reference includes the satin chrome metal body and nut together with the holder.

Color	Release method	Type	Order code	Pkg qty	Weight (1 pce) kg
Momentary					
Ø 40 mm					
Red	–	P9M-EM4RL	1SFA184551R9101	1	0.062
Green	–	P9M-EM4VL	1SFA184552R9102	1	0.062
Yellow	–	P9M-EM4GL	1SFA184553R9103	1	0.062
Blue	–	P9M-EM4LL	1SFA184556R9104	1	0.062
Maintained					
Ø 40 mm					
Red	Pull release	P9M-ET4RL1	1SFA184561R9101	1	0.062
Green	Pull release	P9M-ET4VL1	1SFA184562R9102	1	0.062
Yellow	Pull release	P9M-ET4GL1	1SFA184563R9103	1	0.062
Blue	Pull release	P9M-ET4LL1	1SFA184566R9104	1	0.062



Modular metal range

Pilot lights



P9M-LBD
with holder

1SFC151478V0001



P9M-LRD

1SFC151579V0001



P9M-LVD

1SFC151578V0001



P9M-LGD

1SFC151582V0001



P9M-LLD

1SFC151580V0001



P9M-LID

1SFC151581V0001



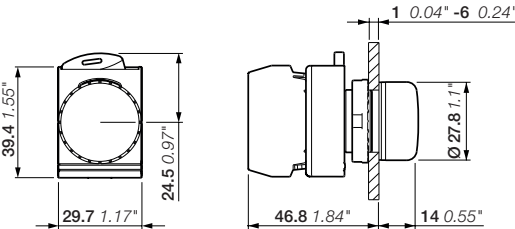
P9M-LAD

1SFC151584V0001

Description

Each reference includes the satin chrome metal body and nut together with the holder.

Color	Type	Order code	Pkg qty	Weight (1 pce) kg
Operator–Plastic lens type				
● Red	P9M-LRD	1SFA184791R9001	1	0.050
● Green	P9M-LVD	1SFA184792R9002	1	0.050
● Yellow	P9M-LGD	1SFA184793R9003	1	0.050
● Blue	P9M-LLD	1SFA184796R9004	1	0.050
○ White	P9M-LBD	1SFA184797R9005	1	0.050
○ Clear	P9M-LID	1SFA184798R9008	1	0.050
● Orange	P9M-LAD	1SFA184795R9009	1	0.050



P9ML...D

Dimensions (mm, inches)

Modular metal range

Non-illuminated selector switches–2-position



P9M-SMI0N
with holder

1SFC151471V0001



P9M-SMI0N

1SFC151508V0001



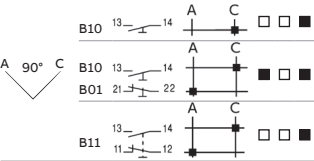
P9M-SMD0R

1SFC151506V0001

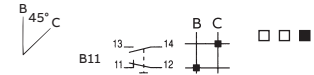
Electrical diagram

Positions	Contacts	Position on flange
		2 3 1

CAM function D



CAM function I



Note: dot in this diagram = contact closed.
B10 = P9B-10VN, P9B-10FN contact blocks
B01 = P9B-01VN, P9B-01FN contact blocks
B11 = P9B-11VN contact blocks

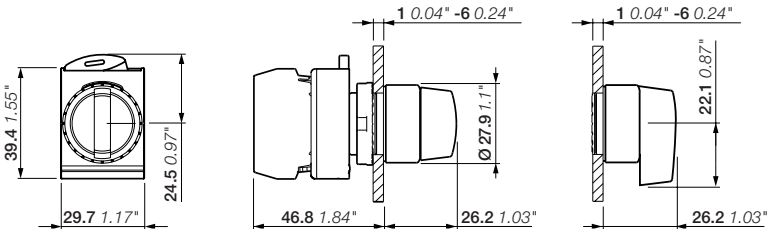
Description

Each reference includes the satin chrome metal body and nut together with the holder.

Operating principle	Color	CAM function	Type	Order code	Pkg qty	Weight (1 pce) kg
Short handle						
	Yellow	I	P9M-SMI0G	1SFA184123R9003	1	0.065
	Black	I	P9M-SMI0N	1SFA184120R9006	1	0.065
	Red	D	P9M-SMD0R	1SFA184111R9001	1	0.065
	Black	D	P9M-SMD0N	1SFA184110R9006	1	0.065
	Red	I	P9M-SMI5R	1SFA184151R9001	1	0.065
	Green	I	P9M-SMI5V	1SFA184152R9002	1	0.065
	Black	I	P9M-SMI5N	1SFA184150R9006	1	0.065
	Red	D	P9M-SMD5R	1SFA184141R9001	1	0.065
	Yellow	D	P9M-SMD5G	1SFA184143R9003	1	0.065
	Black	D	P9M-SMD5N	1SFA184140R9006	1	0.065

Long handle

	Black	I	P9M-SVI0N	1SFA184371R9006	1	0.068
	Yellow	D	P9M-SVD0G	1SFA184822R9003		
	Black	D	P9M-SVD0N	1SFA184370R9006	1	0.068
	Black	I	P9M-SVI5N	1SFA184374R9006	1	0.068
	Black	D	P9M-SVD5N	1SFA184373R9006	1	0.068



P9MSM, P9MSV

Dimensions (mm, inches)

Modular metal range

Illuminated selector switches–2-position



P9M-SLD0R

1SFC151511V0001



P9M-SLD0G

1SFC151509V0001



P9M-SLD0B

1SFC151510V0001



P9M-SLD0A

1SFC151512V0001



P9M-SAD0V

1SFC151494V0001

Description

Each reference includes the satin chrome metal body and nut together with the holder.

Operating principle	Color	CAM function	Type	Order code	Pkg qty	Weight (1 pce) kg
---------------------	-------	--------------	------	------------	---------	-------------------

Short handle

	● Red	D	P9M-SLD0R	1SFA184591R9101	1	0.059
	● Green	D	P9M-SLD0V	1SFA184592R9102	1	0.059
	● Yellow	D	P9M-SLD0G	1SFA184593R9103	1	0.059
	● Blue	D	P9M-SLD0L	1SFA184596R9104	1	0.059
	○ White	D	P9M-SLD0B	1SFA184597R9105	1	0.059
	● Orange	D	P9M-SLD0A	1SFA184595R9109	1	0.059
	○ Clear	D	P9M-SLD0I	1SFA184598R9108	1	0.059

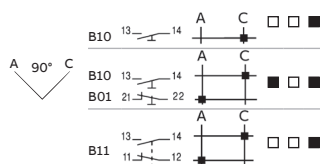
Long handle

	● Red	D	P9M-SAD0R	1SFA184641R9101	1	0.060
	● Green	D	P9M-SAD0V	1SFA184642R9102	1	0.060
	● Blue	D	P9M-SAD0L	1SFA184646R9104	1	0.060
	○ White	D	P9M-SAD0B	1SFA184647R9105	1	0.060

Electrical diagram

Positions	Contacts	Position on flange
		2 3 1

CAM function D

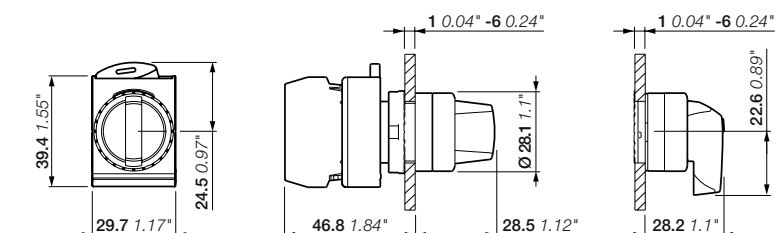


Note: dot in this diagram = contact closed.

B10 = P9B-10VN, P9B-10FN contact blocks

B01 = P9B-01VN, P9B-01FN contact blocks

B11 = P9B-11VN contact blocks



P9MSL, P9MSA

Dimensions (mm, inches)

Modular metal range

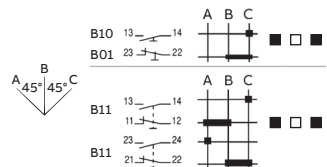
Non-illuminated selector switches-3-position



Electrical diagram

Positions	Contacts	Position on flange
		2 3 1

CAM function Z

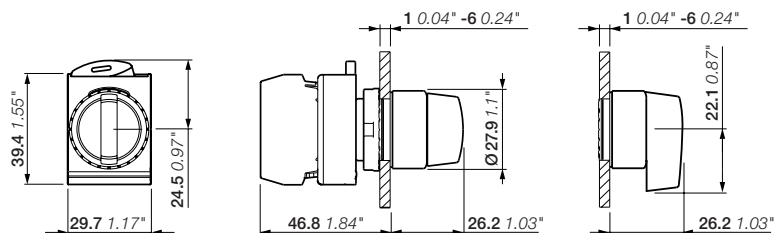


Note: dot in this diagram = contact closed.
 B10 = P9B-10VN, P9B-10FN contact blocks
 B01 = P9B-01VN, P9B-01FN contact blocks
 B11 = P9B-11VN contact blocks

Description

Each reference includes the satin chrome metal body and nut together with the holder.

Operating principle	Color	CAM function	Type	Order code	Pkg qty	Weight (1 pce) kg
Short handle						
	● Red	Z	P9M-SMZ0R	1SFA184201R9001	1	0.065
	● Black	Z	P9M-SMZ0N	1SFA184200R9006	1	0.065
	● Red	Z	P9M-SMZ3R	1SFA184321R9001	1	0.065
	● Black	Z	P9M-SMZ3N	1SFA184320R9006	1	0.065
	● Black	Z	P9M-SMZ5N	1SFA184280R9006	1	0.065
	● Red	Z	P9M-SMZ1R	1SFA184241R9001	1	0.065
	● Black	Z	P9M-SMZ1N	1SFA184240R9006	1	0.065
Long handle						
	● Red	Z	P9M-SVZ0R	1SFA184856R9001	1	0.068
	● Black	Z	P9M-SVZ0N	1SFA184379R9006	1	0.068
	● Black	Z	P9M-SVZ3N	1SFA184391R9006	1	0.068
	● Black	Z	P9M-SVZ5N	1SFA184387R9006	1	0.068
	● Black	Z	P9M-SVZ1N	1SFA184383R9006	1	0.068



P9MSM, P9MSV

Dimensions (mm, inches)

Modular metal range

Illuminated selector switches–3-position



P9M-SLZ0R

1SFC15151V0001



P9M-SLZ0G

1SFC151509V0001



P9M-SLZ0B

1SFC151510V0001



P9M-SLZ3V

1SFC151513V0001



P9M-SAZ0V

1SFC151494V0001



P9M-SAZ0B

1SFC151497V0001



P9M-SAZ3A

1SFC151493V0001

Description

Each reference includes the satin chrome metal body and nut together with the holder.

Operating principle	Color	CAM function	Type	Order code	Pkg qty	Weight (1 pce) kg
Short handle						
	Red	Z	P9M-SLZ0R	1SFA184601R9101	1	0.065
	Green	Z	P9M-SLZ0V	1SFA184602R9102	1	0.065
	Yellow	Z	P9M-SLZ0G	1SFA184603R9103	1	0.065
	Blue	Z	P9M-SLZ0L	1SFA184606R9104	1	0.065
	White	Z	P9M-SLZ0B	1SFA184607R9105	1	0.065
	Orange	Z	P9M-SLZ0A	1SFA184605R9109	1	0.065
	Red	Z	P9M-SLZ3R	1SFA184631R9101	1	0.065
	Green	Z	P9M-SLZ3V	1SFA184632R9102	1	0.065
	Yellow	Z	P9M-SLZ3G	1SFA184633R9103	1	0.065
	Blue	Z	P9M-SLZ3L	1SFA184636R9104	1	0.065
	White	Z	P9M-SLZ3B	1SFA184637R9105	1	0.065
	Orange	Z	P9M-SLZ3A	1SFA184635R9109	1	0.065
	Clear	Z	P9M-SLZ3I	1SFA184638R9108	1	0.065
	Red	Z	P9M-SLZ5R	1SFA184621R9101	1	0.065
	Green	Z	P9M-SLZ5V	1SFA184622R9102	1	0.065
	Blue	Z	P9M-SLZ5L	1SFA184626R9104	1	0.065
	Clear	Z	P9M-SLZ5I	1SFA184628R9108	1	0.065
	Red	Z	P9M-SLZ1R	1SFA184611R9101	1	0.065
	Green	Z	P9M-SLZ1V	1SFA184612R9102	1	0.065
	Yellow	Z	P9M-SLZ1G	1SFA184613R9103	1	0.065
	Blue	Z	P9MSLZ1L	1SFA184616R9104	1	0.065
	White	Z	P9M-SLZ1B	1SFA184617R9105	1	0.065

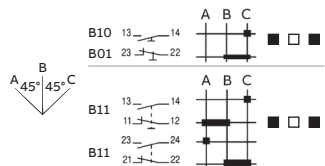
Long handle

	Green	Z	P9M-SAZ0V	1SFA184652R9102	1	0.068
	White	Z	P9M-SAZ0B	1SFA184657R9105	1	0.068
	Green	Z	P9M-SAZ3V	1SFA184682R9102	1	0.068
	White	Z	P9M-SAZ3B	1SFA184687R9105	1	0.068
	Orange	Z	P9M-SAZ3A	1SFA184685R9109	1	0.068

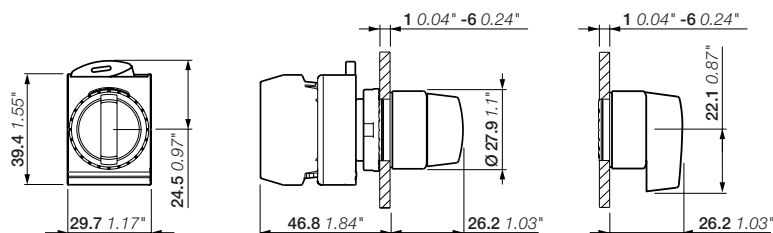
Electrical diagram

Positions	Contacts	Position on flange
		2 3 1

CAM function Z



Note: dot in this diagram = contact closed.
 B10 = P9B-10VN, P9B-10FN contact blocks
 B01 = P9B-01VN, P9B-01FN contact blocks
 B11 = P9B-11VN contact blocks



P9MSL, P9MSA

Dimensions (mm, inches)

Modular metal range

Non-illuminated selector switches–4-position



1SFC151471V0001

P9M-SMX0N
with holder



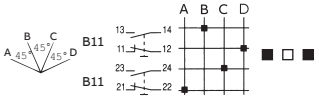
P9M-SMX0N

1SFC151508V0001

Electrical diagram

Positions	Contacts	Position on flange
		2 3 1

CAM function X



Note: dot in this diagram = contact closed.
B10 = P9B-10VN, P9B-10FN contact blocks
B01 = P9B-01VN, P9B-01FN contact blocks
B11 = P9B-11VN contact blocks

Description

Each reference includes the satin chrome metal body and nut together with the holder.

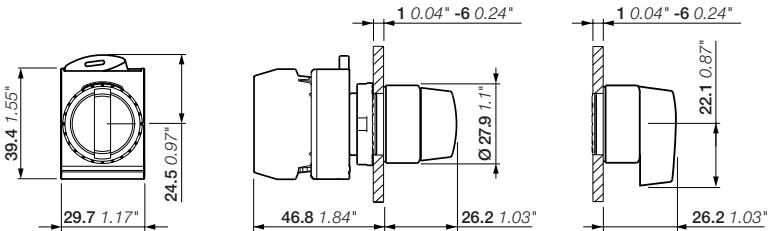
Operating principle	Color	CAM function	Type	Order code	Pkg qty	Weight (1 pce) kg
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Short handle

	● Black	X	P9M-SMX0N	1SFA184397R9006	1	0.065
	● Black	X	P9M-SMX5N	1SFA184340R9006	1	0.065

Long handle

	● Black	X	P9M-SVX0N	1SFA184392R9006	1	0.068
	● Black	X	P9M-SVX5N	1SFA184393R9006	1	0.068



P9MSM, P9MSV
Dimensions (mm, inches)

Modular metal range

Non-illuminated selector switches–5-position



Description

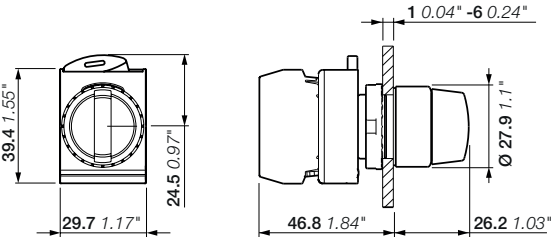
Each reference includes the satin chrome metal body and nut together with the holder.

Operating principle	Color	CAM function	Type	Order code	Pkg qty	Weight (1 pce) kg
Short handle						
	● Black	W	P9M-SMW0N	1SFA184360R9006	1	0.065
	● Red	Y	P9M-SMY0R	1SFA184351R9001	1	0.065
	● Black	Y	P9M-SMY0N	1SFA184350R9006	1	0.065

Electrical diagram

Positions	Contacts	Position on flange 2 3 1
CAM function Y		
		■ □ ■
CAM function W		
		■ □ ■

Note: dot in this diagram = contact closed.
B10 = P9B-10VN, P9B-10FN contact blocks
B01 = P9B-01VN, P9B-01FN contact blocks
B11 = P9B-11VN contact blocks



P9MSM
Dimensions (mm, inches)

Modular metal range
Key-operated selector switches–2-position



P9M-SCI0C37
with holder

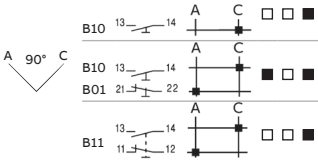


P9M-SCI0C95

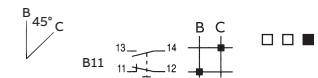
Electrical diagram

Positions	Contacts	Position on flange
		2 3 1

CAM function D



CAM function I

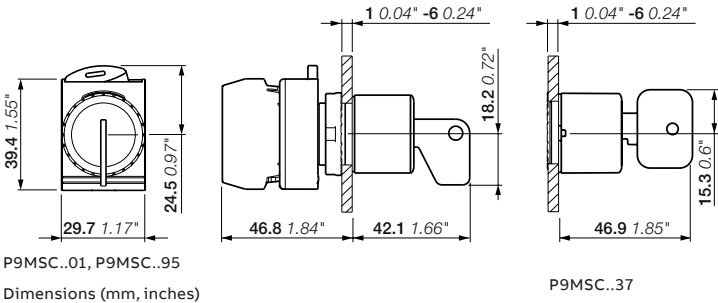


Note: dot in this diagram = contact closed.
B10 = P9B-10VN, P9B-10FN contact blocks
B01 = P9B-01VN, P9B-01FN contact blocks
B11 = P9B-11VN contact blocks

Description

Each reference includes the satin chrome metal body and nut together with the holder, 2 keys included.

Operating principle	Key code	Key head color	CAM function	Type	Order code	Pkg qty	Weight (1 pce) kg
	37	Red/Metal	I	P9M-SCI0C37	1SFA192162R9006	1	0.120
	01	Metal	I	P9M-SCI0C01	1SFA192150R9006	1	0.120
	95	Metal	I	P9M-SCI0C95	1SFA184403R9006	1	0.120
	01	Metal	I	P9M-SCI0E01	1SFA192165R9006	1	0.120
	95	Metal	I	P9M-SCI0E95	1SFA184404R9006	1	0.120
	95	Metal	I	P9M-SCI0N95	1SFA184405R9006	1	0.120
	37	Red/Metal	D	P9M-SCD0A37	1SFA192117R9006	1	0.120
	01	Metal	D	P9M-SCD0A01	1SFA192105R9006	1	0.120
	95	Metal	D	P9M-SCD0A95	1SFA184400R9006	1	0.120
	01	Metal	D	P9M-SCD0E01	1SFA192120R9006	1	0.120
	95	Metal	D	P9M-SCD0E95	1SFA184401R9006	1	0.120
	37	Red/Metal	D	P9M-SCD0K37	1SFA192147R9006	1	0.120
	01	Metal	D	P9M-SCD0K01	1SFA192135R9006	1	0.120
	95	Metal	D	P9M-SCD0K95	1SFA184402R9006	1	0.120
	37	Red/Metal	I	P9M-SCI5C37	1SFA192267R9006	1	0.120
	01	Metal	I	P9M-SCI5C01	1SFA192255R9006	1	0.120
	95	Metal	I	P9M-SCI5C95	1SFA184410R9006	1	0.120
	37	Red/Metal	D	P9M-SCD5A37	1SFA192252R9006	1	0.120
	01	Metal	D	P9M-SCD5A01	1SFA192240R9006	1	0.120
	95	Metal	D	P9M-SCD5A95	1SFA184409R9006	1	0.120
	33	Yellow	D	P9MSCD5A33	1SFA192250R9006	1	0.120



Modular metal range

Key-operated selector switches–3-position



P9M-SCZ0T37
with holder

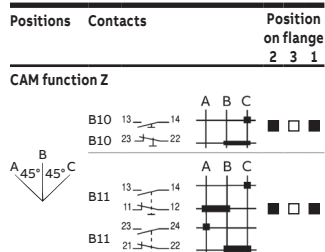
1SFC151469W0001



P9M-SCZ0T95

1SFC151470W0001

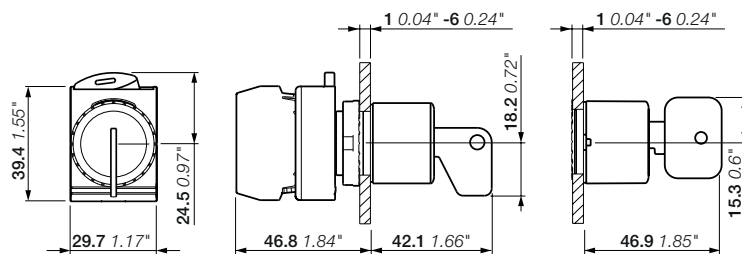
Electrical diagram



Description

Each reference includes the satin chrome metal body and nut together with the holder, 2 keys included.

Operating principle	Key code	Key head color	CAM function	Type	Order code	Pkg qty	Weight (1 pce) kg
 Key can be removed in all positions	37	Red/Metal	Z	P9M-SCZ0T37	1SFA192702R9006	1	0.120
	01	Metal	Z	P9M-SCZ0T01	1SFA192690R9006	1	0.120
	95	Metal	Z	P9M-SCZ0T95	1SFA184439R9006	1	0.120
Key can be removed in A position only	95	Metal	Z	P9M-SCZ0A95	1SFA184433R9006	1	0.120
Key can be removed in B position only	95	Metal	Z	P9M-SCZ0C95	1SFA184434R9006	1	0.120
Key can be removed in A and B positions	95	Metal	Z	P9M-SCZ0H95	1SFA184436R9006	1	0.120
Key can be removed in B and C positions	95	Metal	Z	P9M-SCZ0N95	1SFA184438R9006	1	0.120
 Key can be removed in position B only	95	Metal	Z	P9M-SCZ1C95	1SFA184449R9006	1	0.120
Key can be removed in A and C positions	95	Metal	Z	P9M-SCZ1N95	1SFA184451R9006	1	0.120



P9MSC..01, P9MSC..95
Dimensions (mm, inches)

P9MSC..37

Modular metal range

Key-operated selector switches–3-position



P9M-SCZ3C01
with holder

SFC151470V0001

Electrical diagram

Positions **Contacts** **Position on flange**
2 3 1

CAM function Z

B10 13 — 14 A B C
 23 — 22 | | |

B10 23 — 22 | | |

B11 13 — 14 A B C
 11 — 12 | | |

B11 23 — 24 | | |
 21 — 22 | | |

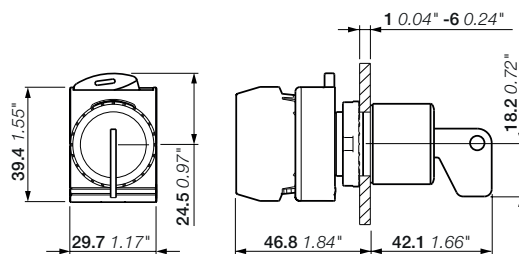
A 45° B 45° C

Note: dot in this diagram = contact closed.
 B10 = P9B-10VN, P9B-10FN contact blocks
 B01 = P9B-01VN, P9B-01FN contact blocks
 B11 = P9B-11VN contact blocks

Description

Each reference includes the satin chrome metal body and nut together with the holder, 2 keys included.

Operating principle	Key code	Key head color	CAM function	Type	Order code	Pkg qty	Weight (1 pce) kg
 Key can be removed in B position only	01	Metal	Z	P9M-SCZ3C01	1SFA193110R9006	1	0.120
Key can be removed in B position only	95	Metal	Z	P9M-SCZ3C95	1SFA184467R9006	1	0.120
 Key can be removed in A position only	01	Metal	Z	P9M-SCZ5A01	1SFA193020R9006	1	0.120
Key can be removed in B position only	95	Metal	Z	P9M-SCZ5A95	1SFA184461R9006	1	0.120
Key can be removed in A and B positions	01	Metal	Z	P9M-SCZ5H01	1SFA193050R9006	1	0.120
	95	Metal	Z	P9M-SCZ5H95	1SFA184463R9006	1	0.120



P9MSC..01, P9MSC..95
Dimensions (mm, inches)

Modular metal range

Key-operated selector switches–4-position



P9M-SCX0A95
with holder

15FC151470V0001

15FC151516V0001

Description

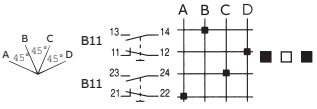
Each reference includes the satin chrome metal body and nut together with the holder, 2 keys included.

Operating principle	Key code	Key head color	CAM function	Type	Order code	Pkg qty	Weight (1 pce) kg
	95	Metal	X	P9M-SCX0A95	1SFA184468R9006	1	0.120
	Key can be removed in A position						
Key can be removed in all positions	01	Metal	X	P9M-SCX0Z01	1SFA193335R9006	1	0.120
	95	Metal	X	P9M-SCX0Z95	1SFA184482R9006	1	0.120

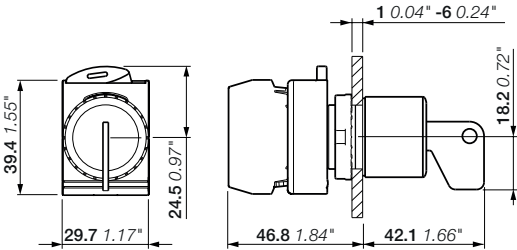
Electrical diagram

Positions	Contacts	Position on flange
		2 3 1

CAM function X



Note: dot in this diagram = contact closed.
B11 = P9B-11VN contact blocks



P9MSC..01, P9MSC..95
Dimensions (mm, inches)

15XPI50001C0201

Modular metal range

Joysticks–2-position and 4-position



P9M-MN2A
with holder



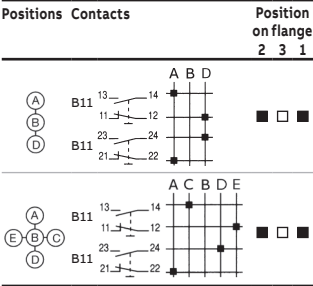
P9M-MB2FG

Description

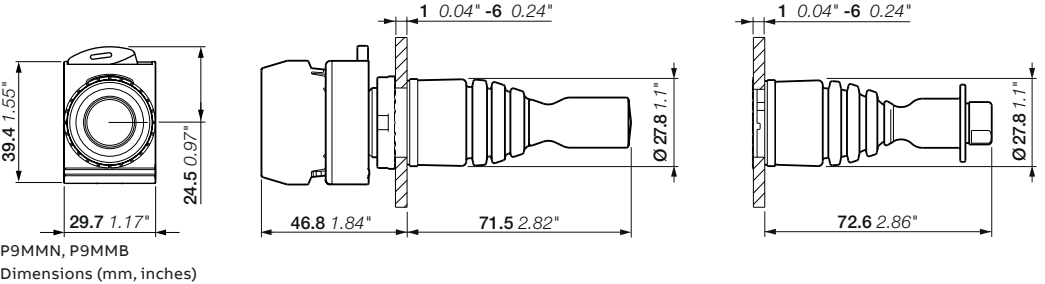
Each reference includes the satin chrome metal body and nut together with the holder.

Position	Material Color	Type	Order code	Pkg qty	Weight (1 pce) kg
Without latching function					
	Rubber/Black	P9M-MN2F	1SFA184700R9006	1	0.090
	Rubber/Black	P9M-MN2T	1SFA184701R9006	1	0.090
	Rubber/Black	P9M-MN2A	1SFA184702R9006	1	0.090
	Rubber/Black	P9M-MN2B	1SFA184703R9006	1	0.090
	Rubber/Black	P9M-MN4F	1SFA184720R9006	1	0.090
	Rubber/Black	P9M-MN4T	1SFA184721R9006	1	0.090
	Silicone/Grey	P9M-MN4TG	1SFA184716R9006	1	0.090
With latching function					
	Rubber/Black	P9M-MB2F	1SFA184710R9006	1	0.090
	Silicone/Grey	P9M-MB2FG	1SFA184709R9006	1	0.090
	Rubber/Black	P9M-MB2T	1SFA184711R9006	1	0.090
	Rubber/Black	P9M-MB2A	1SFA184712R9006	1	0.090
	Rubber/Black	P9M-MB4F	1SFA184740R9006	1	0.090
	Rubber/Black	P9M-MB4T	1SFA184741R9006	1	0.090
	Silicone/Grey	P9M-MB4TG	1SFA184744R9006	1	0.090

Electrical diagram



Note: dot in this diagram = contact closed.
B11= P9B-11VN contact blocks



Modular metal range

Joysticks–Accessories



1SFC1515435V0001

P9A-RSCMN



1SFC151614V0001

P9A-RSCMB



1SFC1515434V0001

P9A-RSGMN



1SFC151613V0001

P9A-RSGMB

Accessories

Description	Color	Type	Order code	Pkg qty	Weight (1 pce) kg
Rubber boot for joystick without latching	● Black	P9A-RSCMN	1SFA188043R8000	5	0.008
Rubber boot for joystick with latching	● Black	P9A-RSCMB	1SFA188044R8000	5	0.008
Silicone boot for joystick without latching	● Grey	P9A-RSGMN	1SFA187495R8000	5	0.008
Silicone boot for joystick with latching	● Grey	P9A-RSGMB	1SFA187496R8000	5	0.008

Modular metal range

Toggle switches

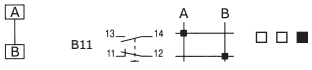


P9M-CB
with holder

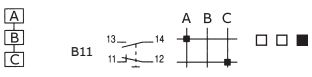
Contacts actuated

Positions	Contacts	Position on flange
		2 3 1

CAM function D



CAM function B

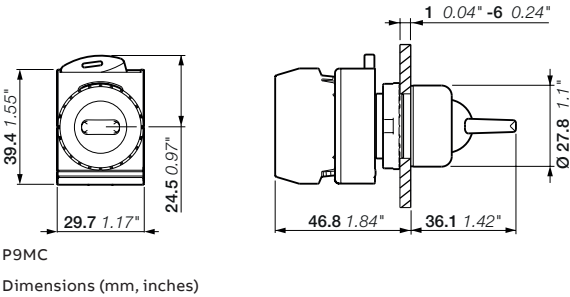


B11 = P9B-11VN contact blocks

Description

Each reference includes the satin chrome metal body and nut together with the holder.

Operating principle	CAM function	Type	Order code	Pkg qty	Weight (1 pce) kg
2 position					
	D	P9M-CD	1SFA184695R9006	1	0.073
3 position					
	B	P9M-CB	1SFA184696R9006	1	0.073
	B	P9M-CC	1SFA184697R9006	1	0.073



P9MC
Dimensions (mm, inches)

Modular metal range
Selector pushbuttons

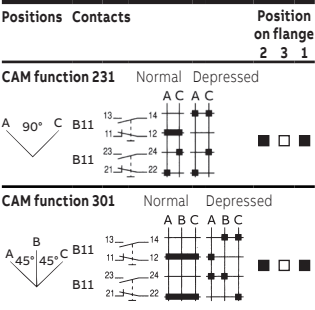


P9M-PS22G
with holder

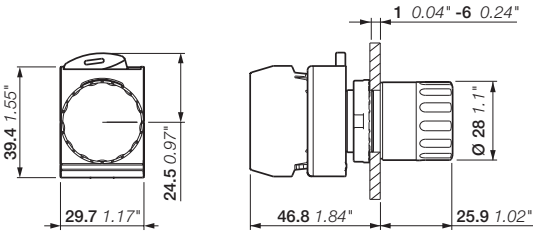
Description
Each reference includes the satin chrome metal body and nut together with the holder.

Operating principle	CAM function	Type	Order code	Pkg qty	Weight (1 pce) kg
2 position					
	231	P9M-PS22G	1SFA184691R9006	1	0.069
3 position					
	301	P9M-PS34G	1SFA184693R9006	1	0.065

Electrical diagram



Note: dot in this diagram = contact closed.
B11 = P9B-11VN contact blocks



P9MPS
Dimensions (mm, inches)

Modular metal range

Holders and contact blocks for front mounting



1SFC151627V0001

P9A-CFS3



1SFC151626V0001

P9A-CFS5



1SFC151611V0001

P9B-10VN



1SFC151610V0001

P9B-20VN



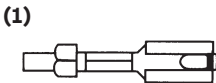
1SFC151611V0001

P9B-10VA



1SFC151612V0001

P9B-10FN



1x (6.35 x 0.8 mm)
2x (2.8 x 0.8 mm)

Screw terminals

Description	Contacts	Type	Order code	Pkg qty	Weight (1 pce)
					kg

Holders

3-position	- -	P9A-CFS3	1SFA187841R8000	1	0.009
5-position	- -	P9A-CFS5	1SFA187842R8000	1	0.016

Single contact blocks

For 3 & 5-position holder	1 0	P9B-10VN	1SFA187002R8001	1	0.009
	1 0	P9B-10VN-AA	1SFA215832R8001	200	0.009
	0 1	P9B-01VN	1SFA187001R8010	1	0.009

Double contact blocks

For 3 & 5-position holder	2 0	P9B-20VN	1SFA187009R8002	1	0.016
	0 2	P9B-02VN	1SFA187008R8020	1	0.016
	0 2	P9B-02VN-AA	1SFA205236R8020	200	0.016
	1 1	P9B-11VN	1SFA187000R8011	1	0.016
	1 1	P9B-11VN-AA	1SFA242712R8011	500	0.016

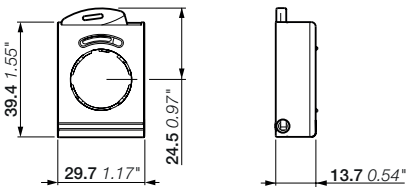
Single contact blocks with N.O. early make contacts and N.C. late break contacts

For 3 & 5-position holder	1 0	P9B-10VA	1SFA187004R8201	1	0.009
	0 1	P9B-01VR	1SFA187003R8110	1	0.010

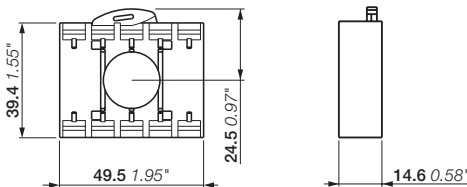
Faston terminals

Single contact blocks (1)

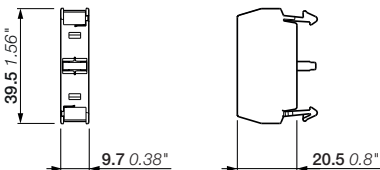
For 3 & 5-position holder	1 0	P9B-10FN	1SFA187013R8301	1	0.009
	1 0	P9B-10FN-AA	1SFA215835R8301	200	0.009
	0 1	P9B-01FN	1SFA187012R8310	1	0.009



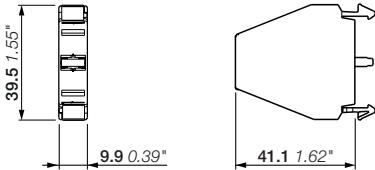
P9A-CFS3



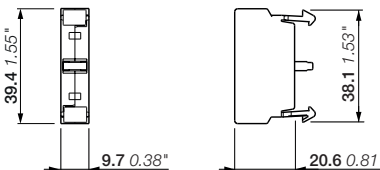
P9A-CFS5



P9B-10VN, P9B-01VN, P9B-10VA, P9B-01VR



P9B-20VN, P9B-02VN, P9B-11VN



P9B-10FN, P9B-01FN

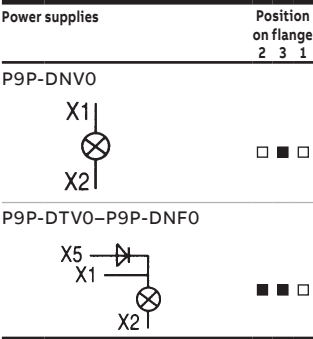
Dimensions (mm, inches)

Modular metal range

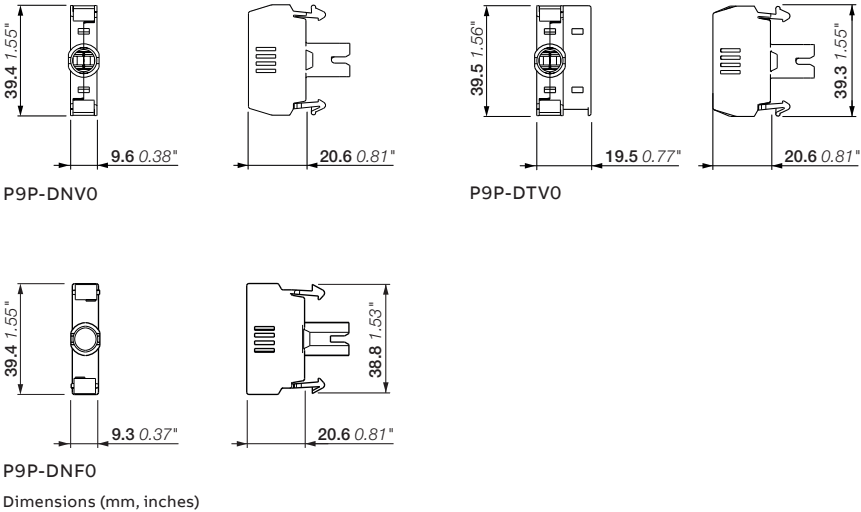
Power supplies



Contacts actuated



Description	Type	Order code	Pkg qty	Weight (1 pce) kg
Screw terminals				
Full voltage	P9P-DNV0	1SFA187020R1080	1	0.010
IEC: BA9S max 380 V–2 W bulb not included	P9P-DNV0-AA	1SFA215831R1000	100	0.010
UL–CSA: BA9S max 250 V–2 W bulb not included				
Test full voltage	P9P-DTV0	1SFA187027R8000	1	0.018
IEC: BA9S max 380 V–2 W bulb not included				
UL–CSA: BA9S max 250 V–2 W bulb not included				
Note: P9P-DTV0 are not included in UL listing.				
Faston terminals				
Full voltage	P9P-DNF0	1SFA187055R1300	1	0.013
IEC: BA9S max 380 V–2 W bulbs not included	P9P-DNF0-AA	1SFA215834R1300	100	0.013
UL–CSA: BA9S max 250 V...–2 W bulbs not included				



Modular metal range

LED bulbs for power supplies



BA9S-6LEDB

1SFA187163R1001

03

Color	Type	Order code	Pkg qty	Weight (1 pce) kg
Rated voltage 6 V AC/DC				
● Red	BA9S-6LEDR	1SFA187163R1001	5	0.002
● Green	BA9S-6LEDV	1SFA187164R1002	5	0.002
● Yellow	BA9S-6LEDG	1SFA187161R1003	5	0.002
● Blue	BA9S-6LEDL	1SFA187162R1004	5	0.002
○ White	BA9S-6LEDB	1SFA187160R1005	5	0.002
Rated voltage 12 V AC/DC				
● Red	BA9S-12LEDR	1SFA187168R1011	5	0.002
● Green	BA9S-12LEDV	1SFA187169R1012	5	0.002
● Yellow	BA9S-12LEDG	1SFA187166R1013	5	0.002
● Blue	BA9S-12LEDL	1SFA187167R1014	5	0.002
○ White	BA9S-12LEDB	1SFA187165R1015	5	0.002
Rated voltage 24 V AC/DC				
● Red	BA9S-24LEDR	1SFA187173R1021	5	0.002
● Green	BA9S-24LEDV	1SFA187174R1022	5	0.002
● Yellow	BA9S-24LEDG	1SFA187171R1023	5	0.002
● Blue	BA9S-24LEDL	1SFA187172R1024	5	0.002
○ White	BA9S-24LEDB	1SFA187170R1025	5	0.002
Rated voltage 48 V AC/DC				
● Red	BA9S-48LEDR	1SFA187178R1031	5	0.002
● Green	BA9S-48LEDV	1SFA187179R1032	5	0.002
● Yellow	BA9S-48LEDG	1SFA187176R1033	5	0.002
● Blue	BA9S-48LEDL	1SFA187177R1034	5	0.002
○ White	BA9S-48LEDB	1SFA187175R1035	5	0.002
Rated voltage 60 V AC/DC				
○ White	BA9S-60LED	1SFA187191R1045	5	0.002
Rated voltage 110–120 V AC/DC				
● Red	BA9S-110LEDR	1SFA187183R1041	5	0.002
● Green	BA9S-110LEDV	1SFA187184R1042	5	0.002
● Yellow	BA9S-110LEDG	1SFA187181R1043	5	0.002
● Blue	BA9S-110LEDL	1SFA187182R1044	5	0.002
○ White	BA9S-110LEDB	1SFA187180R1045	5	0.002
Rated voltage 130 V AC/DC				
○ White	BA9S-130LED	1SFA187190R1045	5	0.002
Rated voltage 230 V AC				
● Red	BA9S-230LEDR	1SFA187188R1051	5	0.002
● Green	BA9S-230LEDV	1SFA187189R1052	5	0.002
● Yellow	BA9S-230LEDG	1SFA187186R1053	5	0.002
● Blue	BA9S-230LEDL	1SFA187187R1054	5	0.002
○ White	BA9S-230LEDB	1SFA187185R1055	5	0.002

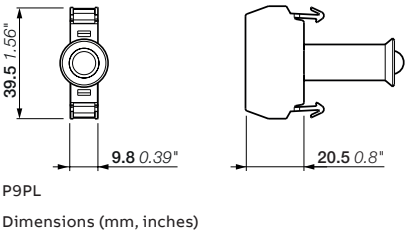
Modular metal range

LED blocks for front mounting



Standard Light

Color	Type	Order code	Pkg qty	Weight (1 pce) kg
Rated voltage 24 V AC/DC				
● Red	P9P-LNVDR	1SFA197004R1011	1	0.020
● Green	P9P-LNVDV	1SFA197005R1012	1	0.020
● Yellow	P9P-LNVDG	1SFA197002R1013	1	0.020
● Blue	P9P-LNVDL	1SFA197003R1014	1	0.020
○ White	P9P-LNVDB	1SFA197001R1015	1	0.020
Rated voltage 120 V AC				
● Red	P9P-LNVJR	1SFA197010R1041	1	0.020
● Green	P9P-LNVJV	1SFA197011R1042	1	0.020
● Yellow	P9P-LNVJG	1SFA197008R1043	1	0.020
● Blue	P9P-LNVJL	1SFA197009R1044	1	0.020
○ White	P9P-LNVJB	1SFA197007R1045	1	0.020
Rated voltage 230 V AC				
● Red	P9P-LNVNR	1SFA197016R1071	1	0.020
● Green	P9P-LNVNV	1SFA197017R1072	1	0.020
● Yellow	P9P-LNVNG	1SFA197014R1073	1	0.020
● Blue	P9P-LNVNL	1SFA197015R1074	1	0.020
○ White	P9P-LNVNB	1SFA197013R1075	1	0.020



Modular metal range

Accessories



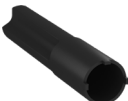
P9A-CRCL

15FCL151463V0001



P9A-CDPP

15FCL151628V0001



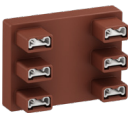
P9A-CWAF

15FCL151625V0001



P9A-RAM32

15FCL151464V0001



P9A-CA6

15FCL151462V0001



080CP-R

15FCL151450V0001



080CP-N

15FCL151461V0001



P9A-RCST

15FCL151465V0001

Description	Contacts	Type	Order code	Pkg qty	Weight (1 pce)
					kg

Protection cover

Protection cover padlockable for standard pushbuttons, illuminated pushbuttons, selector switches, illuminated selector switches	P9A-CRCL	1SFA187840R8000	1	0.039
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Maintained accessory

Device for standard pushbuttons, illuminated pushbuttons: To be used only with contact blocks P9B-01VN, P9B-01VR, P9B-10VA and P9B-01FN	P9A-CDPP	1SFA187843R8000	1	0.012
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Tools

Locking ring wrench	P9A-CWAF	1SFA187845R8000	1	0.037
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Adapter ring

Adapter ring for 30 mm hole to mount P9 22 mm in a 30 mm hole	P9A-RAM32	1SFA188801R8000	5	0.006
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Terminal adapter

PCB adapter for faston contacts	P9A-CA6	1SFA188804R8000	5	0.051
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Rubber protective caps (IP66) for standard pushbuttons

Flush pushbuttons

Description	Type	Order code	Pkg qty	Weight (1 pce)
nutrillic rubber				
● Red	080CP-R	1SFA170191R8000	5	0.004
● Green	080CP-V	1SFA170192R8000	5	0.004
● Black	080CP-N	1SFA170190R8000	5	0.004
○ Clear	080CP-T	1SFA170198R8000	5	0.004

Extended pushbuttons

○ Clear	P9A-RCST	1SFA187490R8000	5	0.004
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Modular metal range

Metal enclosures with holes and accessories



080SP-1



080SP-6



080SP-2M



080SP-4M

Enclosure with holes for pilot devices

Empty enclosures in aluminum, UL/CSA Type 1, 3, 3R, 3S, 4, 4X, 12, 13. Grey color.

Description	Hole types	Type	Order code	Pkg qty	Weight (1 pce) kg
With hole for cable gland					
1-seat	1	080SP-1	1SFA170801R1001	1	0.313
2-seat	2	080SP-2	1SFA170802R1002	1	0.440
3-seat	3	080SP-3	1SFA170803R1003	1	0.695
4-seat	4	080SP-4	1SFA170804R1004	1	0.435
6-seat	6	080SP-6	1SFA170806R1006	1	0.694
With hole for cable gland and deep base					
1-seat	1M	080SP-1M	1SFA170831R1001	1	0.402
2-seat	2M	080SP-2M	1SFA170832R1002	1	0.540
4-seat	4M	080SP-4M	1SFA170834R1004	1	0.530

Modular metal range

Technical data

Standards and approvals	
IEC / EN 60947-1	Low Voltage switchgear and control gear–Part 1: General rules
IEC / EN 60947-5-1	Low Voltage switchgear and control gear–part 5-1: control circuit devices and switching elements–Electromechanical control circuit devices
IEC / EN 60073	Basic and safety principles for man-machine interface, marking and identification coding principles for indicators and actuators
IEC / EN 60529	Degrees of protection provided by enclosures (IP code)
UL 508	Industrial control equipment
CSA C22.2 No 14	Industrial control equipment

Environmental data

Degrees of protection

Operators	IEC/EN DIN	UL/CSA
Modular metal range: P9M	IP66	Type 1, 3, 3R, 3S, 4, 4X, 12, 13
Contact block: P9B	IP2x	-
Metallic enclosures: 080SP	IP66, IP69K	-
For size 080SP-1, 1M, 2, 2M, 3, 4, 4M or 6	IP66, IP69K	Type 1, 3, 3R, 3S, 4, 4X, 12, 13

Connecting capacity

	Solid/stranded	1 x	0.75...2.5 mm ²
		2 x	0.75...2.5 mm ²
	Flexible	1 x	0.75...2.5 mm ²
		2 x	0.75...2.5 mm ²
	Flexible with non insulated ferrule	1 x	0.75...2.5 mm ²
		2 x	0.75...2.5 mm ²
	Flexible with insulated ferrule	1 x	0.75...2.5 mm ²
		2 x	0.75...2.5 mm ²
	Lugs	L <	7.0 mm
		l >	3.5 mm
Connection capacity acc. to UL / CSA		AWG 18...14	
Stripping length		10 mm	

Tightening torques

Cable terminals M3.5	0.9 Nm
Recommended screwdriver for cable terminal	Pozidriv 2
Operators locking nut	Min. 2 Nm / Max. 2.3 Nm

Electrical data

P9B Standard contact blocks

Self cleaning silver contacts, NC contact with positive opening.

Ratings as per IEC 60947-5-1

Rated insulation voltage, U _i	690 V	
Rated thermal current, I _{th}	10 A	
Rated operational current, I _e	at: 24 V	10 A
	at: 48 V	10 A
Utilization category AC 15,	at: 60 V	10 A
	at: 110 V	6 A
	at: 220V	3 A
	at: 380 V	2 A
	at: 500 V	1.5 A
	at: 600 V	1.2 A
Rated operational current, I _e	at: 24 V	2.5 A
	at: 48 V	1.4 A
Utilization category DC 13,	at: 60 V	1 A
	at: 110 V	0.55 A
	at: 220V	0.27 A
	at: 300 V	0.2 A
Rated impulse withstand voltage	U _{imp}	4 kV
Rated frequency	50/60 Hz	

Performances according to CSA and UL

AC heavy duty	(A600)
DC standard duty	(Q300)

Number of electrical contacts

Holder	Standard 3 positions	Optional 5 positions
Momentary pushbuttons	Max 6	Max 8
Momentary mushroom pushbuttons		
Standard selector switches	Max 4	Max 8
Key selector switches		
Joysticks	Max 4	–
Selector pushbuttons		
Toggle switches		
Maintained mushroom pushbuttons	Max 4	–
Illuminated pushbuttons	Max 4	Max 4
Illuminated momentary mushroom pushbuttons		
Illuminated selector switches		
Illuminated maintained mushroom pushbuttons	Max 2	Max 2

Short circuit protection

With fuses 16 A gG acc. to IEC 60269-1 and IEC 60269-3

Minimum switching capacity

Standard contact blocks	12 V DC	5 mA
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Modular metal range

Technical data

Mechanical endurance

Joysticks	500 000
Key pushbuttons	operations
Toggle switches	
Illuminated selector switches	
Maintained accessory	
Standard selector switches	1 million
Key selector switches	operations
Illuminated pushbuttons	
Selector pushbuttons	
Standard pushbuttons	3 million
Mushroom head pushbuttons	operations

Performances of the contacts

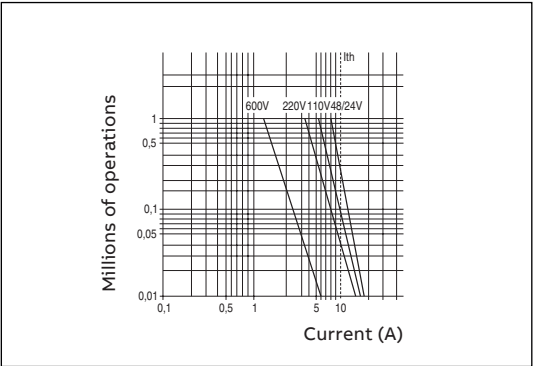
- Slow acting
- Self-cleaning sliding
- NC forced breaking
- Double movable bridge
- Four switching points
- Double break

Identification of the terminals

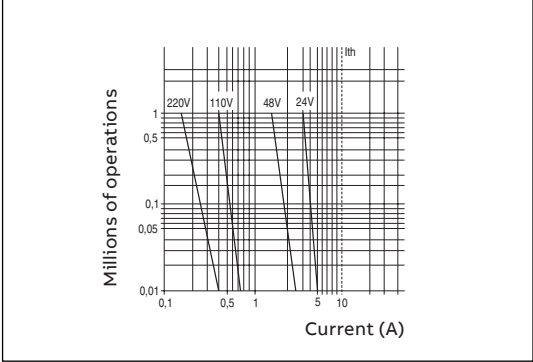
According EN 50013

Electrical endurance

Alternative current 50/60Hz cat. AC 15



Direct current cat. DC 13



Rear panel modularity

The P9 series is composed with 10 mm or a multiple of 10 mm modular units, fitted side by side on a proper mounting flange.

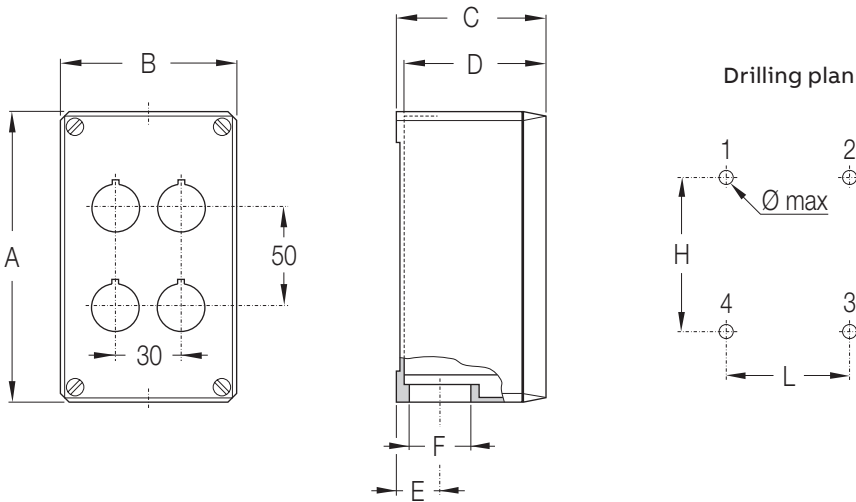
The standard operators are supplied with a three position flange with a capacity of 3 units of 10 mm or 1 of 10 mm and 1 of 20 mm or 1 of 30 mm.

When the three position flange is not enough to satisfy the applications needs, the five position flange is required to add two more units of 10 mm mounted side by side.

Using the five position flange take into account the bigger with (50 mm instead of 30 mm).

Modular metal range

Dimension



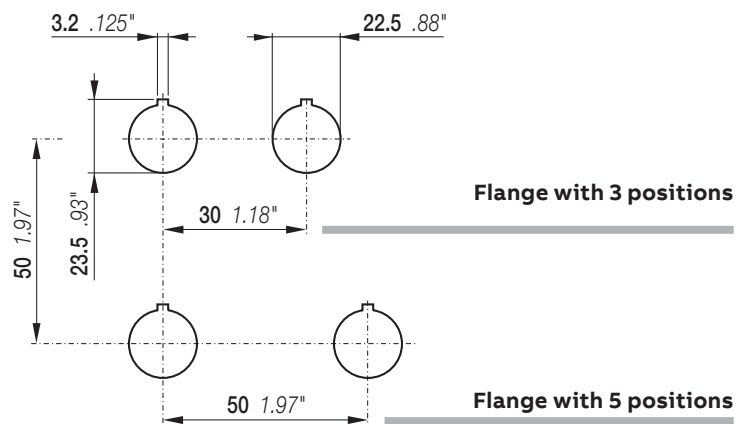
Size type	Holes Ø 22		Dimensions										Drilling plan			
	Vertic.	Horizont.	A		B		C		D		E		F	H x L x Ø max		Position of the holes
1	1	-	87	3.43	87	3.43	75	2.95	72	2.83	21.5	0.85	PG 21	74x55x4	2.91x2.17x0.16	1-3
1M	1	-	87	3.43	87	3.43	100	3.94	97	3.82	21.5	0.85	PG 21	68x55x4	2.68x2.17x0.16	1-3
2	2	-	145	5.71	87	3.43	75	2.95	72	2.83	21.5	0.85	PG 21	132x55x4	5.2x2.17x0.16	1-3
2M	2	-	145	5.71	87	3.43	100	3.94	97	3.82	21.5	0.85	PG 21	126x55x4	4.96x2.17x0.16	1-3
3	3	-	195	7.68	87	3.43	100	3.94	97	3.82	21.5	0.85	PG 21	176x55x4	6.93x2.17x0.16	1-3
4	2	2	145	5.71	87	3.43	75	2.95	72	2.83	21.5	0.85	PG 21	132x55x4	5.2x2.17x0.16	1-3
4M	2	2	145	5.71	87	3.43	100	3.94	97	3.82	21.5	0.85	PG 21	126x55x4	4.96x2.17x0.16	1-3
6	3	2	195	7.68	87	3.43	100	3.94	97	3.82	21.5	0.85	PG 21	176x55x4	6.93x2.17x0.16	1-3

Modular metal range

Drilling plan

Mounting

Fitted for panels 1 to 6 mm thick with holes drilled according to IEC60947-5-1 standard.



Pilot devices, 22 mm

Compact range

Ordering details

91	Non-illuminated flush pushbuttons
93	Non-illuminated extended pushbuttons
95	Illuminated flush pushbuttons
97	Illuminated extended pushbuttons
99	Non-illuminated mushroom pushbuttons
100	Non-illuminated emergency stop pushbuttons
101	Non-illuminated machine stop pushbuttons
102	Heavy duty pushbuttons
103	Pilot lights
105	LED bulbs for CL-100 pilot lights
107	Non-illuminated selector switches
109	Buzzers

Accessories

110

Technical data

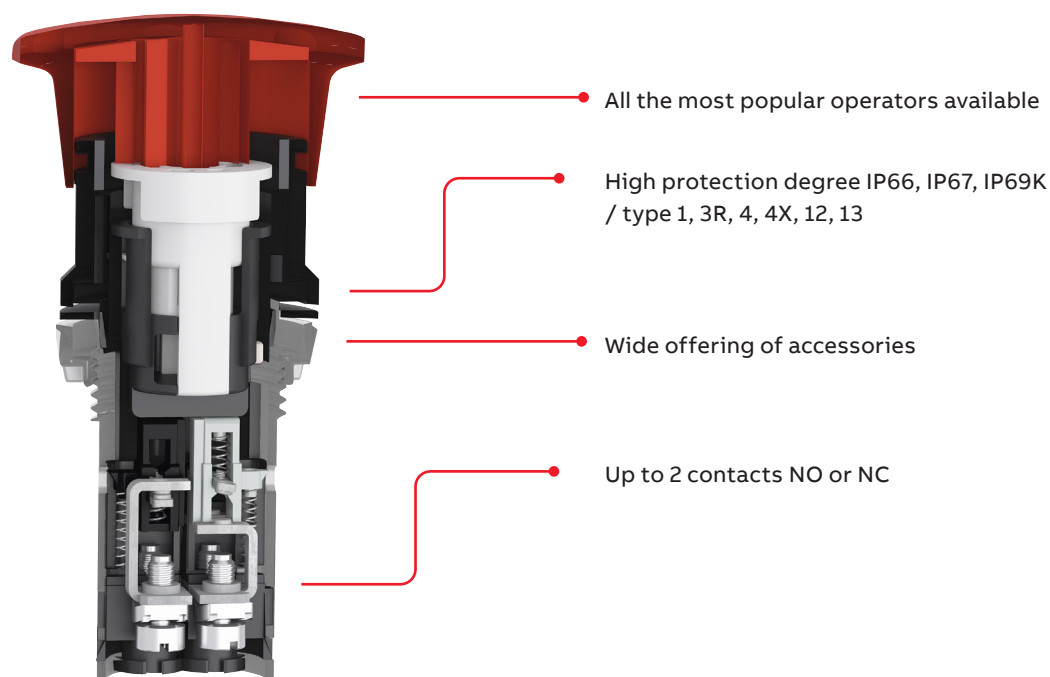
112

Drilling plan

118

Compact range

The compact range is the most efficient solution reducing both installation time and cost thanks to the all-in-one design. It is perfect for tough environment thanks to the market leading level of dust and water resistance.

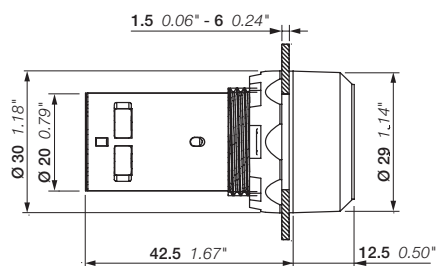


Compact range

Non-illuminated flush pushbuttons–Momentary



Operator	Bezel	Contacts	Type	Order code	Pkg qty	Weight (1 pce)
						kg
● Red	Black plastic	10	CP1-10R-10	1SFA619100R1011	10	0.018
		01	CP1-10R-01	1SFA619100R1041	10	0.018
		11	CP1-10R-11	1SFA619100R1071	10	0.022
		20	CP1-10R-20	1SFA619100R1021	10	0.022
		02	CP1-10R-02	1SFA619100R1051	10	0.022
		10	CP1-30R-10	1SFA619100R3011	10	0.032
	Chrome metal	01	CP1-30R-01	1SFA619100R3041	10	0.032
		11	CP1-30R-11	1SFA619100R3071	10	0.036
		20	CP1-30R-20	1SFA619100R3021	10	0.036
		02	CP1-30R-02	1SFA619100R3051	10	0.036
● Green	Black plastic	10	CP1-10G-10	1SFA619100R1012	10	0.018
		11	CP1-10G-11	1SFA619100R1072	10	0.022
		20	CP1-10G-20	1SFA619100R1022	10	0.022
	Chrome metal	10	CP1-30G-10	1SFA619100R3012	10	0.032
		11	CP1-30G-11	1SFA619100R3072	10	0.036
		20	CP1-30G-20	1SFA619100R3022	10	0.036
● Yellow	Black plastic	10	CP1-10Y-10	1SFA619100R1013	10	0.018
		11	CP1-10Y-11	1SFA619100R1073	10	0.022
		20	CP1-10Y-20	1SFA619100R1023	10	0.022
	Chrome metal	10	CP1-30Y-10	1SFA619100R3013	10	0.032
		11	CP1-30Y-11	1SFA619100R3073	10	0.036
		20	CP1-30Y-20	1SFA619100R3023	10	0.036
● Blue	Black plastic	10	CP1-10L-10	1SFA619100R1014	10	0.018
		11	CP1-10L-11	1SFA619100R1074	10	0.022
		20	CP1-10L-20	1SFA619100R1024	10	0.022
	Chrome metal	10	CP1-30L-10	1SFA619100R3014	10	0.032
		11	CP1-30L-11	1SFA619100R3074	10	0.036
		20	CP1-30L-20	1SFA619100R3024	10	0.036
○ White	Black plastic	10	CP1-10W-10	1SFA619100R1015	10	0.018
		11	CP1-10W-11	1SFA619100R1075	10	0.022
		20	CP1-10W-20	1SFA619100R1025	10	0.022
	Chrome metal	10	CP1-30W-10	1SFA619100R3015	10	0.032
		11	CP1-30W-11	1SFA619100R3075	10	0.036
		20	CP1-30W-20	1SFA619100R3025	10	0.036
● Black	Black plastic	10	CP1-10B-10	1SFA619100R1016	10	0.018
		01	CP1-10B-01	1SFA619100R1046	10	0.018
		11	CP1-10B-11	1SFA619100R1076	10	0.022
		20	CP1-10B-20	1SFA619100R1026	10	0.022
		02	CP1-10B-02	1SFA619100R1056	10	0.022
		10	CP1-30B-10	1SFA619100R3016	10	0.032
	Chrome metal	01	CP1-30B-01	1SFA619100R3046	10	0.032
		11	CP1-30B-11	1SFA619100R3076	10	0.036
		20	CP1-30B-20	1SFA619100R3026	10	0.036
		02	CP1-30B-02	1SFA619100R3056	10	0.036



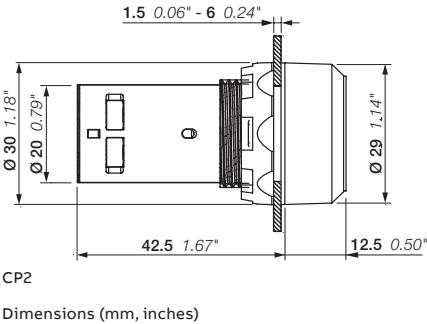
CP1
Dimensions (mm, inches)

Compact range

Non-illuminated flush pushbuttons–Maintained



Operator	Bezel	Contacts	Type	Order code	Pkg qty	Weight (1 pce)
						kg
● Red	Black plastic	1 0	CP2-10R-10	1SFA619101R1011	10	0.018
		0 1	CP2-10R-01	1SFA619101R1041	10	0.018
		1 1	CP2-10R-11	1SFA619101R1071	10	0.022
		2 0	CP2-10R-20	1SFA619101R1021	10	0.022
		0 2	CP2-10R-02	1SFA619101R1051	10	0.022
	Chrome metal	1 0	CP2-30R-10	1SFA619101R3011	10	0.032
		0 1	CP2-30R-01	1SFA619101R3041	10	0.032
		1 1	CP2-30R-11	1SFA619101R3071	10	0.036
		2 0	CP2-30R-20	1SFA619101R3021	10	0.036
		0 2	CP2-30R-02	1SFA619101R3051	10	0.036
● Green	Black plastic	1 0	CP2-10G-10	1SFA619101R1012	10	0.018
		1 1	CP2-10G-11	1SFA619101R1072	10	0.022
		2 0	CP2-10G-20	1SFA619101R1022	10	0.022
	Chrome metal	1 0	CP2-30G-10	1SFA619101R3012	10	0.032
		1 1	CP2-30G-11	1SFA619101R3072	10	0.036
		2 0	CP2-30G-20	1SFA619101R3022	10	0.036
● Yellow	Black plastic	1 0	CP2-10Y-10	1SFA619101R1013	10	0.018
		1 1	CP2-10Y-11	1SFA619101R1073	10	0.022
		2 0	CP2-10Y-20	1SFA619101R1023	10	0.022
	Chrome metal	1 1	CP2-30Y-11	1SFA619101R3073	10	0.036
		2 0	CP2-30Y-20	1SFA619101R3023	10	0.036
● Blue	Black plastic	1 0	CP2-10L-10	1SFA619101R1014	10	0.018
		1 1	CP2-10L-11	1SFA619101R1074	10	0.022
		2 0	CP2-10L-20	1SFA619101R1024	10	0.022
	Chrome metal	1 0	CP2-30L-10	1SFA619101R3014	10	0.032
		2 0	CP2-30L-20	1SFA619101R3024	10	0.036
	○ White	Black plastic	1 0	CP2-10W-10	1SFA619101R1015	10
1 1			CP2-10W-11	1SFA619101R1075	10	0.022
2 0			CP2-10W-20	1SFA619101R1025	10	0.022
Chrome metal		1 0	CP2-30W-10	1SFA619101R3015	10	0.032
		2 0	CP2-30W-20	1SFA619101R3025	10	0.036
● Black	Black plastic	1 0	CP2-10B-10	1SFA619101R1016	10	0.018
		0 1	CP2-10B-01	1SFA619101R1046	10	0.018
		1 1	CP2-10B-11	1SFA619101R1076	10	0.022
		2 0	CP2-10B-20	1SFA619101R1026	10	0.022
		0 2	CP2-10B-02	1SFA619101R1056	10	0.022
	Chrome metal	1 0	CP2-30B-10	1SFA619101R3016	10	0.032
		0 1	CP2-30B-01	1SFA619101R3046	10	0.032
		1 1	CP2-30B-11	1SFA619101R3076	10	0.036
		2 0	CP2-30B-20	1SFA619101R3026	10	0.036



Compact range

Non-illuminated extended pushbuttons–Momentary



CP3-10R-10

1SFC151198V0001



CP3-10G-10

1SFC151204V0001



CP3-30Y-10

1SFC151197V0001



CP3-10L-10

1SFC151194V0001



CP3-30W-10

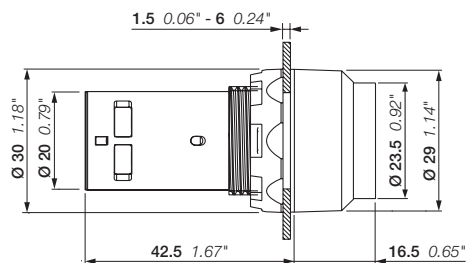
1SFC151203V0001



CP3-10B-10

1SFC151200V0001

Operator	Bezel	Contacts	Type	Order code	Pkg qty	Weight (1 pce)
						kg
● Red	Black plastic	1 0	CP3-10R-10	1SFA619102R1011	10	0.019
		0 1	CP3-10R-01	1SFA619102R1041	10	0.019
		1 1	CP3-10R-11	1SFA619102R1071	10	0.022
		2 0	CP3-10R-20	1SFA619102R1021	10	0.022
		0 2	CP3-10R-02	1SFA619102R1051	10	0.022
	Chrome metal	0 1	CP3-30R-01	1SFA619102R3041	10	0.033
		1 1	CP3-30R-11	1SFA619102R3071	10	0.036
		2 0	CP3-30R-20	1SFA619102R3021	10	0.036
	● Green	Black plastic	1 0	CP3-10G-10	1SFA619102R1012	10
1 1			CP3-10G-11	1SFA619102R1072	10	0.022
2 0			CP3-10G-20	1SFA619102R1022	10	0.022
Chrome metal		1 0	CP3-30G-10	1SFA619102R3012	10	0.033
		1 1	CP3-30G-11	1SFA619102R3072	10	0.036
		2 0	CP3-30G-20	1SFA619102R3022	10	0.036
● Yellow	Black plastic	1 0	CP3-10Y-10	1SFA619102R1013	10	0.019
		1 1	CP3-10Y-11	1SFA619102R1073	10	0.022
		2 0	CP3-10Y-20	1SFA619102R1023	10	0.022
	Chrome metal	2 0	CP3-30Y-20	1SFA619102R3023	10	0.036
● Blue	Black plastic	1 0	CP3-10L-10	1SFA619102R1014	10	0.019
		1 1	CP3-10L-11	1SFA619102R1074	10	0.022
		2 0	CP3-10L-20	1SFA619102R1024	10	0.022
	Chrome metal	2 0	CP3-30L-20	1SFA619102R3024	10	0.036
○ White	Black plastic	1 0	CP3-10W-10	1SFA619102R1015	10	0.019
		1 1	CP3-10W-11	1SFA619102R1075	10	0.022
		2 0	CP3-10W-20	1SFA619102R1025	10	0.022
	Chrome metal	1 0	CP3-30W-10	1SFA619102R3015	10	0.033
		1 1	CP3-30W-11	1SFA619102R3075	10	0.036
		2 0	CP3-30W-20	1SFA619102R3025	10	0.036
● Black	Black plastic	1 0	CP3-10B-10	1SFA619102R1016	10	0.019
		0 1	CP3-10B-01	1SFA619102R1046	10	0.019
		1 1	CP3-10B-11	1SFA619102R1076	10	0.022
		2 0	CP3-10B-20	1SFA619102R1026	10	0.022
		0 2	CP3-10B-02	1SFA619102R1056	10	0.022
	Chrome metal	1 0	CP3-30B-10	1SFA619102R3016	10	0.033
		0 1	CP3-30B-01	1SFA619102R3046	10	0.033
		1 1	CP3-30B-11	1SFA619102R3076	10	0.036
		2 0	CP3-30B-20	1SFA619102R3026	10	0.036
		0 2	CP3-30B-02	1SFA619102R3056	10	0.036



CP3

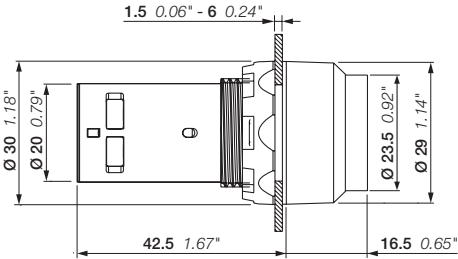
Dimensions (mm, inches)

Compact range

Non-illuminated extended pushbuttons–Maintained



Operator	Bezel	Contacts	Type	Order code	Pkg qty	Weight (1 pce)
						kg
● Red	Black plastic	1 0	CP4-10R-10	1SFA619103R1011	10	0.019
		0 1	CP4-10R-01	1SFA619103R1041	10	0.019
		1 1	CP4-10R-11	1SFA619103R1071	10	0.022
		2 0	CP4-10R-20	1SFA619103R1021	10	0.022
		0 2	CP4-10R-02	1SFA619103R1051	10	0.022
● Green	Chrome metal	1 1	CP4-30R-11	1SFA619103R3071	10	0.036
	Black plastic	1 0	CP4-10G-10	1SFA619103R1012	10	0.019
		1 1	CP4-10G-11	1SFA619103R1072	10	0.022
		2 0	CP4-10G-20	1SFA619103R1022	10	0.022
● Yellow	Chrome metal	1 0	CP4-30G-10	1SFA619103R3012	10	0.033
		2 0	CP4-30G-20	1SFA619103R3022	10	0.036
	Black plastic	1 0	CP4-10Y-10	1SFA619103R1013	10	0.019
● Blue	Black plastic	1 1	CP4-10Y-11	1SFA619103R1073	10	0.022
		1 0	CP4-10L-10	1SFA619103R1014	10	0.019
○ White	Black plastic	1 1	CP4-10L-11	1SFA619103R1074	10	0.022
		1 0	CP4-10W-10	1SFA619103R1015	10	0.019
● Black	Black plastic	1 1	CP4-10W-11	1SFA619103R1075	10	0.022
		1 0	CP4-10B-10	1SFA619103R1016	10	0.019
		1 1	CP4-10B-11	1SFA619103R1076	10	0.022
		2 0	CP4-10B-20	1SFA619103R1026	10	0.022
		0 2	CP4-10B-02	1SFA619103R1056	10	0.022



CP4
Dimensions (mm, inches)

Compact range

Illuminated flush pushbuttons–Momentary



CP1-11R-10

1SFC15115V0001



CP1-11G-10

1SFC15118V0001



CP1-31Y-10

1SFC15118V0001



CP1-11L-10

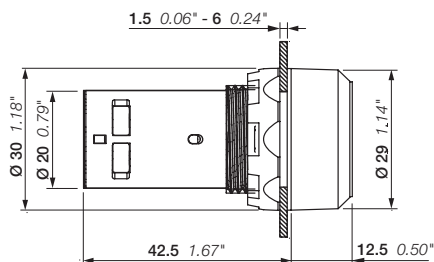
1SFC15114V0001



CP1-31C-10

1SFC15117V0001

Operator	Bezel	Contacts	Type	Order code	Pkg qty	Weight (1 pce)
						kg
Rated voltage 24 V AC / DC						
● Red	Black plastic	1 0	CP1-11R-10	1SFA619100R1111	10	0.025
		0 1	CP1-11R-01	1SFA619100R1141	10	0.025
	Chrome metal	1 0	CP1-31R-10	1SFA619100R3111	10	0.039
		0 1	CP1-31R-01	1SFA619100R3141	10	0.039
● Green	Black plastic	1 0	CP1-11G-10	1SFA619100R1112	10	0.025
	Chrome metal	1 0	CP1-31G-10	1SFA619100R3112	10	0.039
● Yellow	Black plastic	1 0	CP1-11Y-10	1SFA619100R1113	10	0.025
	Chrome metal	1 0	CP1-31Y-10	1SFA619100R3113	10	0.039
● Blue	Black plastic	1 0	CP1-11L-10	1SFA619100R1114	10	0.025
	Chrome metal	1 0	CP1-31L-10	1SFA619100R3114	10	0.039
		0 1	CP1-31L-01	1SFA619100R3144	10	0.039
○ Clear	Black plastic	1 0	CP1-11C-10	1SFA619100R1118	10	0.025
	Chrome metal	1 0	CP1-31C-10	1SFA619100R3118	10	0.039
Rated voltage 110...130 V AC / DC						
● Red	Black plastic	1 0	CP1-12R-10	1SFA619100R1211	10	0.025
		0 1	CP1-12R-01	1SFA619100R1241	10	0.025
● Green	Black plastic	1 0	CP1-12G-10	1SFA619100R1212	10	0.025
● Yellow	Black plastic	1 0	CP1-12Y-10	1SFA619100R1213	10	0.025
● Blue	Black plastic	1 0	CP1-12L-10	1SFA619100R1214	10	0.025
○ Clear	Black plastic	1 0	CP1-12C-10	1SFA619100R1218	10	0.025
Rated voltage 220 V AC / DC						
● Red	Black plastic	1 0	CP1-13R-10	1SFA619100R1311	10	0.025
		0 1	CP1-13R-01	1SFA619100R1341	10	0.025
● Green	Black plastic	1 0	CP1-13G-10	1SFA619100R1312	10	0.025
● Yellow	Black plastic	1 0	CP1-13Y-10	1SFA619100R1313	10	0.025
● Blue	Black plastic	1 0	CP1-13L-10	1SFA619100R1314	10	0.025
○ Clear	Black plastic	1 0	CP1-13C-10	1SFA619100R1318	10	0.025



CP1

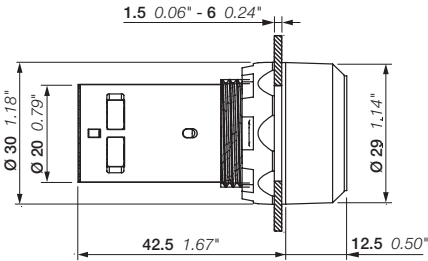
Dimensions (mm, inches)

Compact range

Illuminated flush pushbuttons–Maintained



Operator	Bezel	Contacts	Type	Order code	Pkg qty	Weight (1 pce)
						kg
Rated voltage 24 V AC / DC						
● Red	Black plastic	1 0	CP2-11R-10	1SFA619101R1111	10	0.025
		0 1	CP2-11R-01	1SFA619101R1141	10	0.025
● Green	Black plastic	1 0	CP2-11G-10	1SFA619101R1112	10	0.025
● Yellow	Black plastic	1 0	CP2-11Y-10	1SFA619101R1113	10	0.025
● Blue	Black plastic	1 0	CP2-11L-10	1SFA619101R1114	10	0.025
○ Clear	Black plastic	1 0	CP2-11C-10	1SFA619101R1118	10	0.025
Rated voltage 110...130 V AC / DC						
● Red	Black plastic	1 0	CP2-12R-10	1SFA619101R1211	10	0.025
		0 1	CP2-12R-01	1SFA619101R1241	10	0.025
● Green	Black plastic	1 0	CP2-12G-10	1SFA619101R1212	10	0.025
● Yellow	Black plastic	1 0	CP2-12Y-10	1SFA619101R1213	10	0.025
● Blue	Black plastic	1 0	CP2-12L-10	1SFA619101R1214	10	0.025
○ Clear	Black plastic	1 0	CP2-12C-10	1SFA619101R1218	10	0.025
Rated voltage 220 V AC / DC						
● Red	Black plastic	1 0	CP2-13R-10	1SFA619101R1311	10	0.025
		0 1	CP2-13R-01	1SFA619101R1341	10	0.025
● Green	Black plastic	1 0	CP2-13G-10	1SFA619101R1312	10	0.025
● Yellow	Black plastic	1 0	CP2-13Y-10	1SFA619101R1313	10	0.025
● Blue	Black plastic	1 0	CP2-13L-10	1SFA619101R1314	10	0.025
○ Clear	Black plastic	1 0	CP2-13C-10	1SFA619101R1318	10	0.025



CP1

Dimensions (mm, inches)

Compact range

Illuminated extended pushbuttons–Momentary



CP3-11R-10

1SFCL51210V0001



CP3-11G-10

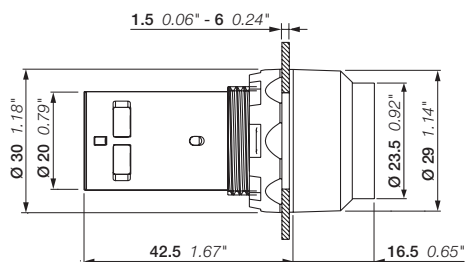
1SFCL51213V0001



CP3-11Y-10

1SFCL51208V0001

Operator	Bezel	Contacts	Type	Order code	Pkg qty	Weight (1 pce)
						kg
Rated voltage 24 V AC / DC						
● Red	Black plastic	1 0	CP3-11R-10	1SFA619102R1111	10	0.025
		0 1	CP3-11R-01	1SFA619102R1141	10	0.025
● Green	Black plastic	1 0	CP3-11G-10	1SFA619102R1112	10	0.025
● Yellow	Black plastic	1 0	CP3-11Y-10	1SFA619102R1113	10	0.025
● Blue	Black plastic	1 0	CP3-11L-10	1SFA619102R1114	10	0.025
○ Clear	Black plastic	1 0	CP3-11C-10	1SFA619102R1118	10	0.025
Rated voltage 110...130 V AC / DC						
● Red	Black plastic	1 0	CP3-12R-10	1SFA619102R1211	10	0.025
		0 1	CP3-12R-01	1SFA619102R1241	10	0.025
● Green	Black plastic	1 0	CP3-12G-10	1SFA619102R1212	10	0.025
● Yellow	Black plastic	1 0	CP3-12Y-10	1SFA619102R1213	10	0.025
● Blue	Black plastic	1 0	CP3-12L-10	1SFA619102R1214	10	0.025
○ Clear	Black plastic	1 0	CP3-12C-10	1SFA619102R1218	10	0.025
Rated voltage 220 V AC / DC						
● Red	Black plastic	1 0	CP3-13R-10	1SFA619102R1311	10	0.025
		0 1	CP3-13R-01	1SFA619102R1341	10	0.025
● Green	Black plastic	1 0	CP3-13G-10	1SFA619102R1312	10	0.025
● Yellow	Black plastic	1 0	CP3-13Y-10	1SFA619102R1313	10	0.025
● Blue	Black plastic	1 0	CP3-13L-10	1SFA619102R1314	10	0.025
○ Clear	Black plastic	1 0	CP3-13C-10	1SFA619102R1318	10	0.025



CP3

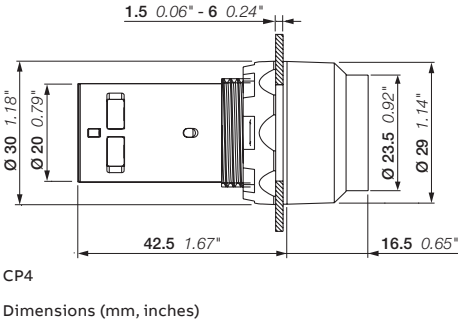
Dimensions (mm, inches)

Compact range

Illuminated extended pushbuttons–Maintained



Operator	Bezel	Contacts	Type	Order code	Pkg qty	Weight (1 pce)
						kg
Rated voltage 24 V AC / DC						
● Red	Black plastic	1 0	CP4-11R-10	1SFA619103R1111	10	0.025
		0 1	CP4-11R-01	1SFA619103R1141	10	0.025
● Green	Black plastic	1 0	CP4-11G-10	1SFA619103R1112	10	0.025
● Yellow	Black plastic	1 0	CP4-11Y-10	1SFA619103R1113	10	0.025
● Blue	Black plastic	1 0	CP4-11L-10	1SFA619103R1114	10	0.025
○ Clear	Black plastic	1 0	CP4-11C-10	1SFA619103R1118	10	0.025
Rated voltage 110...130 V AC / DC						
● Red	Black plastic	1 0	CP4-12R-10	1SFA619103R1211	10	0.025
		0 1	CP4-12R-01	1SFA619103R1241	10	0.025
● Green	Black plastic	1 0	CP4-12G-10	1SFA619103R1212	10	0.025
● Yellow	Black plastic	1 0	CP4-12Y-10	1SFA619103R1213	10	0.025
● Blue	Black plastic	1 0	CP4-12L-10	1SFA619103R1214	10	0.025
○ Clear	Black plastic	1 0	CP4-12C-10	1SFA619103R1218	10	0.025
Rated voltage 230 V AC / DC						
● Red	Black plastic	1 0	CP4-13R-10	1SFA619103R1311	10	0.025
		0 1	CP4-13R-01	1SFA619103R1341	10	0.025
● Green	Black plastic	1 0	CP4-13G-10	1SFA619103R1312	10	0.025
● Yellow	Black plastic	1 0	CP4-13Y-10	1SFA619103R1313	10	0.025
● Blue	Black plastic	1 0	CP4-13L-10	1SFA619103R1314	10	0.025
○ Clear	Black plastic	1 0	CP4-13C-10	1SFA619103R1318	10	0.025



Compact range

Non-illuminated mushroom pushbuttons–Momentary



1SFC151258V0001

CPM3-10R-11



1SFC151357V0001

CPM3-10G-11



1SFC151259V0001

CPM3-10Y-11



1SFC151260V0001

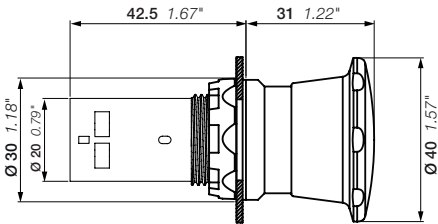
CPM3-10L-11



1SFC151358V0001

CPM3-10B-11

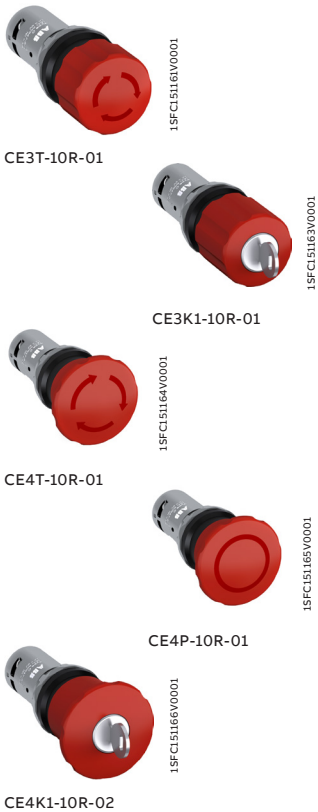
Operator	Contacts	Type	Order code	Pkg qty	Weight (1 pce)
					kg
Ø 40 mm					
Red	1 1	CPM3-10R-11	1SFA619126R1071	1	0.036
Green	1 1	CPM3-10G-11	1SFA619126R1072	1	0.036
Yellow	1 1	CPM3-10Y-11	1SFA619126R1073	1	0.036
Blue	1 1	CPM3-10L-11	1SFA619126R1074	1	0.036
Black	1 1	CPM3-10B-11	1SFA619126R1076	1	0.036



CPM3
Dimensions (mm, inches)

Compact range

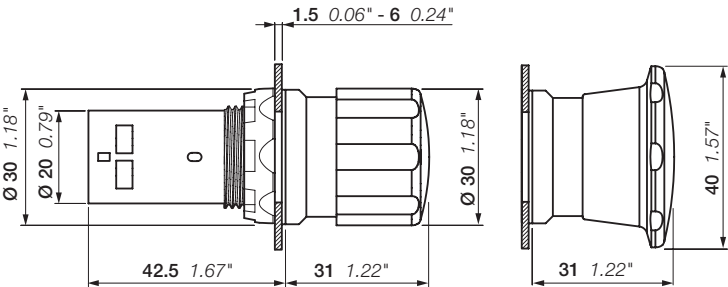
Non-illuminated emergency stop pushbuttons



Description

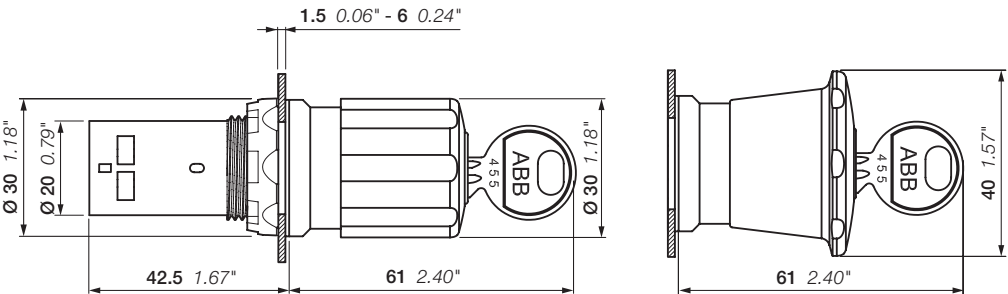
The emergency stop pushbuttons conform to the standard EN/IEC 60947-5-5, Safety of machinery standard EN/ISO 13850, IEC 60204-1 and to Machinery directive 2006/42/EC.

Operator	Release method	Contacts	Type	Order code	Pkg qty	Weight (1 pce)
						kg
Ø 30 mm						
● Red	Twist release	0 1	CE3T-10R-01	1SFA619500R1041	1	0.032
		1 1	CE3T-10R-11	1SFA619500R1071	1	0.032
		0 2	CE3T-10R-02	1SFA619500R1051	1	0.032
● Red	Pull release	0 1	CE3P-10R-01	1SFA619501R1041	1	0.032
		1 1	CE3P-10R-11	1SFA619501R1071	1	0.032
		0 2	CE3P-10R-02	1SFA619501R1051	1	0.032
● Red	Key code 455	0 1	CE3K1-10R-01	1SFA619502R1041	1	0.060
		1 1	CE3K1-10R-11	1SFA619502R1071	1	0.060
		0 2	CE3K1-10R-02	1SFA619502R1051	1	0.060
Ø 40 mm						
● Red	Twist release	0 1	CE4T-10R-01	1SFA619550R1041	1	0.036
		1 1	CE4T-10R-11	1SFA619550R1071	1	0.036
		0 2	CE4T-10R-02	1SFA619550R1051	1	0.036
● Red	Pull release	0 1	CE4P-10R-01	1SFA619551R1041	1	0.036
		1 1	CE4P-10R-11	1SFA619551R1071	1	0.036
		0 2	CE4P-10R-02	1SFA619551R1051	1	0.036
● Red	Key code 455	0 1	CE4K1-10R-01	1SFA619552R1041	1	0.064
		1 1	CE4K1-10R-11	1SFA619552R1071	1	0.064
		0 2	CE4K1-10R-02	1SFA619552R1051	1	0.064



CE3P, CE3T

CE4P, CE4T



CE3K

CE4K

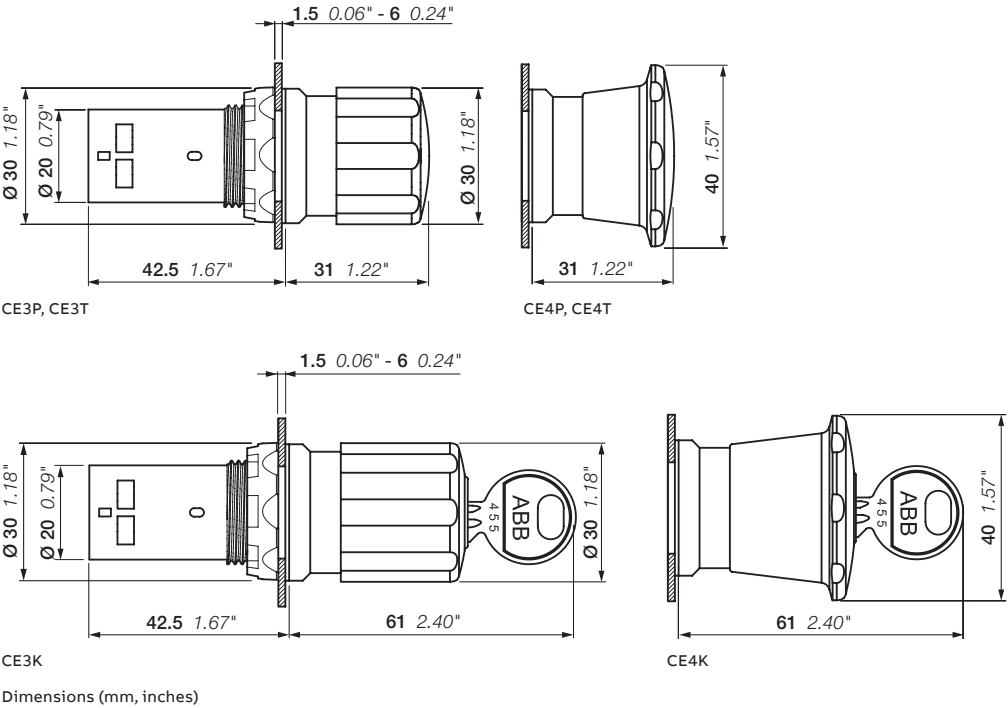
Dimensions (mm, inches)

Compact range

Non-illuminated machine stop pushbuttons

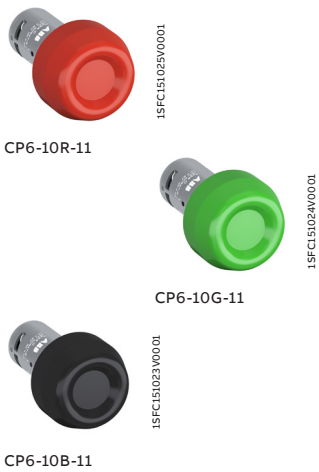


Operator	Release method	Contacts	Type	Order code	Pkg qty	Weight (1 pce)
						kg
Ø 30 mm						
● Black	Twist release	0 1	CE3T-10B-01	1SFA619500R1046	1	0.032
		1 1	CE3T-10B-11	1SFA619500R1076	1	0.032
● Black	Pull release	1 1	CE3P-10B-11	1SFA619501R1076	1	0.032
● Black	Key code 455	1 1	CE3K1-10B-11	1SFA619502R1076	1	0.060
Ø 40 mm						
● Black	Twist release	1 0	CE4T-10B-10	1SFA619550R1016	1	0.032
		0 1	CE4T-10B-01	1SFA619550R1046	1	0.032
		1 1	CE4T-10B-11	1SFA619550R1076	1	0.032
		2 0	CE4T-10B-20	1SFA619550R1026	1	0.032
		0 2	CE4T-10B-02	1SFA619550R1056	1	0.032
● Black	Pull release	1 1	CE4P-10B-11	1SFA619551R1076	1	0.032
● Black	Key code 455	1 1	CE4K1-10B-11	1SFA619552R1076	1	0.064



Compact range

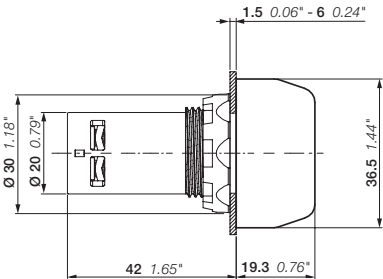
Heavy duty pushbuttons



Description

Silicone rubber cap.

Color		Contacts	Type	Order code	Pkg qty	Weight (1 pce)
						
				kg		
● Red	Red	1 1	CP6-10R-11	1SFA619105R1071	10	0.031
		2 0	CP6-10R-20	1SFA619105R1021	10	0.031
		0 2	CP6-10R-02	1SFA619105R1051	10	0.031
● Green	Green	1 1	CP6-10G-11	1SFA619105R1072	10	0.031
		2 0	CP6-10G-20	1SFA619105R1022	10	0.031
● Black	Black	1 1	CP6-10B-11	1SFA619105R1076	10	0.031
		2 0	CP6-10B-20	1SFA619105R1026	10	0.031
		0 2	CP6-10B-02	1SFA619105R1056	10	0.031



CP6

Dimensions (mm, inches)

Compact range

Pilot lights



CL2-502R



CL2-506G



CL2-508Y



CL2-506L



CL2-506C

Description

Integrated LED, no bulb needed.

Color	Rated current	Anti-inductive voltage	Wave-length	Illumination	Type	Order code	Pkg qty	Weight (1 pce)
	mA	Vpeak	nm	lx				kg

Voltage 6.3 V

● Red	16	2	625	70	CL2-506R	1SFA619403R5061	10	0.016
● Green	16	2	520	125	CL2-506G	1SFA619403R5062	10	0.016
● Yellow	16	2	590	75	CL2-506Y	1SFA619403R5063	10	0.016
● Blue	16	2	470	10	CL2-506L	1SFA619403R5064	10	0.016
○ Clear	16	2	(1)	290	CL2-506C	1SFA619403R5068	10	0.016

Voltage 12 V DC

● Red	16	2	625	110	CL2-501R	1SFA619403R5011	10	0.016
● Green	16	2.5	520	165	CL2-501G	1SFA619403R5012	10	0.016
● Yellow	16	2.5	590	85	CL2-501Y	1SFA619403R5013	10	0.016
● Blue	16	2.5	470	15	CL2-501L	1SFA619403R5014	10	0.016
○ Clear	16	2.5	(1)	320	CL2-501C	1SFA619403R5018	10	0.016

Voltage 24 V AC / DC

● Red	16	6	625	80	CL2-502R	1SFA619403R5021	10	0.016
● Green	16	6	520	135	CL2-502G	1SFA619403R5022	10	0.016
● Yellow	16	6	590	55	CL2-502Y	1SFA619403R5023	10	0.016
● Blue	16	6	470	10	CL2-502L	1SFA619403R5024	10	0.016
○ Clear	16	6	(1)	230	CL2-502C	1SFA619403R5028	10	0.016

Voltage 48 ... 60 V AC / DC

● Red	13-17	7	625	75	CL2-507R	1SFA619403R5071	10	0.016
● Green	13-17	7	520	140	CL2-507G	1SFA619403R5072	10	0.016
● Yellow	13-17	7	590	80	CL2-507Y	1SFA619403R5073	10	0.016
● Blue	13-17	7	470	10	CL2-507L	1SFA619403R5074	10	0.016
○ Clear	13-17	7	(1)	260	CL2-507C	1SFA619403R5078	10	0.016

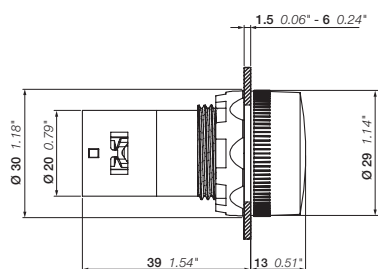
Voltage 110 ... 130 V AC

● Red	15-17	20	625	85	CL2-513R	1SFA619403R5131	10	0.016
● Green	15-17	20	520	90	CL2-513G	1SFA619403R5132	10	0.016
● Yellow	15-17	20	590	85	CL2-513Y	1SFA619403R5133	10	0.016
● Blue	15-17	20	470	10	CL2-513L	1SFA619403R5134	10	0.016
○ Clear	15-17	20	(1)	340	CL2-513C	1SFA619403R5138	10	0.016

Voltage 110 ... 130 V DC

● Red	8-9	20	625	55	CL2-515R	1SFA619403R5151	10	0.016
● Green	8-9	20	520	125	CL2-515G	1SFA619403R5152	10	0.016
● Yellow	8-9	20	590	50	CL2-515Y	1SFA619403R5153	10	0.016
● Blue	8-9	20	470	10	CL2-515L	1SFA619403R5154	10	0.016
○ Clear	8-9	20	(1)	210	CL2-515C	1SFA619403R5158	10	0.016

(1) X = 0.31, Y = 0.32



CL2

Dimensions (mm, inches)

Compact range
Pilot lights



CL2-502R

1SFC151338V0001



CL2-506G

1SFC151339V0001



CL2-508Y

1SFC151340V0001



CL2-506L

1SFC151341V0001



CL2-506C

1SFC151342V0001

Description

Integrated LED, no bulb needed.

Color	Rated current mA	Anti-inductive voltage Vpeak	Wave-length nm	Illumi-nation lx	Type	Order code	Pkg qty	Weight (1 pce) kg
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Voltage 220 V DC

● Red	6	20	625	40	CL2-520R	1SFA619403R5201	10	0.016
● Green	6	20	520	90	CL2-520G	1SFA619403R5202	10	0.016
● Yellow	6	20	590	30	CL2-520Y	1SFA619403R5203	10	0.016
● Blue	6	20	470	5	CL2-520L	1SFA619403R5204	10	0.016
○ Clear	6	20	(1)	120	CL2-520C	1SFA619403R5208	10	0.016

Voltage 230 V AC

● Red	17	30	625	95	CL2-523R	1SFA619403R5231	10	0.016
● Green	17	35	520	155	CL2-523G	1SFA619403R5232	10	0.016
● Yellow	17	35	590	70	CL2-523Y	1SFA619403R5233	10	0.016
● Blue	17	35	470	10	CL2-523L	1SFA619403R5234	10	0.016
○ Clear	17	35	(1)	225	CL2-523C	1SFA619403R5238	10	0.016

Rated voltage 230 V AC high anti-inductive voltage (2)

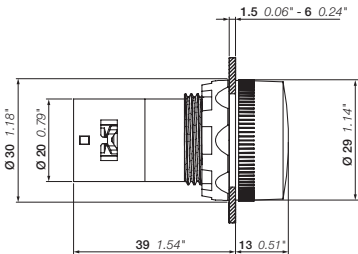
● Red	17	60	625	75	CL2-623R	1SFA619403R6231	10	0.016
● Green	17	80	520	70	CL2-623G	1SFA619403R6232	10	0.016
● Yellow	17	70	590	50	CL2-623Y	1SFA619403R6233	10	0.016
● Blue	17	80	470	5	CL2-623L	1SFA619403R6234	10	0.016
○ Clear	17	80	(1)	155	CL2-623C	1SFA619403R6238	10	0.016

Rated voltage 380 ... 415 V AC

● Red	15-17	55	625	85	CL2-542R	1SFA619403R5421	10	0.016
● Green	15-17	65	520	130	CL2-542G	1SFA619403R5422	10	0.016
● Yellow	15-17	65	590	60	CL2-542Y	1SFA619403R5423	10	0.016
● Blue	15-17	65	470	10	CL2-542L	1SFA619403R5424	10	0.016
○ Clear	15-17	65	(1)	395	CL2-542C	1SFA619403R5428	10	0.016

(1) X = 0.31, Y = 0.32

(2) Higher threshold to light up LED to be used in application where there is risk of large induced voltages.



CL2

Dimensions (mm, inches)

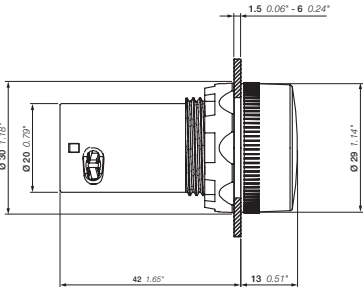
Compact range
Pilot lights BA 9s



Description

Bulb not included and should be ordered separately, see Accessories section for order codes and information.

Color	Type	Order code	Pkg qty	Weight (1 pce) kg
● Red	CL-100R	1SFA619402R1001	10	0.018
● Green	CL-100G	1SFA619402R1002	10	0.018
● Yellow	CL-100Y	1SFA619402R1003	10	0.018
● Blue	CL-100L	1SFA619402R1004	10	0.018
○ White	CL-100W	1SFA619402R1005	10	0.018
○ Clear	CL-100C	1SFA619402R1008	10	0.018



CL100
Dimensions (mm, inches)

Accessories for compact range

LED bulbs for CL-100 pilot lights



BA9S-6LEDB

1SFCL15163R0001

Color	Type	Order code	Pkg qty	Weight (1 pce) kg
Rated voltage 6 V AC/DC				
● Red	BA9S-6LEDR	1SFA187163R1001	5	0.002
● Green	BA9S-6LEDV	1SFA187164R1002	5	0.002
● Yellow	BA9S-6LEDG	1SFA187161R1003	5	0.002
● Blue	BA9S-6LEDL	1SFA187162R1004	5	0.002
○ White	BA9S-6LEDB	1SFA187160R1005	5	0.002
Rated voltage 12 V AC/DC				
● Red	BA9S-12LEDR	1SFA187168R1011	5	0.002
● Green	BA9S-12LEDV	1SFA187169R1012	5	0.002
● Yellow	BA9S-12LEDG	1SFA187166R1013	5	0.002
● Blue	BA9S-12LEDL	1SFA187167R1014	5	0.002
○ White	BA9S-12LEDB	1SFA187165R1015	5	0.002
Rated voltage 24 V AC/DC				
● Red	BA9S-24LEDR	1SFA187173R1021	5	0.002
● Green	BA9S-24LEDV	1SFA187174R1022	5	0.002
● Yellow	BA9S-24LEDG	1SFA187171R1023	5	0.002
● Blue	BA9S-24LEDL	1SFA187172R1024	5	0.002
○ White	BA9S-24LEDB	1SFA187170R1025	5	0.002
Rated voltage 48 V AC/DC				
● Red	BA9S-48LEDR	1SFA187178R1031	5	0.002
● Green	BA9S-48LEDV	1SFA187179R1032	5	0.002
● Yellow	BA9S-48LEDG	1SFA187176R1033	5	0.002
● Blue	BA9S-48LEDL	1SFA187177R1034	5	0.002
○ White	BA9S-48LEDB	1SFA187175R1035	5	0.002
Rated voltage 60 V AC/DC				
○ White	BA9S-60LED	1SFA187191R1045	5	0.002
Rated voltage 110–120 V AC/DC				
● Red	BA9S-110LEDR	1SFA187183R1041	5	0.002
● Green	BA9S-110LEDV	1SFA187184R1042	5	0.002
● Yellow	BA9S-110LEDG	1SFA187181R1043	5	0.002
● Blue	BA9S-110LEDL	1SFA187182R1044	5	0.002
○ White	BA9S-110LEDB	1SFA187180R1045	5	0.002
Rated voltage 130 V AC/DC				
○ White	BA9S-130LED	1SFA187190R1045	5	0.002
Rated voltage 230 V AC				
● Red	BA9S-230LEDR	1SFA187188R1051	5	0.002
● Green	BA9S-230LEDV	1SFA187189R1052	5	0.002
● Yellow	BA9S-230LEDG	1SFA187186R1053	5	0.002
● Blue	BA9S-230LEDL	1SFA187187R1054	5	0.002
○ White	BA9S-230LEDB	1SFA187185R1055	5	0.002

Compact range

Non-illuminated selector switches–2-position



C2SS1-10B-10



C2SS3-30B-10

Description

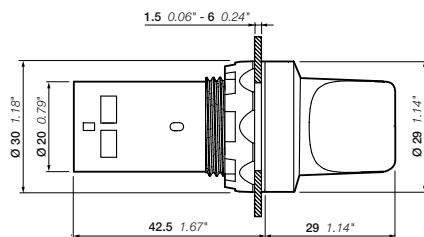
Compact selector switches are delivered in black color.

Operating principle	Bezel	Contacts	Type	Order code	Pkg qty	Weight (1 pce)
						kg
Short handle						
	Black plastic	1 0	C2SS1-10B-10	1SFA619200R1016	10	0.02
		0 1	C2SS1-10B-01	1SFA619200R1046	10	0.02
		1 1	C2SS1-10B-11	1SFA619200R1076	10	0.024
		2 0	C2SS1-10B-20	1SFA619200R1026	10	0.024
	Chrome metal	1 0	C2SS1-30B-10	1SFA619200R3016	10	0.029
		0 1	C2SS1-30B-01	1SFA619200R3046	10	0.029
		1 1	C2SS1-30B-11	1SFA619200R3076	10	0.032
		2 0	C2SS1-30B-20	1SFA619200R3026	10	0.032
	Black plastic	1 0	C2SS2-10B-10	1SFA619201R1016	10	0.02
		0 1	C2SS2-10B-01	1SFA619201R1046	10	0.02
		1 1	C2SS2-10B-11	1SFA619201R1076	10	0.024
		2 0	C2SS2-10B-20	1SFA619201R1026	10	0.024
	Chrome metal	1 0	C2SS2-30B-10	1SFA619201R3016	10	0.029
		0 1	C2SS2-30B-01	1SFA619201R3046	10	0.029
		1 1	C2SS2-30B-11	1SFA619201R3076	10	0.032
		2 0	C2SS2-30B-20	1SFA619201R3026	10	0.032
	Black plastic	1 0	C2SS3-10B-10	1SFA619202R1016	10	0.02
		0 1	C2SS3-10B-01	1SFA619202R1046	10	0.02
		1 1	C2SS3-10B-11	1SFA619202R1076	10	0.024
		2 0	C2SS3-10B-20	1SFA619202R1026	10	0.024
	Chrome metal	1 0	C2SS3-30B-10	1SFA619202R3016	10	0.029
		1 1	C2SS3-30B-11	1SFA619202R3076	10	0.032
		2 0	C2SS3-30B-20	1SFA619202R3026	10	0.032
Long handle						
	Chrome metal	1 0	C2SS5-30B-10	1SFA619204R3016	10	0.029
		1 1	C2SS5-30B-11	1SFA619204R3076	10	0.032

Contacts actuated

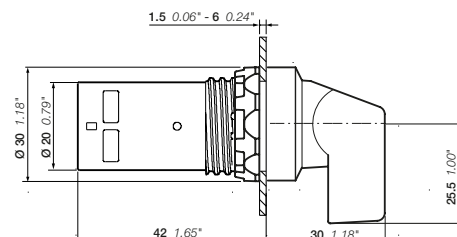
2-position selector switch
Contacts included,

	actuated in position C			
	NC	NO	NC	NO
11	13		21	23
12	14		22	24
1 NO	–	1	–	–
2 NO	–	1	–	1
1 NC	1	–	–	–
2 NC	1	–	1	–
1 NO + 1 NC	–	1	1	–



C2SS, short handle

Dimensions (mm, inches)



C2SS, long handle

Compact range

Non-illuminated selector switches–3-position



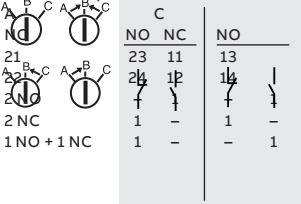
C3SS1-10B-11



C3SS2-30B-20

Contacts actuated

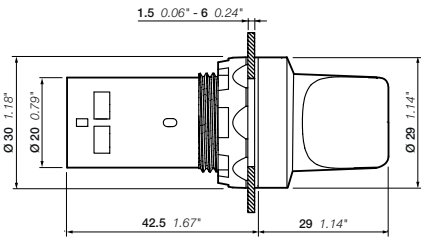
3-position selector switch
Contacts included,
actuated in position:



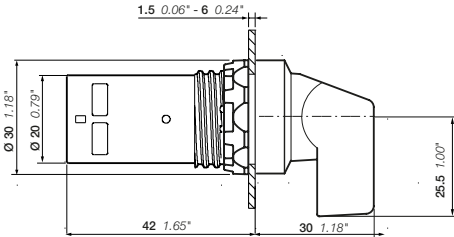
Description

Compact selector switches operators are delivered in black color.

Operating principle	Bezel	Contacts	Type	Order code	Pkg qty	Weight (1 pce)
						kg
Short handle						
	Black plastic	1 1	C3SS1-10B-11	1SFA619210R1076	10	0.024
		2 0	C3SS1-10B-20	1SFA619210R1026	10	0.024
	Chrome metal	1 1	C3SS1-30B-11	1SFA619210R3076	10	0.032
		2 0	C3SS1-30B-20	1SFA619210R3026	10	0.032
	Black plastic	1 1	C3SS2-10B-11	1SFA619211R1076	10	0.024
		2 0	C3SS2-10B-20	1SFA619211R1026	10	0.024
	Chrome metal	1 1	C3SS2-30B-11	1SFA619211R3076	10	0.032
		2 0	C3SS2-30B-20	1SFA619211R3026	10	0.032
	Black plastic	1 1	C3SS3-10B-11	1SFA619212R1076	10	0.024
		2 0	C3SS3-10B-20	1SFA619212R1026	10	0.024
	Chrome metal	1 1	C3SS3-30B-11	1SFA619212R3076	10	0.032
		2 0	C3SS3-30B-20	1SFA619212R3026	10	0.032
	Black plastic	1 1	C3SS7-10B-11	1SFA619216R1076	10	0.024
		2 0	C3SS7-10B-20	1SFA619216R1026	10	0.024
	Chrome metal	2 0	C3SS7-30B-20	1SFA619216R3026	10	0.032
Long handle						
	Black plastic	1 1	C3SS4-10B-11	1SFA619213R1076	10	0.024
		2 0	C3SS4-10B-20	1SFA619213R1026	10	0.024
	Black plastic	1 1	C3SS5-10B-11	1SFA619214R1076	10	0.024
		2 0	C3SS5-10B-20	1SFA619214R1026	10	0.024
	Chrome metal	2 0	C3SS5-30B-20	1SFA619214R3026	10	0.032



C3SS, short handle
Dimensions (mm, inches)



C3SS, long handle

Compact range

Buzzers



CB1-600G

1SFC15157V0001



CB1-610R

1SFC15159V0001



CB1-610Y

1SFC15158V0001



CB1-620B

1SFC15160V0001

Illuminated

Color	Light and sound output	Rated current mA	Luminance mcd	Type	Order code	Pkg qty	Weight (1 pce) kg
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Rated voltage 24 V AC / DC

Green	Continuous	48	126	CB1-600G	1SFA619600R6002	10	0.021
Red	Pulsation	53	60	CB1-610R	1SFA619600R6101	10	0.021
Yellow	Pulsation	53	60	CB1-610Y	1SFA619600R6103	10	0.021

Rated voltage 110 ... 130 V AC

Green	Continuous	55	126	CB1-601G	1SFA619600R6012	10	0.021
Red	Pulsation	70	60	CB1-611R	1SFA619600R6111	10	0.021
Yellow	Pulsation	70	60	CB1-611Y	1SFA619600R6113	10	0.021

Rated voltage 110 ... 130 V DC

Green	Continuous	15	126	CB1-602G	1SFA619600R6022	10	0.021
Red	Pulsation	15	60	CB1-612R	1SFA619600R6121	10	0.021
Yellow	Pulsation	15	60	CB1-612Y	1SFA619600R6123	10	0.021

Rated voltage 230 V AC

Green	Continuous	55	126	CB1-603G	1SFA619600R6032	10	0.021
Red	Pulsation	70	60	CB1-613R	1SFA619600R6131	10	0.021
Yellow	Pulsation	70	60	CB1-613Y	1SFA619600R6133	10	0.021

Non-Illuminated

Color	Sound output	Rated current mA	Luminance mcd	Type	Order code	Pkg qty	Weight (1 pce) kg
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Rated voltage 24 V AC / DC

Black	Continuous	40	-	CB1-620B	1SFA619600R6206	10	0.021
	Pulsation	48	-	CB1-630B	1SFA619600R6306	10	0.021

Rated voltage 110 ... 130 V AC

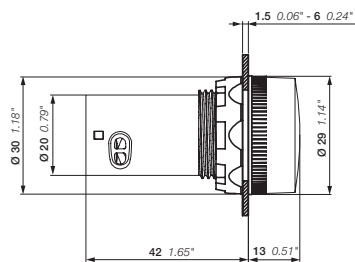
Black	Continuous	40	-	CB1-621B	1SFA619600R6216	10	0.021
	Pulsation	48	-	CB1-631B	1SFA619600R6316	10	0.021

Rated voltage 110 ... 130 V DC

Black	Continuous	15	-	CB1-622B	1SFA619600R6226	10	0.021
	Pulsation	15	-	CB1-632B	1SFA619600R6326	10	0.021

Rated voltage 230 V AC

Black	Continuous	40	-	CB1-623B	1SFA619600R6236	10	0.021
	Pulsation	40	-	CB1-633B	1SFA619600R6336	10	0.021



CB1
Dimensions (mm, inches)

Compact range

Accessories



KA1

1SFC151253 F0001



MA1-8052

1SFC151397 V0001



KA1-8010

1SFC15179 F0001



KA1-8022/KA1-8021

1SFC151212 V0001



SK616016-2

1SFC151487 F0001



MA1-8153

1SFC151391 V0001



CA1-8054

1SFC151287 V0001

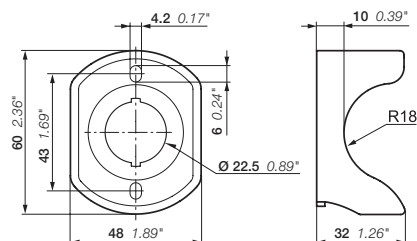


CA1-8053

1SFC151286 V0001

Description	Bezel / color	Type	Order code	Pkg qty	Weight (1pce) kg
30 mm adapters for 22 mm operator (1.5–4 mm panel thickness)					
Emergency stop pushbuttons, MPM	Black plastic	KA1-8027	1SFA616920R8027	1	0.007
	Chrome metal	KA1-8028	1SFA616920R8028	1	0.021
Pushbuttons, selector switches, pilot lights, potentiometers, emergency stop pushbuttons, MPE	Black plastic	KA1-8029	1SFA616920R8029	1	0.010
Flush mounted pushbuttons	Chrome metal	KA1-8073	1SFA616920R8073	1	0.050
Flush mounted selector switches	Chrome metal	MA1-8074	1SFA611920R8074	1	0.050
Protective membrane, silicone					
Flush pushbutton		MA1-8052	1SFA611920R8052	10	0.002
Extended pushbutton		MA1-8002	1SFA611920R8002	10	0.002
Protective ring					
To prevent accidental operation. Cannot be used together with Legend plate holder					
Flush and extended pushbuttons	Clear plastic	-	SK615512-1	10	0.002
Flush pushbuttons	Metal and black plastic	KA1-8010	1SFA616920R8010	10	0.008
Bezel					
Pushbuttons	Black plastic	KA1-8022	1SFA616920R8022	10	0.002
	Chrome plastic	KA1-8020	1SFA616920R8020	10	0.002
	Chrome metal	KA1-8021	1SFA616920R8021	10	0.015
Selector switches	Black plastic	CA1-8077	1SFA619920R8077	10	0.002
	Chrome metal	CA1-8078	1SFA619920R8078	10	0.010
Square bezel					
Black plastic	-		SK616016-2	10	0.001
Lockable shroud					
Pushbuttons, selector switches	Plastic	MA1-8153	1SFA611920R8153	10	0.023
Emergency stop 30 mm	Metal	-	SK615502-D	1	0.080
Touch guard					
Touch guard		MA1-8152	1SFA611920R8152	10	0.023
Shroud with anti rotation tabs, slot for water drainage					
Emergency stop, machine stop 40 mm	● Yellow	CA1-8053	1SFA619920R8053	10	0.016
	● Grey	CA1-8054	1SFA619920R8054	10	0.016
Lamp changing tool					
Lamp changing tool		KA1-8072	1SFA616920R8072	1	0.002

Note: Din-rail adapter should be used with 2 contact blocks for rear mounting type MCB..B.



CA1

Dimensions (mm, inches)

Compact range

Accessories



CA1-8080

1SFC151276V0001



MA1-8015

1SFC151275V0001



MA1-8149

1SFC151004F0001



MA1-8019

1SFC151385V0001

Description	Bezel / color	Type	Order code	Pkg qty	Weight (1pce) kg
DIN-rail adapter					
DIN-rail adapter with 2 dummy block		CA1-8080	1SFA619920R8080	1	0.028
Mounting tools					
For tightening the locking nut					
Plastic / Mounting tool manual		MA1-8015	1SFA611920R8015	1	0.021
Metal / Mounting tool for power tool		MA1-8149	1SFA611920R8149	1	0.155
Extra key					
Key code 455			SK616021-71	10	0.007
Key code 421			SK616021-72	10	0.007
Key code 3433-E			SK616021-73	10	0.007
Locking nut					
Locking nut		MA1-8019	1SFA611920R8019	10	0.001

Compact range

Technical data

Standards and approvals

IEC / EN 60947-1	Low Voltage switchgear and control gear–Part 1: General rules
IEC / EN 60947-5-1	Low Voltage switchgear and control gear–part 5-1: control circuit devices and switching elements–Electromechanical control circuit devices
IEC / EN 60947-5-5	Low Voltage switchgear and control gear–part 5-5: control circuit devices and switching elements–Electrical emergency stop device with mechanical latching function
IEC / EN 60073	Basic and safety principles for man-machine interface, marking and identification coding principles for indicators and actuators
IEC / EN 60529	Degrees of protection provided by enclosures (IP code)
EN 50013	Low Voltage switchgear and control gear for industrial use, terminal marking and distinctive number for particular control switches
DIN 40050-9	Road vehicles; degrees of protection (IP-code); protection against foreign objects; water and contact; electrical equipment
UL 508	Industrial control equipment
CSA C22.2 No 14	Industrial control equipment

Environmental data

Degrees of protection

Operators	IEC/EN DIN	UL/CSA
Pushbutton	IP66, IP67 and IP69K	Type 1, 3R, 4, 4X, 12, 13
Selector switches	IP66, IP67 and IP69K	Type 1, 3R, 4, 4X, 12, 13
Buzzer	IP66, IP67 and IP69K	Type 1, 3R, 4, 4X, 12, 13
Heavy duty	IP66, IP67 and IP69K	Type 1, 3R, 4, 4X, 12, 13
Pilot lights	IP66, IP67 and IP69K	Type 1, 3R, 4, 4X, 12, 13
Emergency stops	IP66, IP67 and IP69K	Type 1, 3R, 4, 4X, 12, 13
Terminals	IP20	-

Temperature

Ambient temperature during operation	-25 to +70 °C
Storage temperature	-40 to +85 °C

Technical data

Connecting capacity

Compact range M3.0 (pushbutton, selector switch, emergency stop)

	1x 0.5...1.5 mm ²
	2x 0.5...1.5 mm ²
	1x 0.5...1.5 mm ²
	2x 0.5...1.5 mm ²
	1x 0.5...1.5 mm ²
	2x 0.5...1.5 mm ²
	1x 0.5...1.5 mm ²
	2x 0.5...1.5 mm ²
	L < 5.9 mm
	l > 3.0 mm
Stripping length	6.0 mm

Technical data

Connecting capacity

Compact range M3.5 (Pilot light)

	1x 0.75...2.5 mm ²
	2x 0.75...2.5 mm ²
	1x 0.75...2.5 mm ²
	2x 0.75...2.5 mm ²
	1x 0.75...2.5 mm ²
	2x 0.75...2.5 mm ²
	1x 0.75...2.5 mm ²
	2x 0.75...2.5 mm ²
	L < 7.0 mm
	l > 3.5 mm

Stripping length	8.0 mm
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Tightening torque

Cable terminals M3	0.8 Nm
Cable terminals M3.5	0.9 Nm
Recommended screw-driver for cable terminal	Pozidriv 2
Operators locking nut	Min. 2 Nm / Max. 2.3 Nm

Short circuit protection

Max. fuse at 1 kA	gG 10A
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Mechanical life

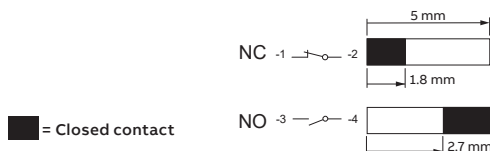
Pushbuttons, selector switches, heavy duty	500 000 operations
Emergency stop pushbutton	50 000 operations

LED products (Pilot lights, illuminated pushbuttons)

Service life for LED means number of service hours until the brightness has been reduced down 50%. Service life 50 000 h, operating at 25 °C, 40~70%rh (relative humidity)

Color of white LED	x = 0.31 Y = 0.32 means the position of color in the ICI chromaticity diagram
Voltage tolerance on LED	-30 to +10% voltage is acceptable without affecting the service life
Voltage peaks on LED	Voltage peaks up to 1000 V current peaks up to 500 mA during a few msec
Glowing light	All integrated LED have a function built in to cut leakage currents
Rated frequency	50/60 Hz for AC supplied products

Make-and-break contacts



Compact range

Technical data

Material		
No ozone depleting substances in the products.		
All front of panel plastic components are made of polycarbonate		
PC polycarbonate	High impact strength, good outdoor resistance. Chemical resistance (see table below)	
PSU polysulphone	Can withstand high temperatures, acids, basic solutions, alkaline compounds, oils, alcohols	
PA polyamide	Can withstand high temperatures, aliphatic, aromatic and chlorinated hydrocarbons, esters, ketone-aldehydes, alcohols and basic solutions	
PBT	Can withstand high temperature, aliphatic and aromatic hydrocarbons, acids, basic solutions, alcohols, grease and oils	
Zinc	Good corrosion resistance in inland-, sea and industrial atmosphere	
Light-alloy	Good corrosion resistance in inland-, sea and industrial atmosphere	
Chemical resistance for polycarbonate		
Chemical class	Effects	
Acids	No significant effect under most typical conditions of concentration and temperature	
Alcohols and alkalis	Generally compatible at low concentration and room temperature. Higher concentrations and elevated temperatures can result in etching and attack evidenced by decomposition	
Aliphatic hydrocarbons	Generally compatible	
Amines	Surface crystallization and chemical attack	Avoid
Aromatic hydrocarbons	Partial solvents and severe stress cracking agents (i.e., xylene, toluene).	Avoid
Detergents and cleaners	Mild soap solutions are generally compatible. Strong alkaline materials should be avoided	
Esters	Cause severe crystallization. Partial solvents.	Avoid
Greases and oils	Pure petroleum types generally compatible. Many additives used with them are not	
Halogenated, hydrocarbons	Solvents.	Avoid
Ketones	Cause severe crystallization and stress cracking. Partial solvents.	Avoid
Silicone oil and greases	Generally compatible up to 85 °C	

Note: Specified degree of protection is for operator mounted on panel. If other items are mounted in between, please make sure that they are correctly sealed.

Electrical data			
Contacts			
Rated frequency		50-60 Hz	
Ratings as per IEC 60947-5-1			
Rated insulation voltage, U_i		300 V	
Rated thermal current, I_{th}		5 A	
Rated operational current, I_e	at: 240 V	1 A	
Utilization category AC 15,			
Rated operational current, I_e	at: 24 V	0.3 A	
Utilization category DC 13,	at: 125 V	0.2 A	
Rated impulse withstand voltage	U_{imp}	6 kV	
Pollution degree		3	
Ratings as per UL, CSA, NEMA		C300 AC	R300 DC
Rated insulation voltage		250 V	250 V
Rated thermal current		2.5 A	1 A
Rated operational current	at: 120 V	1.5 A	
	at: 125 V		0.22 A
	at: 240 V	0.75 A	
	at: 250 V		0.11 A
Short circuit protection			
Max. fuse at 1 kA		gG 10A	
Buzzer			
Short circuit protection			
Max. fuse at 1 kA		gG 10A	
Ratings as per IEC 60947-5-1			
Rated insulation voltage, U_i		300 V	
Rated impulse withstand voltage u_{imp}		4 kV	
Rated frequency		50-60 Hz	
Product service life		> 5000 hours	
Signal output			
Sound level		≥ 80 dB /10 cm	
Audio frequency		6.7 kHz	
Pulsating frequency of light and sound output		2 Hz	

Compact range

Technical data

Illuminated pushbuttons CP

Color	Current		Illuminance of flush cap		Illuminance of extended cap		Anti-inductive peak voltage	Main wavelength	Color temperature
	mA		lx		lx				
	Min.	Max.	Min.	Max.	Min.	Max.	V	Nm	K
Voltage range 24 V AC / DC									
● Red	8.5	11.5	150	600	120	400	5	620 ... 625	–
● Green	8.0	11.0	200	800	150	500	5	515 ... 520	–
● Yellow	8.5	11.5	200	800	120	400	5	585 ... 590	–
● Blue	8.5	10.5	200	500	200	400	5	465 ... 470	–
○ Clear	8.5	10.5	620	1000	360	700	5	–	8000 ... 12000
Voltage range 110 ... 130 V AC / DC									
● Red	6.5	9.0	150	600	100	350	15	620 ... 625	–
● Green	6.5	9.0	150	600	100	350	15	515 ... 520	–
● Yellow	6.5	9.0	150	600	100	350	15	585 ... 590	–
● Blue	6.5	9.0	200	450	180	300	15	465 ... 470	–
○ Clear	6.5	9.0	520	860	300	600	15	–	8000 ... 12000
Voltage range 230 V AC / DC									
● Red	4.0	6.0	150	600	120	400	15	620 ... 625	–
● Green	4.0	6.0	150	900	150	500	15	515 ... 520	–
● Yellow	4.0	6.0	150	600	150	500	15	585 ... 590	–
● Blue	4.0	6.0	250	500	250	400	15	465 ... 470	–
○ Clear	4.0	6.0	650	1050	380	720	15	–	8000 ... 12000

Note: The testing distance of illuminance is 2 mm between top lens and sensor surface. Clean test environment, supply voltage at 50 / 60 Hz with harmonized wave and without high frequency.

Compact range

Technical data

Pilot light CL2

Color	Current		Illuminance		Anti-inductive peak voltage	Main wavelength	Color temperature
	mA Min.	Max.	lx Min.	Max.	V	Nm	K
Voltage range 6.3 V DC							
● Red	13	16	45	250	2	620 ... 625	–
● Green	9.5	12.5	114	245	2	515 ... 520	–
● Yellow	13	16	65	210	2	585 ... 590	–
● Blue	9.5	12.5	8	35	2	465 ... 470	–
○ Clear	10	13	300	850	2	–	8000 ... 12000
Voltage range 12 V DC							
● Red	14	16	100	280	2	620 ... 625	–
● Green	12	14	165	310	2.5	515 ... 520	–
● Yellow	13.5	16	85	230	2.5	585 ... 590	–
● Blue	12	14	10	50	2.5	465 ... 470	–
○ Clear	12.5	14.5	480	850	2.5	–	8000 ... 12000
Voltage range 24 V AC / DC							
● Red	14	16	75	240	6	620 ... 625	–
● Green	13.5	15	120	320	6	515 ... 520	–
● Yellow	14	16	55	230	6	585 ... 590	–
● Blue	13.5	15	8	30	6	465 ... 470	–
○ Clear	13.5	15	450	700	6	–	8000 ... 12000
Voltage range 48 ... 60 V AC / DC							
● Red	14.5	16.5	75	200	7	620 ... 625	–
● Green	14.5	16.5	140	340	7	515 ... 520	–
● Yellow	14.5	16.5	55	330	7	585 ... 590	–
● Blue	14.5	16.5	10	45	7	465 ... 470	–
○ Clear	14.5	16.5	550	800	7	–	8000 ... 12000
Voltage range 110 ... 130 V AC							
● Red	14.5	17	85	340	20	620 ... 625	–
● Green	14.5	17	95	400	20	515 ... 520	–
● Yellow	14.5	17	85	250	20	585 ... 590	–
● Blue	14.5	17	8	30	20	465 ... 470	–
○ Clear	14.5	17	400	700	20	–	8000 ... 12000
Voltage range 110 ... 130 V DC							
● Red	7.5	9.5	40	110	20	620 ... 625	–
● Green	7.5	9.5	80	250	20	515 ... 520	–
● Yellow	7.5	9.5	45	165	20	585 ... 590	–
● Blue	7.5	9.5	6	35	20	465 ... 470	–
○ Clear	7.5	9.5	300	400	20	–	8000 ... 12000

Note: The testing distance of illuminance is 2 mm between top lens and sensor surface. Clean test environment, supply voltage at 50 / 60 Hz with harmonized wave and without high frequency.

Compact range

Technical data

Pilot light CL2

Color	Current		Illuminance		Anti-inductive peak voltage	Main wavelength	Color temperature
	mA Min.	Max.	lx Min.	Max.	V	Nm	K
Voltage range 220 V DC							
● Red	5	6	15	85	20	620 ... 625	–
● Green	5	6	55	180	20	515 ... 520	–
● Yellow	5	6	15	115	20	585 ... 590	–
● Blue	5	6	5	35	20	465 ... 470	–
○ Clear	5	6	200	320	20	–	8000 ... 12000
Voltage range 230 V AC							
● Red	14.5	17	85	340	30	620 ... 625	–
● Green	14.5	17	95	400	35	515 ... 520	–
● Yellow	14.5	17	85	235	35	585 ... 590	–
● Blue	14.5	17	8	30	35	465 ... 470	–
○ Clear	14.5	17	400	700	35	–	8000 ... 12000
Voltage range 380 ... 415 V AC							
● Red	14.5	17	85	340	55	620 ... 625	–
● Green	14.5	17	95	400	65	515 ... 520	–
● Yellow	14.5	17	100	270	65	585 ... 590	–
● Blue	14.5	17	8	30	65	465 ... 470	–
○ Clear	14.5	17	400	700	65	–	8000 ... 12000
Voltage range 230 V AC high anti-inductive voltage							
● Red	14.5	17	55	255	60	620 ... 625	–
● Green	14.5	17	60	265	80	515 ... 520	–
● Yellow	14.5	17	45	210	70	585 ... 590	–
● Blue	14.5	17	5	25	80	465 ... 470	–
○ Clear	14.5	17	280	490	80	–	8000 ... 12000

Note: The testing distance of illuminance is 2 mm between top lens and sensor surface. Clean test environment, supply voltage at 50 / 60 Hz with harmonized wave and without high frequency.

Compact range

Technical data

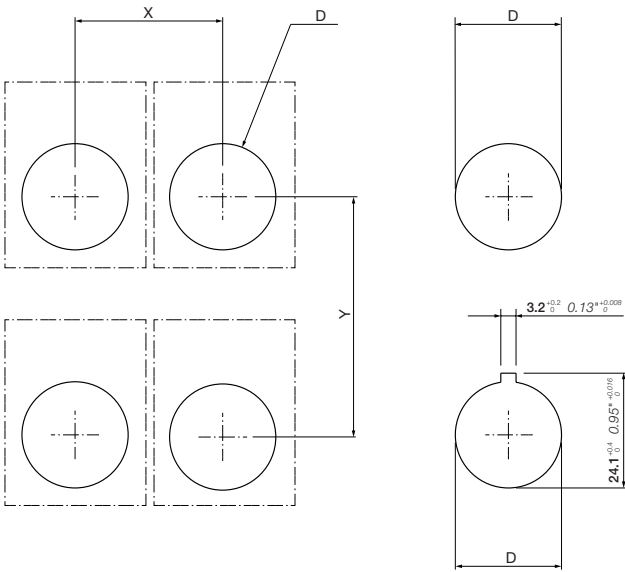
Buzzer CB

Color		Light and sound output		Current		Illuminance		Sound press level
				mA Min.	Max.	lx Min.	Max.	(dB/10cm)
Voltage range 24 V AC / DC								
●	Red	Pulsation	63	75	150	450	≥90	
●	Yellow	Pulsation	63	75	70	300	≥90	
●	Green	Continuous	43	53	150	600	≥90	
●	Black	Pulsation	58	72	–	–	≥90	
●	Black	Continuous	40	50	–	–	≥90	
Voltage range 110 ... 30 V AC								
●	Red	Pulsation	71	81	70	300	≥90	
●	Yellow	Pulsation	72	87	150	450	≥90	
●	Green	Continuous	50	60	150	600	≥90	
●	Black	Pulsation	42	54	–	–	≥90	
●	Black	Continuous	40	50	–	–	≥90	
Voltage range 110 ... 130 V DC								
●	Red	Pulsation	13	18	5	50	≥80	
●	Yellow	Pulsation	13	18	5	50	≥80	
●	Green	Continuous	13	18	15	100	≥80	
●	Black	Pulsation	13	18	–	–	≥80	
●	Black	Continuous	13	18	–	–	≥80	
Voltage range 230 V AC								
●	Red	Pulsation	70	84	150	450	≥90	
●	Yellow	Pulsation	72	82	70	300	≥90	
●	Green	Continuous	50	62	350	900	≥90	
●	Black	Pulsation	42	54	–	–	≥90	
●	Black	Continuous	43	53	–	–	≥90	

Note: The testing distance of illuminance is 2 mm between top lens and sensor surface. Clean test environment, supply voltage at 50 / 60 Hz with harmonized wave and without high frequency.
Fluctuation of rated voltage: -10% to +10%.

Compact range

Drilling plan



Type	Description	X	Y	D		Panel thickness
				Ø mm	inch	
CP, CL, CSS, CB	Pushbutton, Pilot light, Selector switch, Buzzer	31 1.22"	50 1.97"	Ø 22.3 ^{+0.4} ₀	0.88" ^{+0.016} ₀	1.5 0.06"–6 0.24"
CP, CL, CSS, CB	Pushbutton, Pilot light, Selector switch, Buzzer (with legend plate)	31 1.22"	55 2.17"	Ø 22.3 ^{+0.4} ₀	0.88" ^{+0.016} ₀	1.5 0.06"–6 0.24"
CPM, CP6, CE	Mushroom pushbutton, Heavy duty pushbutton	41 1.61"	55 2.17"	Ø 22.3 ^{+0.4} ₀	0.88" ^{+0.016} ₀	1.5 0.06"–6 0.24"

Pilot devices

Enclosures and assembled stations

Ordering details

123	Plastic enclosures for modular and compact range
124	Accessories for plastic enclosures
125	LED blocks for rear mounting
127	Legend plate holders and inserts
128	Legend plate for plastic enclosures MEP and CEP
129	Selector switches for vertical mounting
130	Assembled stations
131	Assembled stations–Dimensions

Enclosures



Plastic enclosure for modular and compact

This enclosure can fit both modular and compact operators with the unique possibility to mount up to 5 contact blocks assigned to one operator.

Degree of protection: IP66 UL/NEMA type 1, 3R, 4, 4X, 12, 13



Compact plastic enclosure

The compact enclosure is one of the smallest on the market intended for compact operators.

Degree of protection: IP66, 67, 69K UL/NEMA type 1, 3R, 4, 4X, 12, 13

Metal enclosure

Metal line is made in addition to our plastic lines when metal is required. Featuring a high protection degree and large installation space.

Degree of protection: IP66, 67, 69K



Assembled stations

We can also offer some of the most common assembled stations as a standard in combination with both modular and compact range.

Enclosures

Plastic enclosures for modular and compact range



MEPY1-0

1SFC151270V0001



MEP2-0

1SFC151272V0001



MEP3-0

1SFC151274V0001



MA1-8053

1SFC151384V0001



MA1-8128

1SFC151383V0001



CEP1-0

1SFC151284V0001



CEPY1-0

1SFC151285V0001



CA1-8054

1SFC151287V0001



CA1-8053

1SFC151286V0001

Description

When ordering complete enclosures:

- Select operators (modular or compact)
- For modular, select contact blocks and LED blocks for rear mounting (in accessories section)
- Per operator select between
 - One legend plate
 - One shroud (only for 1-seat)
 - One spacer
 - No accessory (only for compact range)
- Select cable gland

UL-listed applications: For end of line use only

According to the safety of machinery EN / ISO 13850 emergency stop pushbuttons should be mounted on yellow background

Description	Color	Holes for cable gland	Type	Order code	Pkg qty	Weight (1 pce) kg
Plastic enclosures						
Empty plastic enclosures with stainless steel screws for modular and compact range						
1-seat	Dark gray / light gray	M20 and Pg 13.5/ Pg16 and (M20)	MEP1-0	1SFA611811R1000	1	0.15
1-seat	Yellow / light gray	M20 and Pg 13.5/ Pg16 and (M20)	MEPY1-0	1SFA611821R1000	1	0.15
2-seat	Dark gray / light gray	M20 and Pg 13.5/ Pg16 and (M20)	MEP2-0	1SFA611812R1000	1	0.17
3-seat	Dark gray / light gray	M20 and Pg 13.5/ Pg16 and (M20)	MEP3-0	1SFA611813R1000	1	0.20
4-seat	Dark gray / light gray	M25/Pg 16 and (M20)	MEP4-0	1SFA611814R1000	1	0.23
6-seat	Dark gray / light gray	M25/Pg 16 and (M20)	MEP6-0	1SFA611816R1000	1	0.30

Shrouds

To be mounted on MEP 1-seat enclosures or on panels

Yellow	MA1-8053	1SFA611920R8053	1	0.02
Grey	MA1-8128	1SFA611920R8128	1	0.02

Compact plastic enclosures

Empty enclosure for compact range

1-seat	Yellow / light gray	M20 and Pg 13.5/ Pg16 and (M20)	CEPY1-0	1SFA619821R1000	1	0.072
1-seat	Dark gray / light gray	M20 and Pg 13.5/ Pg16 and (M20)	CEP1-0	1SFA619811R1000	1	0.072

Shrouds

To be mounted on CEP-series of enclosures or on panel

Yellow	CA1-8053	1SFA619920R8053	1	0.016
Grey	CA1-8054	1SFA619920R8054	1	0.016

Enclosures

Accessories for plastic enclosures



MCB-10B

1SFC151378V0001



MCB-11B

1SFC151373V0001



MCB-02B

1SFC151374V0001



MCB-01BG

1SFC151379V0001



MA5-3001

MA5-300



MA1-8130

1SFC151394V0001



MA1-8129

1SFC151395V0001



MA1-8136

1SFC151393V0001

Description

To be used with MEP plastic enclosure or on DIN-rail

Description	Contacts	Type	Order code	Pkg qty	Weight (1 pce)
					kg

Contact blocks for rear mounting

Single contact block	1 0	MCB-10B	1SFA611610R2001	10	0.013
	0 1	MCB-01B	1SFA611610R2010	10	0.013
Double contact block	1 1	MCB-11B	1SFA611610R2011	10	0.026
	2 0	MCB-20B	1SFA611610R2002	10	0.026
	0 2	MCB-02B	1SFA611610R2020	10	0.026

Contact blocks with gold plated contacts

Single contact block	1 0	MCB-10BG	1SFA611610R2101	10	0.013
	0 1	MCB-01BG	1SFA611610R2110	10	0.013

Cable glands

Grey plastic, threaded outer sleeve with sealing ring included. Nut not included.

M25	MA5-3001	1SFA611925R3001	10	0.015
M20	MA5-3002	1SFA611925R3002	10	0.015
PG 13.5	MA5-3006	1SFA611925R3006	10	0.010
PG 16	MA5-3007	1SFA611925R3007	10	0.015

Nuts

Grey plastic, for cable glands above

M25	MA5-3003	1SFA611925R3003	10	0.005
M20	MA5-3004	1SFA611925R3004	10	0.005
PG 13.5	MA5-3008	1SFA611925R3008	10	0.001
PG 16	MA5-3009	1SFA611925R3009	10	0.001

Sealing ring for operator hole

For plastic enclosure	MA1-8150	1SFA611920H8150	100	0.001
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Spacers

Needed when legend plates or shrouds are not used in plastic enclosures with rear mounted contact block. 1 mm thick.

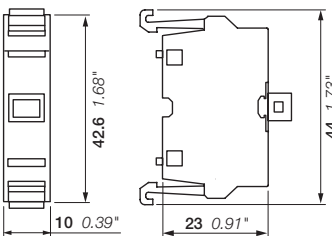
Spacer	-	SK615516-1	10	0.002
Spacer for modular MPMP/T	KA1-8045	1SFA616920R8045	10	0.004
Spacer with rotation stop	MA1-8160	1SFA611920R8160	10	0.003

Blanking plugs

Grey	MA1-8129	1SFA611920R8129	10	0.005
Black	MA1-8130	1SFA611920R8130	10	0.005
Light grey	MA1-8136	1SFA611920R8136	10	0.005

Adapter

PG 16/M20	MA5-3010	1SFA611925R3010	10	0.010
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MCB
Dimensions (mm, inches)

Enclosures

LED blocks for rear mounting



MLBL-00BW

1SFA611621R2001

Description

To be used in MEP plastic enclosure or on DIN-rail

Color	Rated current mA	Wave-length nm	Lumi-nance mcd	Type	Order code	Pkg qty	Weight (1 pce) kg
Rated voltage 12 V DC (1)							
● Red	12.0	620	320	MLBL-00BR	1SFA611621R2001	10	0.012
● Green	9.3	520	1500	MLBL-00BG	1SFA611621R2002	10	0.012
● Yellow	12.0	588	380	MLBL-00BY	1SFA611621R2003	10	0.012
● Blue	9.5	468	450	MLBL-00BL	1SFA611621R2004	10	0.012
○ White	9.3	(2)	600	MLBL-00BW	1SFA611621R2005	10	0.012
Rated voltage 24 V AC / DC (1)							
● Red	9.9	620	250	MLBL-01BR	1SFA611621R2011	10	0.012
● Green	9.2	520	1500	MLBL-01BG	1SFA611621R2012	10	0.012
● Yellow	9.9	588	250	MLBL-01BY	1SFA611621R2013	10	0.012
● Blue	9.3	468	450	MLBL-01BL	1SFA611621R2014	10	0.012
○ White	9.2	(2)	600	MLBL-01BW	1SFA611621R2015	10	0.012
Rated voltage 48 V AC / DC (1)							
● Red	10.0	620	260	MLBL-02BR	1SFA611621R2021	10	0.012
● Green	9.7	520	1500	MLBL-02BG	1SFA611621R2022	10	0.012
● Yellow	10.0	588	300	MLBL-02BY	1SFA611621R2023	10	0.012
● Blue	9.7	468	450	MLBL-02BL	1SFA611621R2024	10	0.012
○ White	9.7	(2)	600	MLBL-02BW	1SFA611621R2025	10	0.012
Rated voltage 60 V AC / DC (1)							
● Red	13.0	620	350	MLBL-03BR	1SFA611621R2031	10	0.012
● Green	12.7	520	2000	MLBL-03BG	1SFA611621R2032	10	0.012
● Yellow	13.0	588	400	MLBL-03BY	1SFA611621R2033	10	0.012
● Blue	12.7	468	550	MLBL-03BL	1SFA611621R2034	10	0.012
○ White	12.7	(2)	750	MLBL-03BW	1SFA611621R2035	10	0.012
Rated voltage 110 ... 130 V AC							
● Red	8.6	620	200	MLBL-04BR	1SFA611621R2041	10	0.012
● Green	8.5	520	1200	MLBL-04BG	1SFA611621R2042	10	0.012
● Yellow	8.6	588	250	MLBL-04BY	1SFA611621R2043	10	0.012
● Blue	7.0	468	400	MLBL-04BL	1SFA611621R2044	10	0.012
○ White	7.0	(2)	500	MLBL-04BW	1SFA611621R2045	10	0.012
Rated voltage 110 ... 130 V DC (1)							
● Red	9.9	620	250	MLBL-05BR	1SFA611621R2051	10	0.012
● Green	9.8	520	1500	MLBL-05BG	1SFA611621R2052	10	0.012
● Yellow	9.9	588	300	MLBL-05BY	1SFA611621R2053	10	0.012
● Blue	9.8	468	450	MLBL-05BL	1SFA611621R2054	10	0.012
○ White	9.8	(2)	600	MLBL-05BW	1SFA611621R2055	10	0.012
Rated voltage 220 V DC (1)							
● Red	8.0	620	180	MLBL-06BR	1SFA611621R2061	10	0.012
● Green	8.0	520	110	MLBL-06BG	1SFA611621R2062	10	0.012
● Yellow	8.0	588	200	MLBL-06BY	1SFA611621R2063	10	0.012
● Blue	8.0	468	450	MLBL-06BL	1SFA611621R2064	10	0.012
○ White	8.0	(2)	600	MLBL-06BW	1SFA611621R2065	10	0.012

Note:

(1) Care should be taken for DC supply where + and – must be correctly connected. This is marked X1 (+) and X2 (–) on the product.

(2) X=0.31, Y=0.32 according to the ICI Chromaticity diagram.

For technical data, please refer to modular range section.

Enclosures

LED blocks for rear mounting



MLBL-07BW

15FC15146V0001

Description

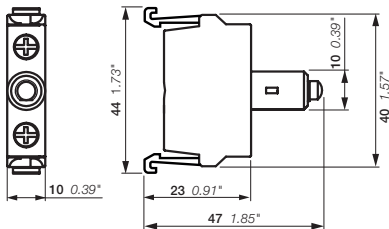
To be used in MEP plastic enclosure or on DIN-rail

Color	Rated current mA	Wave-length nm	Lumi-nance mcd	Type	Order code	Pkg qty	Weight (1 pce) kg
Rated voltage 230 V AC							
Red	9.5	620	250	MLBL-07BR	1SFA611621R2071	10	0.012
Green	9.4	520	1500	MLBL-07BG	1SFA611621R2072	10	0.012
Yellow	9.5	588	300	MLBL-07BY	1SFA611621R2073	10	0.012
Blue	8.2	468	450	MLBL-07BL	1SFA611621R2074	10	0.012
White	8.2	(2)	600	MLBL-07BW	1SFA611621R2075	10	0.012

Rated voltage 380 V AC							
Red	10.2	620	250	MLBL-08BR	1SFA611621R2081	10	0.012
Green	10.2	520	1500	MLBL-08BG	1SFA611621R2082	10	0.012
Yellow	10.2	582	300	MLBL-08BY	1SFA611621R2083	10	0.012
Blue	9.1	468	450	MLBL-08BL	1SFA611621R2084	10	0.012
White	9.1	(2)	600	MLBL-08BW	1SFA611621R2085	10	0.012

Rated voltage 415 V AC							
Red	11.2	620	280	MLBL-09BR	1SFA611621R2091	10	0.012
Green	11.2	520	1800	MLBL-09BG	1SFA611621R2092	10	0.012
Yellow	11.2	588	350	MLBL-09BY	1SFA611621R2093	10	0.012
Blue	9.9	468	500	MLBL-09BL	1SFA611621R2094	10	0.012
White	9.9	(2)	650	MLBL-09BW	1SFA611621R2095	10	0.012

Note:
(1) Care should be taken for DC supply where + and–must be correctly connected. This is marked X1 (+) and X2 (–) on the product.
(2) X=0.31, Y=0.32 according to the ICI Chromaticity diagram.
For technical data, please refer to modular range section.

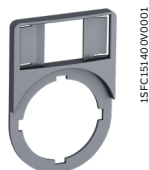


MLBL

Dimensions (mm, inches)

Enclosures

Legend plate holders and inserts



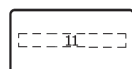
MA6-1060

1SFC15140-0V0001

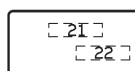


MA6-1061

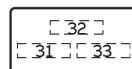
1SFC15138-0V0001



1-position insert



2-position insert



3-position insert

Description

For Ø 22 mm operator, can be used with MEP plastic enclosures, laser marked with text or symbols. Inserts are made of plastic and aluminum laminate.

Description	Type	Order code	Pkg qty	Weight (1pce) kg
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Legend plate holder

Grey plastic	MA6-1060	1SFA611930R1060	10	0.002
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Insert

Without text or symbol	MA6-1061	1SFA611930R1061	10	0.001
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1-position inserts

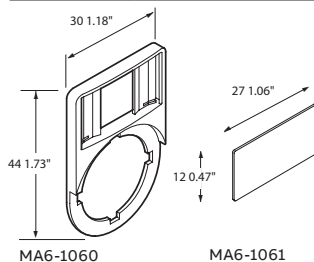
O	MA6-1062	1SFA611930R1062	10	0.001
I	MA6-1063	1SFA611930R1063	10	0.001
II	MA6-1064	1SFA611930R1064	10	0.001
→	MA6-1065	1SFA611930R1065	10	0.001
→	MA6-1130	1SFA611930R1130	10	0.001
→ →	MA6-1131	1SFA611930R1131	10	0.001
Close	MA6-1132	1SFA611930R1132	10	0.001
Open	MA6-1133	1SFA611930R1133	10	0.001
On	MA6-1134	1SFA611930R1134	10	0.001
Off	MA6-1135	1SFA611930R1135	10	0.001
Fast	MA6-1136	1SFA611930R1136	10	0.001
Slow	MA6-1137	1SFA611930R1137	10	0.001
Down	MA6-1138	1SFA611930R1138	10	0.001
Up	MA6-1139	1SFA611930R1139	10	0.001
Start	MA6-1140	1SFA611930R1140	10	0.001
Stop	MA6-1141	1SFA611930R1141	10	0.001
Forward	MA6-1152	1SFA611930R1152	10	0.001
Reverse	MA6-1153	1SFA611930R1153	10	0.001

2-position inserts for selector switches

Pos.21	Pos.22				
O	I	MA6-1170	1SFA611930R1170	10	0.001
I	II	MA6-1171	1SFA611930R1171	10	0.001
→	→ →	MA6-1172	1SFA611930R1172	10	0.001
Off	On	MA6-1173	1SFA611930R1173	10	0.001
Stop	Start	MA6-1174	1SFA611930R1174	10	0.001
Low	High	MA6-1175	1SFA611930R1175	10	0.001
Slow	Fast	MA6-1176	1SFA611930R1176	10	0.001
Close	Open	MA6-1177	1SFA611930R1177	10	0.001
Jog	Run	MA6-1178	1SFA611930R1178	10	0.001
Hand	Auto	MA6-1179	1SFA611930R1179	10	0.001

3-position inserts for selector switches

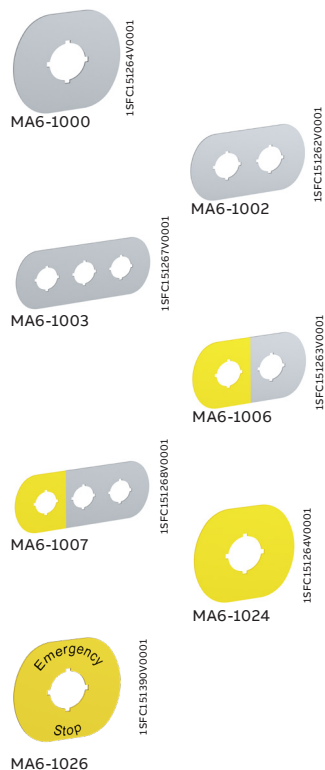
Pos.31	Pos.32	Pos.33				
←	O	→	MA6-1190	1SFA611930R1190	10	0.001
→	O	→ →	MA6-1191	1SFA611930R1191	10	0.001
I	O	II	MA6-1192	1SFA611930R1192	10	0.001
Hand	O	Auto	MA6-1193	1SFA611930R1193	10	0.001
Slow	Off	Fast	MA6-1194	1SFA611930R1194	10	0.001



Dimensions (mm, inches)

Enclosures

Legend plates for plastic enclosures MEP and CEP



Legend plates for MEP plastic enclosures

For Ø 22 mm operator, plastic and aluminum laminate with adhesive back. Combine the emergency stop with the yellow legend plates without text to conform with safety of machinery standard EN/ISO 13850.

Description	Text symbol	Type	Order code	Pkg qty	Weight (1pce) kg
Aluminum and plastic laminate					
1-seat	without text	MA6-1000	1SFA611930R1000	10	0.004
2-seat	without text	MA6-1002	1SFA611930R1002	10	0.006
3-seat	without text	MA6-1003	1SFA611930R1003	10	0.008
4-seat	without text	MA6-1004	1SFA611930R1004	10	0.010
6-seat	without text	MA6-1005	1SFA611930R1005	10	0.012
1-seat	O	MA6-1012	1SFA611930R1012	10	0.004
1-seat	I	MA6-1013	1SFA611930R1013	10	0.004
2-seat	O I	MA6-1014	1SFA611930R1014	10	0.006
3-seat	O II	MA6-1015	1SFA611930R1015	10	0.008
3-seat	I O II	MA6-1016	1SFA611930R1016	10	0.008

Pos. 1 yellow plastic and aluminum laminate

2-seat	without text	MA6-1006	1SFA611930R1006	10	0.006
3-seat	without text	MA6-1007	1SFA611930R1007	10	0.008
4-seat	without text	MA6-1008	1SFA611930R1008	10	0.010
6-seat	without text	MA6-1009	1SFA611930R1009	10	0.012

Emergency stop legend plates for 1-seat enclosures

For horizontally mounted enclosures. Yellow plastic laminate, 66 x 59 mm.

Without text	MA6-1024	1SFA611930R1024	10	0.004
Nöd Stopp	MA6-1025	1SFA611930R1025	10	0.004
Emergency stop	MA6-1026	1SFA611930R1026	10	0.004
Not Aus	MA6-1027	1SFA611930R1027	10	0.004
ARRET D'URGENCE	MA6-1028	1SFA611930R1028	10	0.004
Hätäseis	MA6-1029	1SFA611930R1029	10	0.004

For vertically mounted enclosures. Yellow plastic laminate, 59 x 66 mm.

Nöd Stopp	MA6-1100	1SFA611930R1100	10	0.004
Emergency stop	MA6-1101	1SFA611930R1101	10	0.004
Not Aus	MA6-1102	1SFA611930R1102	10	0.004
ARRET D'URGENCE	MA6-1103	1SFA611930R1103	10	0.004
Hätäseis	MA6-1104	1SFA611930R1104	10	0.004

Legend plates for CEP plastic enclosures

For Ø 22 mm operator

Description	Text symbol	Type	Order code	Pkg qty	Weight (1pce) kg
Emergency stop legend plates					
Black text on yellow aluminum plate Ø 59 mm					
Without text		CA6-1024	1SFA619930R1024	10	0.004
Emergency stop		CA6-1026	1SFA619930R1026	10	0.004
Not Aus		CA6-1027	1SFA619930R1027	10	0.004

Enclosures

Selector switches for vertical mounting



Description

When ordering complete vertically mounted enclosures:

- Select selector switches for vertical mounting
- Select contact blocks and LED blocks for rear mounting.

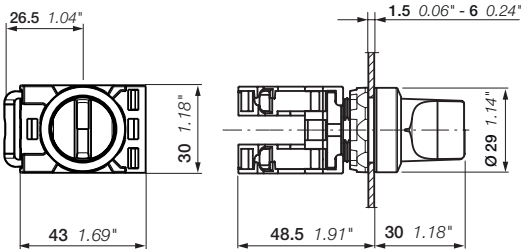
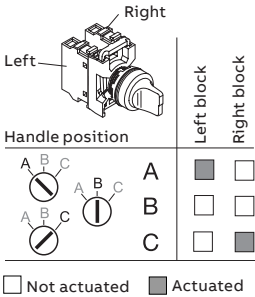
Per operator select between:

- One legend plate for vertical enclosures
- One spacer

Select cable gland.

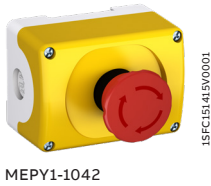
Description	Color	Type	Order code	Pkg qty	Weight (1pce) kg
2-position selector switch					
Short handle, non-illuminated					
	● Black	M2SSV1-10B	1SFA611220R1006	10	0.015
	● Black	M2SSV2-10B	1SFA611221R1006	10	0.015
	● Black	M2SSV3-10B	1SFA611222R1006	10	0.015
3-position selector switch					
Short handle, non-illuminated					
	● Black	M3SSV1-10B	1SFA611230R1006	10	0.015
	● Black	M3SSV2-10B	1SFA611231R1006	10	0.015
	● Black	M3SSV3-10B	1SFA611232R1006	10	0.015

Contacts actuated



M2SSV, M3SSV
Dimensions (mm, inches)

Enclosures
Assembled stations



MEPY1-1042



CEPY1-2001



MEP2-1001

Description

Assembled enclosures with emergency stop pushbuttons, yellow / light gray color designed according to the Safety of machinery standard EN/ISO 13850 for emergency stops.

Release method	Contacts	Type	Order code	Pkg qty	Weight (1 pce)
					kg

1-seat plastic enclosures with 40 mm modular emergency stop pushbuttons
Yellow / light gray color

Twist release	0 2	MEPY1-1042	1SFA611821R1042	1	0.240
Twist release	1 2	MEPY1-1041	1SFA611821R1041	1	0.250
Pull release	0 2	MEPY1-1035	1SFA611821R1035	1	0.466
Twist release with plastic legend plate "Emergency stop"	0 2	MEPY1-1040	1SFA611821R1040	1	0.240

1-seat plastic enclosures with 40 mm compact emergency stop pushbuttons
Yellow / light gray color

Twist release	0 2	CEPY1-1001	1SFA619821R1001	1	0.108
Pull release	0 2	CEPY1-1002	1SFA619821R1002	1	0.108
Key release	1 1	CEPY1-1006	1SFA619821R1006	1	0.105
Twist release, yellow shroud	0 2	CEPY1-2001	1SFA619821R2001	1	0.124
Pull release, yellow shroud	0 2	CEPY1-2002	1SFA619821R2002	1	0.124

1-seat plastic enclosures with 40 mm compact machine stop pushbuttons
Dark gray / light gray color

Twist release	1 1	CEP1-1001	1SFA619811R1001	1	0.108
Pull release	1 1	CEP1-1002	1SFA619811R1002	1	0.108
Twist release, gray shroud	1 1	CEP1-2001	1SFA619811R2001	1	0.124
Pull release, gray shroud	1 1	CEP1-2002	1SFA619811R2002	1	0.124

2-seat plastic enclosure with modular pushbuttons

Dark gray / light gray
Two flush pushbuttons, momentary, black bezel

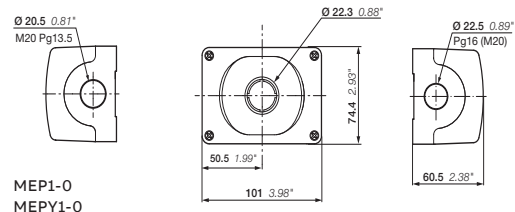
● Green	● Red	MEP2-1001	1SFA611812R1001	1	0.220
1 NO	1 NC				
I	O				

Enclosures

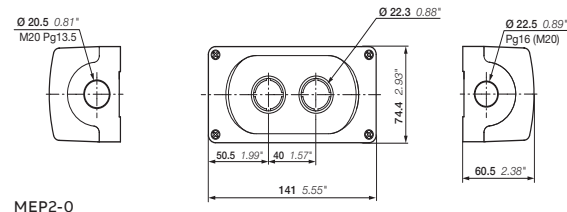
Dimensions

MEP plastic enclosures

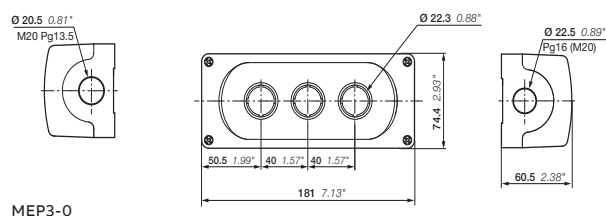
1-seat



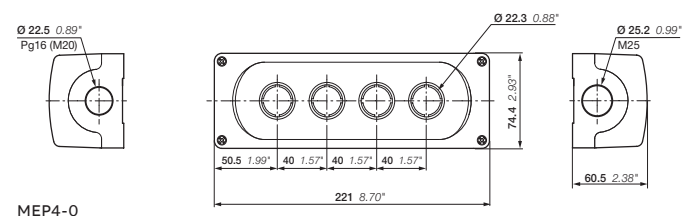
2 seats



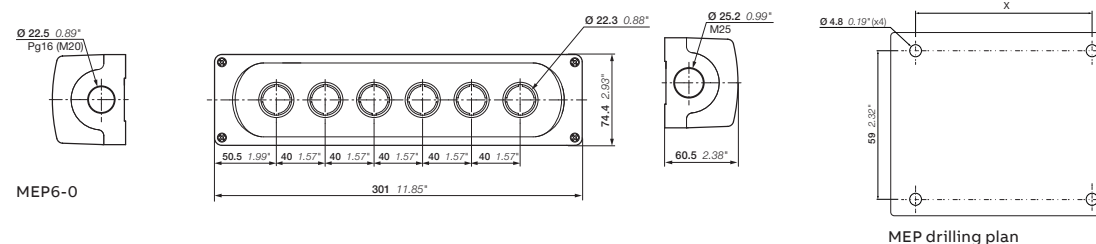
3-seats



4-seats



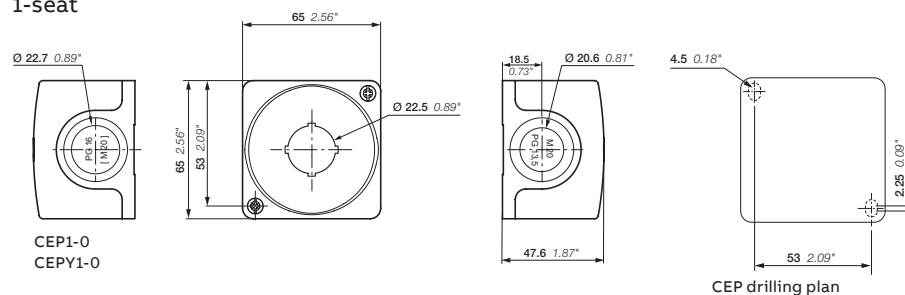
6-seats



Type	X
1-seat	72 mm / 2.83"
2-seats	112 mm / 4.41"
3-seats	152 mm / 5.98"
4-seats	192 mm / 7.56"
6-seats	272 mm / 10.71"

CEP plastic enclosure for compact range

1-seat



Legend plates and text caps

Ordering details

135	Legend plate holder with inserts
136	Legend plates for emergency stop
137	Legend plates for panels
139	Text caps for pilot lights

Legend plates and text caps

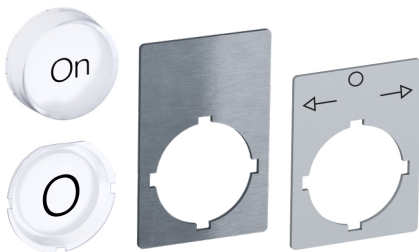
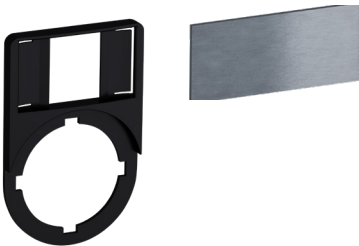
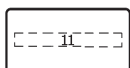
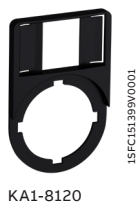


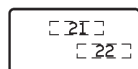
ABB offers a wide range of alternatives to label our products. Choose between marked aluminum legend plates, insert holders with a wide range of marked inserts or texts caps to mount under the lens of the pilot device.

Legend plates and text caps

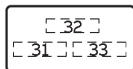
Legend plate holder with inserts



1-position insert



2-position insert



3-position insert

Description

For Ø 22 mm operators installed in panel, laser marked with text or symbols.
Inserts made of plastic and aluminum laminate.

Description	Type	Order code	Pkg qty	Weight (1pce) kg
-------------	------	------------	---------	------------------

Legend plate holder

Black plastic	KA1-8120	1SFA616920R8120	100	0.002
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Insert

Without text or symbol	KA1-8121	1SFA616920R8121	100	0.001
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1-position inserts

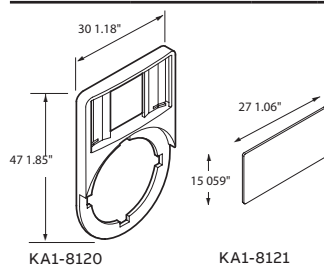
O	MA6-1032	1SFA611930R1032	10	0.001
I	MA6-1033	1SFA611930R1033	10	0.001
→	MA6-1034	1SFA611930R1034	10	0.001
→ →	MA6-1035	1SFA611930R1035	10	0.001
Close	MA6-1036	1SFA611930R1036	10	0.001
Open	MA6-1037	1SFA611930R1037	10	0.001
On	MA6-1038	1SFA611930R1038	10	0.001
Off	MA6-1039	1SFA611930R1039	10	0.001
Fast	MA6-1040	1SFA611930R1040	10	0.001
Slow	MA6-1041	1SFA611930R1041	10	0.001
Down	MA6-1042	1SFA611930R1042	10	0.001
Up	MA6-1043	1SFA611930R1043	10	0.001
Start	MA6-1044	1SFA611930R1044	10	0.001
Stop	MA6-1045	1SFA611930R1045	10	0.001
Reset	MA6-1047	1SFA611930R1047	10	0.001
Run	MA6-1054	1SFA611930R1054	10	0.001
Fault	MA6-1058	1SFA611930R1058	10	0.001
Trip	MA6-1118	1SFA611930R1118	10	0.001
	MA6-1210	1SFA611930R1210	10	0.001

2-position inserts for selector switches

Pos. 21	Pos. 22				
O	I	MA6-1070	1SFA611930R1070	10	0.001
I	II	MA6-1071	1SFA611930R1071	10	0.001
Off	On	MA6-1073	1SFA611930R1073	10	0.001
Stop	Start	MA6-1074	1SFA611930R1074	10	0.001
Low	High	MA6-1075	1SFA611930R1075	10	0.001
Slow	Fast	MA6-1076	1SFA611930R1076	10	0.001
Close	Open	MA6-1077	1SFA611930R1077	10	0.001
Hand	Auto	MA6-1079	1SFA611930R1079	10	0.001

3-position inserts for selector switches

Pos. 31	Pos. 32	Pos. 33			
←	O	→	MA6-1080	1SFA611930R1080	10 0.001
I	O	II	MA6-1082	1SFA611930R1082	10 0.001
Hand	O	Auto	MA6-1083	1SFA611930R1083	10 0.001
Slow	Off	Fast	MA6-1084	1SFA611930R1084	10 0.001
Man		Auto	MA6-1085	1SFA611930R1085	10 0.001
Man	Off	Auto	MA6-1086	1SFA611930R1086	10 0.001
O		I	MA6-1087	1SFA611930R1087	10 0.001



Dimensions (mm, inches)

Legend plates and text caps

Legend plates for emergency stop



1SFA616915R1005

1SFC151386W0001



SK615546-2

1SFC151386W0001

Description

For Ø 22 mm operators installed in panel. Combine the emergency stops with the yellow legend plates and black text to conform with the Safety machinery standard EN/ISO 13850.

Legend plates made of laminate have adhesive back.

Description	Type	Order code	Pkg qty	Weight (1pce) kg
Plastic Ø 70mm				
Without text	KTC15-1038	1SFA616915R1038	10	0.003
Emergency stop	KTC15-1005	1SFA616915R1005	10	0.003
Not Aus	KTC15-6005	1SFA616915R6005	10	0.003
Aluminum Ø 70 mm				
Without text	–	SK615546-8	10	0.010
Nöd Stopp	–	SK615546-1	10	0.010
Emergency stop	–	SK615546-2	10	0.010
Not Aus	–	SK615546-3	10	0.010
ARRET D'URGENCE	–	SK615546-4	10	0.010
HÄTÄSEIS	–	SK615546-5	10	0.010
PARADA DE EMERGENCIA	–	SK615546-6	10	0.010
Emergency stop NOT AUS ARRET D'URGENCE	–	SK615546-13	10	0.010
Noodstop	–	SK615546-15	10	0.010
Aluminum laminate rectangular 59 x 39.5 mm				
Without text	MA6-1010	1SFA611930R1010	10	0.005
Nöd stopp	MA6-1017	1SFA611930R1017	10	0.005
Not haus	MA6-1018	1SFA611930R1018	10	0.005
Emergency stop	MA6-1019	1SFA611930R1019	10	0.005
ARRET D'URGENCE	MA6-1020	1SFA611930R1020	10	0.005
Hätäseis	MA6-1021	1SFA611930R1021	10	0.005
PARADA DE EMERGENCIA	MA6-1022	1SFA611930R1022	10	0.005
Plastic laminate rectangular 59 x 39.5 mm				
Without text	MA6-1011	1SFA611930R1011	10	0.002
Emergency stop	MA6-1023	1SFA611930R1023	10	0.002

Legend plates and text caps

Legend plates for panels



MA16-1001

1SFA611940R1001



CBK-NPE2

SK615562-14



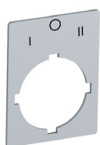
CBK-NPE90

SK615550-61



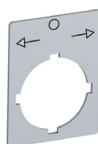
CBK-NPE13

SK615562-25



CBK-NPE99

SK615550-81



SK615562-82

SK615562-82

Description

For Ø 22 mm operators, made of silver-gray aluminum.

Type	Order code	Pkg qty	Weight (1pce) kg
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Without text

Legend plate height 39 mm	MA16-1000	1SFA611940R1000	10	0.002
Legend plate height 44 mm	MA16-1001	1SFA611940R1001	10	0.002

1-position engraved for selector switches and pushbuttons

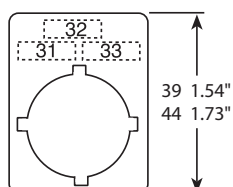
Legend plate height 39 mm

O	CBK-NPE90	10	0.002
I	CBK-NPE91	10	0.002
→	CBK-NPE94	10	0.002
Close	CBK-NPE1	10	0.002
Down	CBK-NPE2	10	0.002
Emergency stop	CBK-NPE3	10	0.002
Fast	CBK-NPE4	10	0.002
Forward	CBK-NPE5	10	0.002
In	CBK-NPE7	10	0.002
Off	CBK-NPE10	10	0.002
On	CBK-NPE11	10	0.002
Open	CBK-NPE12	10	0.002
Raise	CBK-NPE13	10	0.002
Reset	CBK-NPE14	10	0.002
Reverse	CBK-NPE15	10	0.002
Run	CBK-NPE16	10	0.002
Slow	CBK-NPE18	10	0.002
Start	CBK-NPE19	10	0.002
Stop	CBK-NPE20	10	0.002
Up	CBK-NPE21	10	0.002

3-position engraved for selector switches

Legend plate height 39 mm

Pos.31	Pos.32	Pos.33			Pkg qty	Weight (1pce) kg
I	O	II	–	SK615550-81	10	0.002
←	O	→	–	SK615562-82	10	0.002
Hand	O	Auto	CBK-NPE26		10	0.002



3-position engraved

Dimensions (mm, inches)

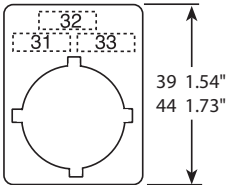
Legend plates and text caps

Legend plates for panels

Description

For Ø 22 mm operators, made of silver-gray aluminum.

		Type	Order code	Pkg qty	Weight (1pce) kg
1-position engraved for selector switches and pushbuttons					
Legend plate height 39 mm					
HORS SERVICE		CBK-NPF10	-	10	0.002
SOUS TENSION		CBK-NPF11	-	10	0.002
REARMEMENT		CBK-NPF14	-	10	0.002
EN SERVICE		CBK-NPF16	-	10	0.002
MARCHE		CBK-NPF19	-	10	0.002
ARRET		CBK-NPF20	-	10	0.002
FAUTE		CBK-NPF34	-	10	0.002
DEPART		CBK-NPF38	-	10	0.002
SURCHARGE		CBK-NPF40	-	10	0.002
2-position engraved for selector switches					
Legend plate height 39 mm					
Pos.31	Pos.32	Pos.33			
	HORS	EN	CBK-NPF24	-	10 0.002
HORS		EN	CBK-NPF24A	-	10 0.002
3-position engraved for selector switches					
Legend plate height 39 mm					
Pos.31	Pos.32	Pos.33			
MAN	HORS	AUTO	CBK-NPF26	-	10 0.002



3-position engraved
Dimensions (mm, inches)

Legend plates and text caps

Text caps for pilot lights



KTC3-1019



KTC3-1020

Description
To be mounted on a pilot light to add text.

Text/symbol	Color	Type	Order code	Pkg qty	Weight (1pce) kg
For pilot lights					
Without text	○ White	KTC3-9000	1SFA616903R9000	10	0.001
On	○ White	KTC3-1020	1SFA616903R1020	10	0.001
Off	○ White	KTC3-1019	1SFA616903R1019	10	0.001

Pilot devices, 30 mm

Heavy duty oil-tight range

Ordering details

142	Non-illuminated flush pushbuttons
143	Non-illuminated extended pushbuttons
144	Illuminated extended pushbuttons
147	Non-illuminated mushroom pushbuttons – 44 mm
149	Non-illuminated mushroom pushbuttons – 60 mm
150	Illuminated mushroom pushbuttons – 44 mm
152	Illuminated mushroom pushbuttons – 44 mm metal
153	Illuminated mushroom pushbuttons – 60 mm
154	Non-illuminated pushbuttons – no cap
155	Pilot lights–LED bulb
157	Non-illuminated selector switches
162	Illuminated selector switches
163	Non-illuminated key-operated selector switches
165	Contact configuration for pushbuttons and selector switches
166	Cam table
167	Contact blocks
168	Accessories
171	NEMA enclosures
172	Name plates

174 Technical data

175 Dimensions

30 mm heavy duty oil-tight range

Non-illuminated flush pushbuttons



A3PBF1-600B-10



A3PBF1-600G-10



A3PBF1-600L-10

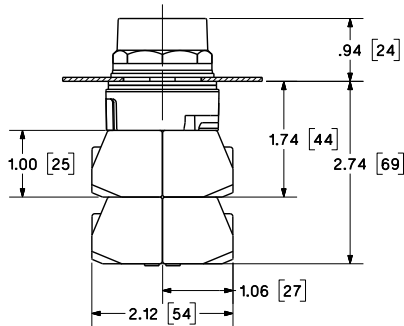


A3PBF1-600R-10

Description

Each reference includes the satin chrome metal body and nut together with the holder.

Color	Voltage	Contacts	Catalog number	Order code	Pkg qty
Momentary					
Assorted Colors	—	0 0	A3PBF1-6007-00	1SQA009171R0001	1
● ● ● ● ● ●	—	0 1	A3PBF1-6007-01	1SQA009172R0001	1
○	—	1 0	A3PBF1-6007-10	1SQA009173R0001	1
—	—	1 1	A3PBF1-6007-91	1SQA010758R0001	1
● Black	—	0 0	A3PBF1-600B-00	1SQA009175R0001	1
—	—	0 1	A3PBF1-600B-01	1SQA009176R0001	1
—	—	1 0	A3PBF1-600B-10	1SQA009177R0001	1
—	—	1 1	A3PBF1-600B-91	1SQA010759R0001	1
● Green	—	0 0	A3PBF1-600G-00	1SQA009179R0001	1
—	—	0 1	A3PBF1-600G-01	1SQA009180R0001	1
—	—	1 0	A3PBF1-600G-10	1SQA009181R0001	1
—	—	1 1	A3PBF1-600G-91	1SQA010760R0001	1
● Blue	—	0 0	A3PBF1-600L-00	1SQA009183R0001	1
—	—	1 0	A3PBF1-600L-10	1SQA009184R0001	1
—	—	1 1	A3PBF1-600L-91	1SQA010761R0001	1
● Red	—	0 0	A3PBF1-600R-00	1SQA009187R0001	1
—	—	0 1	A3PBF1-600R-01	1SQA009188R0001	1
—	—	1 0	A3PBF1-600R-10	1SQA009189R0001	1
—	—	1 1	A3PBF1-600R-91	1SQA010762R0001	1
● Yellow	—	0 0	A3PBF1-600Y-00	1SQA009186R0001	1
—	—	0 1	A3PBF1-600Y-01	1SQA009191R0001	1
—	—	1 0	A3PBF1-600Y-10	1SQA009192R0001	1
—	—	1 1	A3PBF1-600Y-91	1SQA010763R0001	1



Momentary pushbutton non-illuminated flush cap

Dimensions inches, [mm]

30 mm heavy duty oil-tight range

Non-illuminated extended pushbuttons



A3PBE1-600B-11



A3PBE1-600G-91

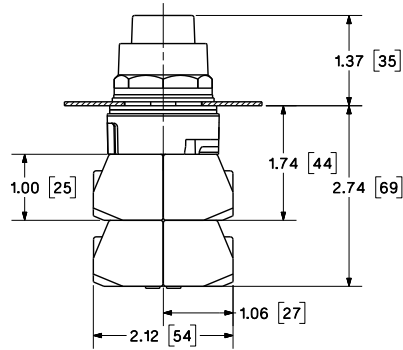


A3PBE1-600R-91

Description

Each reference includes the satin chrome metal body and nut together with the holder.

Color	Voltage	Contacts	Catalog number	Order code	Pkg qty
Momentary					
Assorted Colors	—	0 0	A3PBE1-6007-00	1SQA009152R0001	1
● ● ● ● ● ●	—	0 1	A3PBE1-6007-01	1SQA009153R0001	1
○	—	1 0	A3PBE1-6007-10	1SQA009154R0001	1
—	—	1 1	A3PBE1-6007-91	1SQA010753R0001	1
● Black	—	0 0	A3PBE1-600B-00	1SQA009156R0001	1
	—	0 1	A3PBE1-600B-01	1SQA009157R0001	1
	—	1 0	A3PBE1-600B-10	1SQA009158R0001	1
	—	1 1	A3PBE1-600B-91	1SQA010754R0001	1
● Green	—	0 0	A3PBE1-600G-00	1SQA009160R0001	1
	—	0 1	A3PBE1-600G-01	1SQA009161R0001	1
	—	1 0	A3PBE1-600G-10	1SQA009162R0001	1
	—	1 1	A3PBE1-600G-91	1SQA010755R0001	1
● Red	—	0 0	A3PBE1-600R-00	1SQA009164R0001	1
	—	0 1	A3PBE1-600R-01	1SQA009165R0001	1
	—	1 0	A3PBE1-600R-10	1SQA009166R0001	1
	—	1 1	A3PBE1-600R-91	1SQA010756R0001	1
● Yellow	—	0 0	A3PBE1-600Y-00	1SQA009168R0001	1
	—	1 0	A3PBE1-600Y-10	1SQA009169R0001	1
	—	1 1	A3PBE1-600Y-91	1SQA010757R0001	1



Momentary pushbutton non-illuminated raised cap

Dimensions inches, [mm]

30 mm heavy duty oil-tight range

Illuminated extended pushbuttons



A3PLE1-6L2G-91



A3PLE1-6L2M-91



A3PLE1-6L2R-91



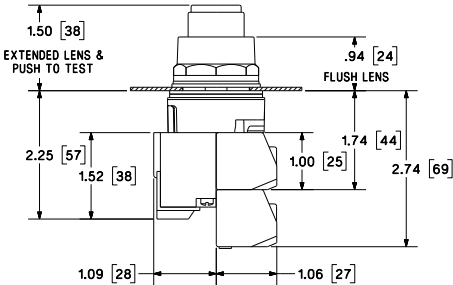
A3PLE1-6L2W-91

Description

Each reference includes the satin chrome metal body and nut together with the holder.

Color	Voltage	Contacts	Catalog number	Order code	Pkg qty
Momentary – full voltage					
○ Clear	24 V AC/DC	1 1	A3PLE1-6L2C-91	1SQA010784R0001	1
● Green	24 V AC/DC	1 0	A3PLE1-6L2G-10	1SQA009218R0001	1
	24 V AC/DC	1 1	A3PLE1-6L2G-91	1SQA010785R0001	1
● Blue	24 V AC/DC	1 1	A3PLE1-6L2L-91	1SQA010786R0001	1
● Amber	24 V AC/DC	0 0	A3PLE1-6L2M-00	1SQA009221R0001	1
	24 V AC/DC	1 0	A3PLE1-6L2M-10	1SQA009222R0001	1
	24 V AC/DC	1 1	A3PLE1-6L2M-91	1SQA010787R0001	1
● Red	24 V AC/DC	0 0	A3PLE1-6L2R-00	1SQA009224R0001	1
	24 V AC/DC	1 1	A3PLE1-6L2R-91	1SQA010788R0001	1
○ White	24 V AC/DC	1 0	A3PLE1-6L2W-10	1SQA009226R0001	1
	24 V AC/DC	1 1	A3PLE1-6L2W-91	1SQA010789R0001	1
○ Clear	120 V AC/DC	1 1	A3PLE1-6L4C-91	1SQA010790R0001	1
● Green	120 V AC/DC	0 0	A3PLE1-6L4G-00	1SQA009229R0001	1
	120 V AC/DC	1 0	A3PLE1-6L4G-10	1SQA009230R0001	1
	120 V AC/DC	1 1	A3PLE1-6L4G-91	1SQA010791R0001	1
● Blue	120 V AC/DC	1 1	A3PLE1-6L4L-91	1SQA010792R0001	1
● Amber	120 V AC/DC	0 0	A3PLE1-6L4M-00	1SQA009233R0001	1
	120 V AC/DC	1 1	A3PLE1-6L4M-91	1SQA010793R0001	1
● Red	120 V AC/DC	0 0	A3PLE1-6L4R-00	1SQA009235R0001	1
	120 V AC/DC	1 0	A3PLE1-6L4R-10	1SQA009236R0001	1
	120 V AC/DC	1 1	A3PLE1-6L4R-91	1SQA010794R0001	1
○ White	120 V AC/DC	1 0	A3PLE1-6L4W-10	1SQA009238R0001	1
	120 V AC/DC	1 1	A3PLE1-6L4W-91	1SQA010795R0001	1

Note:
For push to test instructions follow this link: <https://search.abb.com/library/Download.aspx?DocumentID=1SQC-910005M0201&LanguageCode=en&DocumentPartId=&Action=Launch>



Illuminated pushbutton flush lens
Illuminated pushbutton extended lens
Illuminated push to test

Dimensions inches, [mm]

30 mm heavy duty oil-tight range

Illuminated extended pushbuttons



A3PLE1-6L5G-91



A3PLE1-6L5M-91



A3PLE1-6L5R-91



A3PLE1-6L5W-91

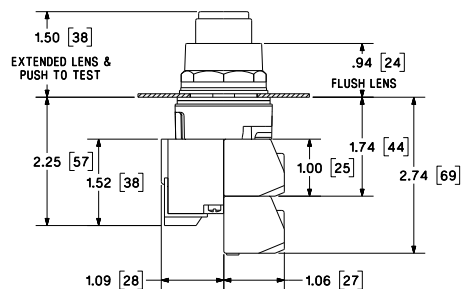
Description

Each reference includes the satin chrome metal body and nut together with the holder.

Color	Voltage	Contacts	Catalog number	Order code	Pkg qty
Momentary – transformer					
○ Clear	120 V AC	1 1	A3PLE1-6L5C-91	1SQA010796R0001	1
● Green	120 V AC	0 0	A3PLE1-6L5G-00	1SQA009241R0001	1
	120 V AC	1 0	A3PLE1-6L5G-10	1SQA009242R0001	1
	120 V AC	1 1	A3PLE1-6L5G-91	1SQA010797R0001	1
● Blue	120 V AC	1 1	A3PLE1-6L5L-91	1SQA010798R0001	1
● Amber	120 V AC	1 0	A3PLE1-6L5M-10	1SQA009245R0001	1
	120 V AC	1 1	A3PLE1-6L5M-91	1SQA010799R0001	1
● Red	120 V AC	1 0	A3PLE1-6L5R-10	1SQA009247R0001	1
	120 V AC	1 1	A3PLE1-6L5R-91	1SQA010800R0001	1
○ White	120 V AC	1 1	A3PLE1-6L5W-91	1SQA010801R0001	1
○ Clear	240 V AC	1 1	A3PLE1-6L6C-91	1SQA010839R0001	1
● Green	240 V AC	1 1	A3PLE1-6L6G-91	1SQA010802R0001	1
● Blue	240 V AC	1 1	A3PLE1-6L6L-91	1SQA010803R0001	1
● Amber	240 V AC	1 1	A3PLE1-6L6M-91	1SQA010804R0001	1
● Red	240 V AC	1 1	A3PLE1-6L6R-91	1SQA010805R0001	1
○ White	240 V AC	1 1	A3PLE1-6L6W-91	1SQA010806R0001	1
○ Clear	277 V AC	1 1	A3PLE1-6L7C-91	1SQA010825R0001	1
● Green	277 V AC	1 1	A3PLE1-6L7G-91	1SQA010820R0001	1
● Blue	277 V AC	1 1	A3PLE1-6L7L-91	1SQA010824R0001	1
● Amber	277 V AC	1 1	A3PLE1-6L7M-91	1SQA010822R0001	1
● Red	277 V AC	1 1	A3PLE1-6L7R-91	1SQA010821R0001	1
○ White	277 V AC	1 1	A3PLE1-6L7W-91	1SQA010823R0001	1
○ Clear	480 V AC	1 1	A3PLE1-6L8C-91	1SQA010840R0001	1
● Green	480 V AC	1 1	A3PLE1-6L8G-91	1SQA010807R0001	1
● Blue	480 V AC	1 1	A3PLE1-6L8L-91	1SQA010837R0001	1
● Amber	480 V AC	1 1	A3PLE1-6L8M-91	1SQA010808R0001	1
● Red	480 V AC	1 1	A3PLE1-6L8R-91	1SQA010809R0001	1
○ White	480 V AC	1 1	A3PLE1-6L8W-91	1SQA010835R0001	1
○ Clear	600 V AC	1 1	A3PLE1-6L9C-91	1SQA010841R0001	1
● Blue	600 V AC	1 1	A3PLE1-6L9L-91	1SQA010838R0001	1
● Amber	600 V AC	1 1	A3PLE1-6L9M-91	1SQA010834R0001	1
● Green	600 V AC	1 1	A3PLE1-6L9G-91	1SQA010810R0001	1
● Red	600 V AC	1 1	A3PLE1-6L9R-91	1SQA010811R0001	1
○ White	600 V AC	1 1	A3PLE1-6L9W-91	1SQA010836R0001	1

Note:

For push to test instructions follow this link: <https://search.abb.com/library/Download.aspx?DocumentID=1SQC-910005M0201&LanguageCode=en&DocumentPartId=&Action=Launch>



Illuminated pushbutton flush lens
Illuminated pushbutton extended lens
Illuminated push to test

Dimensions inches, [mm]

30 mm heavy duty oil-tight range

Illuminated extended pushbuttons



A3PLE1-6LBG-11



A3PLE1-6LBM-11



A3PLE1-6LBR-11



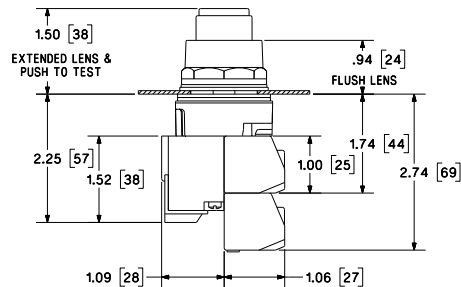
A3PLE1-6LLW-11

Description

Each reference includes the satin chrome metal body and nut together with the holder.

Color	Voltage	Contacts	Catalog number	Order code	Pkg qty
Momentary – full voltage					
Green	6-8 V AC/DC	1 1	A3PLE1-6LBG-91	1SQA010812R0001	1
Blue	6-8 V AC/DC	1 1	A3PLE1-6LBL-91	1SQA010813R0001	1
Amber	6-8 V AC/DC	1 1	A3PLE1-6LBM-91	1SQA010814R0001	1
Red	6-8 V AC/DC	1 1	A3PLE1-6LBR-91	1SQA010815R0001	1
Momentary – integrated LED module					
Clear	6-24V AC/DC	1 1	A3PLE1-6LLC-91	1SQA010833R0001	1
Green	6-24 V AC/DC	1 1	A3PLE1-6LLG-91	1SQA010816R0001	1
Blue	6-24V AC/DC	1 1	A3PLE1-6LLL-91	1SQA010832R0001	1
Amber	6-24 V AC/DC	1 0	A3PLE1-6LLM-10	1SQA009265R0001	1
	6-24 V AC/DC	1 1	A3PLE1-6LLM-91	1SQA010817R0001	1
Red	6-24 V AC/DC	1 0	A3PLE1-6LLR-10	1SQA009267R0001	1
	6-24 V AC/DC	1 1	A3PLE1-6LLR-91	1SQA010818R0001	1
White	6-24 V AC/DC	1 1	A3PLE1-6LLW-91	1SQA010819R0001	1
Clear	24-240V AC/DC	1 1	A3PLE1-6LUC-91	1SQA010831R0001	1
Green	24-240V AC/DC	1 1	A3PLE1-6LUG-91	1SQA010826R0001	1
Blue	24-240V AC/DC	1 1	A3PLE1-6LUL-91	1SQA010830R0001	1
Amber	24-240V AC/DC	1 1	A3PLE1-6LUM-91	1SQA010827R0001	1
Red	24-240V AC/DC	1 1	A3PLE1-6LUR-91	1SQA010828R0001	1
White	24-240V AC/DC	1 1	A3PLE1-6LUW-91	1SQA010829R0001	1

Note:
For push to test instructions follow this link: <https://search.abb.com/library/Download.aspx?DocumentID=1SQC-910005M0201&LanguageCode=en&DocumentPartId=&Action=Launch>



Illuminated pushbutton flush lens
Illuminated pushbutton extended lens
Illuminated push to test

Dimensions inches, [mm]

30 mm heavy duty oil-tight range

Non-illuminated mushroom pushbuttons–44 mm



A3PB41-600B-10



A3PB41-600G-10

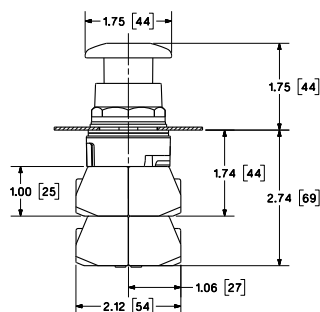


A3PB41-600R-10

Description

Each reference includes the satin chrome metal body and nut together with the holder.

Color	Voltage	Contacts	Catalog number	Order code	Pkg qty
					
Momentary					
● Black	–	0 0	A3PB41-600B-00	1SQA009121R0001	1
	–	0 1	A3PB41-600B-01	1SQA009122R0001	1
	–	1 0	A3PB41-600B-10	1SQA009123R0001	1
	–	1 1	A3PB41-600B-91	1SQA010745R0001	1
● Green	–	0 0	A3PB41-600G-00	1SQA009125R0001	1
	–	0 1	A3PB41-600G-01	1SQA009126R0001	1
	–	1 0	A3PB41-600G-10	1SQA009127R0001	1
	–	1 1	A3PB41-600G-91	1SQA010746R0001	1
● Red	–	0 0	A3PB41-600R-00	1SQA009129R0001	1
	–	0 1	A3PB41-600R-01	1SQA009130R0001	1
	–	1 0	A3PB41-600R-10	1SQA009131R0001	1
	–	1 1	A3PB41-600R-91	1SQA010747R0001	1
● Yellow	–	0 0	A3PB41-600Y-00	1SQA009133R0001	1
	–	0 1	A3PB41-600Y-01	1SQA009134R0001	1
	–	1 0	A3PB41-600Y-10	1SQA009135R0001	1
	–	1 1	A3PB41-600Y-91	1SQA010748R0001	1
Maintained push-pull					
● Black	–	0 1	A3PP42-600B-01	1SQA009270R0001	1
	–	1 1	A3PP42-600B-91	1SQA010842R0001	1
● Green	–	0 1	A3PP42-600G-01	1SQA009272R0001	1
● Red	–	0 0	A3PP42-600R-00	1SQA009273R0001	1
	–	0 1	A3PP42-600R-01	1SQA009274R0001	1
	–	1 1	A3PP42-600R-91	1SQA010843R0001	1
	–	1 1	A3PP43-600R-1N	1SQA010844R0001	1
		Extra late break			
● Yellow	–	0 1	A3PP42-600Y-01	1SQA009276R0001	1
Maintained push – momentary pull					
● Red	–	1 1	A3PP44-600R-1N	1SQA010845R0001	1
		Extra late break			
Maintained twist – release					
● Red	–	0 0	A3PT4R-600R-00	1SQA009333R0001	1
	–	0 1	A3PT4R-600R-01	1SQA009334R0001	1
	–	1 0	A3PT4R-600R-10	1SQA009335R0001	1
	–	1 1	A3PT4R-600R-91	1SQA010881R0001	1

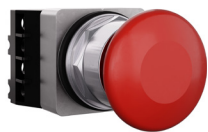


Momentary pushbutton small plastic mushroom head
Dimensions inches, [mm]

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30 mm heavy duty oil-tight range

Non-illuminated mushroom pushbuttons–44 mm metal

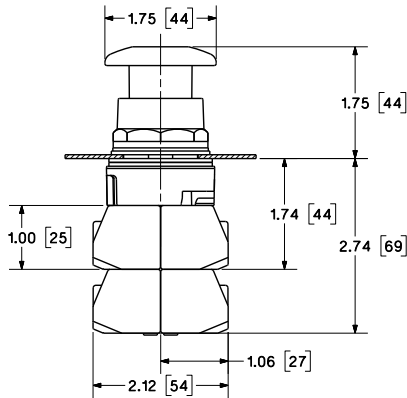


A3PBM1-600R-01

Description

Each reference includes the satin chrome metal body and nut together with the holder.

Color	Voltage	Contacts	Catalog number	Order code	Pkg qty
Maintained push-pull – full voltage					
● Red	6-8 V AC/DC	0 1	A3PPM2-6LBR-01	1SQA009320R0001	1
Momentary					
● Red	–	1 0	A3PBM1-600R-01	1SQA010177R0001	1
Maintained push-pull					
No Cap	–	0 0	A3PPM2-600N-00	1SQA009308R0001	1
● Red	–	0 0	A3PPM2-600R-00	1SQA009309R0001	1
	–	0 1	A3PPM2-600R-01	1SQA009310R0001	1
	–	1 0	A3PPM2-600R-10	1SQA009311R0001	1
	–	1 1	A3PPM2-600R-91	1SQA010847R0001	1
Maintained push – momentary pull					
● Red	–	1 1	A3PPM4-600R-1N	1SQA010849R0001	1
Extra late break					



Momentary pushbutton small plastic mushroom head
Dimensions inches, [mm]

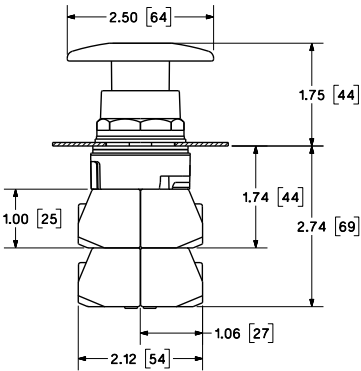
30 mm heavy duty oil-tight range

Non-illuminated mushroom pushbuttons–60 mm

Description

Each reference includes the satin chrome metal body and nut together with the holder.

Color	Voltage	Contacts	Catalog number	Order code	Pkg qty
Momentary					
● Black	–	0 0	A3PB61-600B-00	1SQA009137R0001	1
	–	0 1	A3PB61-600B-01	1SQA009138R0001	1
	–	1 0	A3PB61-600B-10	1SQA009139R0001	1
	–	1 1	A3PB61-600B-91	1SQA010749R0001	1
● Green	–	0 0	A3PB61-600G-00	1SQA009141R0001	1
	–	0 1	A3PB61-600G-01	1SQA009142R0001	1
	–	1 0	A3PB61-600G-10	1SQA009143R0001	1
	–	1 1	A3PB61-600G-91	1SQA010750R0001	1
● Red	–	0 0	A3PB61-600R-00	1SQA009145R0001	1
	–	0 1	A3PB61-600R-01	1SQA009146R0001	1
	–	1 0	A3PB61-600R-10	1SQA009147R0001	1
	–	1 1	A3PB61-600R-91	1SQA010751R0001	1
● Yellow	–	0 0	A3PB61-600Y-00	1SQA009149R0001	1
	–	0 1	A3PB61-600Y-01	1SQA009150R0001	1
	–	1 1	A3PB61-600Y-91	1SQA010752R0001	1
Maintained push-pull					
● Red	–	0 0	A3PP62-600R-00	1SQA009304R0001	1
	–	0 1	A3PP62-600R-01	1SQA009305R0001	1
	–	1 1	A3PP62-600R-91	1SQA010846R0001	1



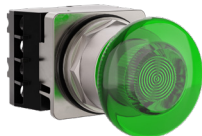
Momentary pushbutton large plastic mushroom head
Dimensions inches, [mm]

30 mm heavy duty oil-tight range

Illuminated mushroom pushbuttons–44 mm



A3PL41-6L2R-11

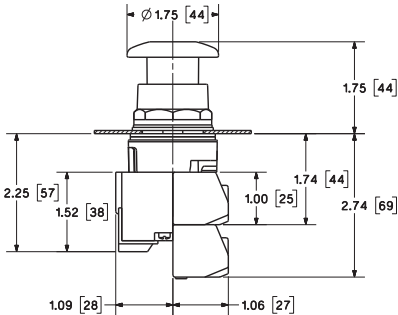


A3PL41-6LBG-11

Description

Each reference includes the satin chrome metal body and nut together with the holder.

Color	Voltage	Contacts	Catalog number	Order code	Pkg qty
Momentary – full voltage					
Green	24 V AC/DC	1 1	A3PL41-6L2G-91	1SQA010764R0001	1
Amber	24 V AC/DC	1 1	A3PL41-6L2M-91	1SQA010765R0001	1
Red	24 V AC/DC	1 1	A3PL41-6L2R-91	1SQA010766R0001	1
Green	120 V AC/DC	1 1	A3PL41-6L4G-91	1SQA010767R0001	1
Amber	120 V AC/DC	1 1	A3PL41-6L4M-91	1SQA010768R0001	1
Red	120 V AC/DC	1 1	A3PL41-6L4R-91	1SQA010769R0001	1
Momentary – transformer					
Green	120 V AC	1 1	A3PL41-6L5G-91	1SQA010770R0001	1
Red	120 V AC	0 0	A3PL41-6L5R-00	1SQA009202R0001	1
	120 V AC	1 1	A3PL41-6L5R-91	1SQA010771R0001	1
	240 V AC	1 1	A3PL41-6L6R-91	1SQA010772R0001	1
	600 V AC	1 1	A3PL41-6L9R-91	1SQA010773R0001	1
Momentary – full voltage					
Green	6-8 V AC/DC	1 1	A3PL41-6LBG-91	1SQA010774R0001	1
Amber	6-8 V AC/DC	1 1	A3PL41-6LBM-91	1SQA010775R0001	1
Red	6-8 V AC/DC	1 0	A3PL41-6LBR-10	1SQA009208R0001	1
Momentary – integrated LED module					
Red	6-24 V AC/DC	1 1	A3PL41-6LLR-91	1SQA010776R0001	1
Maintained push-pull – full voltage					
Green	24 V AC/DC	1 1	A3PP42-6L2G-91	1SQA010850R0001	1
Amber	24 V AC/DC	1 1	A3PP42-6L2M-91	1SQA010851R0001	1
Red	24 V AC/DC	0 1	A3PP42-6L2R-01	1SQA009279R0001	1
	24 V AC/DC	1 0	A3PP42-6L2R-10	1SQA009280R0001	1
	24 V AC/DC	1 1	A3PP42-6L2R-91	1SQA010852R0001	1
Green	120 V AC/DC	1 1	A3PP42-6L4G-91	1SQA010853R0001	1
Amber	120 V AC/DC	1 1	A3PP42-6L4M-91	1SQA010854R0001	1
Red	120 V AC/DC	1 0	A3PP42-6L4R-10	1SQA009284R0001	1
	120 V AC/DC	1 1	A3PP42-6L4R-91	1SQA010855R0001	1



Illuminated momentary pushbutton small plastic mushroom head

Dimensions inches, [mm]

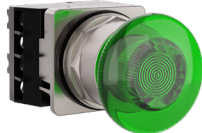
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30 mm heavy duty oil-tight range

Illuminated mushroom pushbuttons–44 mm



A3PP42-6L5R-91

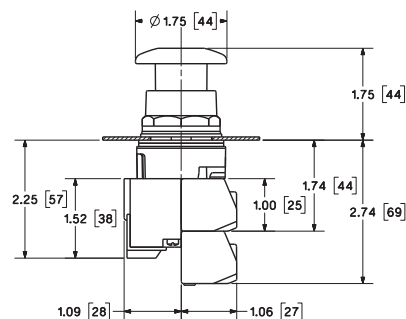


A3PP42-6LLG-11

Description

Each reference includes the satin chrome metal body and nut together with the holder.

Color	Voltage	Contacts	Catalog number	Order code	Pkg qty
Maintained push-pull – transformer					
Green	120 V AC	1 1	A3PP42-6L5G-91	1SQA010856R0001	1
Amber	120 V AC	1 1	A3PP42-6L5M-91	1SQA010857R0001	1
Red	120 V AC	0 0	A3PP42-6L5R-00	1SQA009288R0001	1
	120 V AC	0 1	A3PP42-6L5R-01	1SQA009289R0001	1
	120 V AC	1 1	A3PP42-6L5R-91	1SQA010858R0001	1
Green	480 V AC	1 1	A3PP42-6L8G-91	1SQA010859R0001	1
Red	600 V AC	1 1	A3PP42-6L9R-91	1SQA010860R0001	1
Maintained push-pull – integrated LED module					
Green	6-24 V AC/DC	1 1	A3PP42-6LLG-91	1SQA010861R0001	1
Red	6-24 V AC/DC	1 1	A3PP42-6LLR-91	1SQA010862R0001	1
Maintained push-pull – full voltage					
Green	120 V AC/DC	1 1 Extra late break	A3PP43-6L4G-1N	1SQA010863R0001	1
Red	120 V AC/DC	1 1 Extra late break	A3PP43-6L4R-1N	1SQA010864R0001	1
Maintained push-pull – transformer					
Red	120 V AC	1 1 Extra late break	A3PP43-6L5R-1N	1SQA010865R0001	1
Green	480 V AC	1 1 Extra late break	A3PP43-6L8G-1N	1SQA010866R0001	1
Maintained push-momentary pull – full voltage					
Red	24 V AC/DC	1 1 Extra late break	A3PP44-6L2R-1N	1SQA010867R0001	1
	120 V AC/DC	1 1 Extra late break	A3PP44-6L4R-1N	1SQA010868R0001	1
Maintained push-momentary pull – transformer					
Red	120 V AC	1 1 Extra late break	A3PP44-6L5R-1N	1SQA010869R0001	1



Illuminated momentary pushbutton small plastic mushroom head

Dimensions inches, [mm]

30 mm heavy duty oil-tight range

Illuminated mushroom pushbuttons–44 mm metal



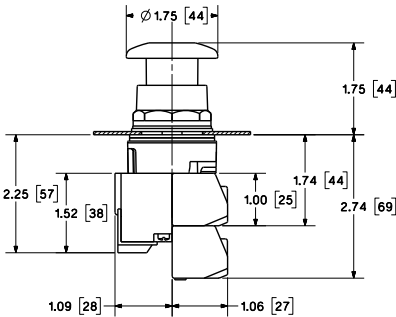
A3XLMLR*

* A3XLMLR is only the accessory head. All illuminated A3PPM... devices will come with this head installed.

Description

Each reference includes the satin chrome metal body and nut together with the holder.

Color	Voltage	Contacts	Catalog number	Order code	Pkg qty
					
Momentary					
● Red	–	1 1 Extra late break	A3PPM3-600R-1N	1SQA010848R0001	1
Momentary – full voltage					
● Red	24 V AC/DC	1 1 Extra late break	A3PPM3-6L2R-1N	1SQA010875R0001	1
● Green	120 V AC/DC	1 1 Extra late break	A3PPM3-6L4G-1N	1SQA010876R0001	1
● Amber	120 V AC/DC	1 1 Extra late break	A3PPM3-6L4M-1N	1SQA010877R0001	1
● Red	120 V AC/DC	0 0	A3PPM3-6L4R-00	1SQA009325R0001	1
	120 V AC/DC	1 1 Extra late break	A3PPM3-6L4R-1N	1SQA010878R0001	1
Maintained push-pull – full voltage					
● Red	24 V AC/DC	1 1	A3PPM2-6L2R-91	1SQA010871R0001	1
● Green	120 V AC/DC	0 1	A3PPM2-6L4G-01	1SQA009314R0001	1
	120 V AC/DC	1 1	A3PPM2-6L4G-91	1SQA010872R0001	1
● Red	120 V AC/DC	0 0	A3PPM2-6L4R-00	1SQA009316R0001	1
	120 V AC/DC	0 1	A3PPM2-6L4R-01	1SQA009317R0001	1
	120 V AC/DC	1 1	A3PPM2-6L4R-91	1SQA010873R0001	1
○ White	120 V AC/DC	1 1	A3PPM2-6L4W-91	1SQA010874R0001	1
Maintained push-momentary pull – full voltage					
● Red	24 V AC/DC	0 0	A3PPM4-6L2R-00	1SQA009328R0001	1
	24 V AC/DC	1 1 Extra late break	A3PPM4-6L2R-1N	1SQA010879R0001	1
	120 V AC/DC	1 1 Extra late break	A3PPM4-6L4R-1N	1SQA010880R0001	1



Illuminated momentary pushbutton small plastic mushroom head

Dimensions inches, [mm]

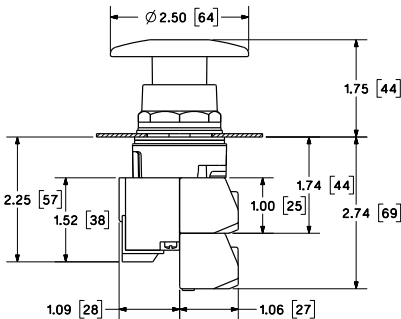
30 mm heavy duty oil-tight range

Illuminated mushroom pushbuttons–60 mm

Description

Each reference includes the satin chrome metal body and nut together with the holder.

Color	Voltage	Contacts	Catalog number	Order code	Pkg qty
Momentary – full voltage					
● Green	24 V AC/DC	1 1	A3PL61-6L2G-91	1SQA010777R0001	1
● Red	24 V AC/DC	1 1	A3PL61-6L2R-91	1SQA010778R0001	1
● Green	120 V AC/DC	1 1	A3PL61-6L4G-91	1SQA010779R0001	1
● Red	120 V AC/DC	1 1	A3PL61-6L4R-91	1SQA010780R0001	1
Momentary – transformer					
● Red	120 V AC	1 1	A3PL61-6L5R-91	1SQA010781R0001	1
Momentary – integrated LED module					
● Amber	6-24 V AC/DC	1 1	A3PL61-6LLM-91	1SQA010782R0001	1
● Red	6-24 V AC/DC	1 1	A3PL61-6LLR-91	1SQA010783R0001	1
Maintained push-pull – full voltage					
● Red	24 V AC/DC	1 1	A3PP62-6L2R-91	1SQA010870R0001	1



Illuminated momentary pushbutton large plastic mushroom head
Dimensions inches, [mm]

30 mm heavy duty oil-tight range

Non-illuminated pushbuttons–no cap

Description

Each reference includes the satin chrome metal body and nut together with the holder.

Color	Voltage	Contacts	Catalog number	Order code	Pkg qty
					
Momentary					
No cap	–	0 0	A3PBN1-600N-00	1SQA010178R0001	1
Maintained push-pull					
No cap	–	0 0	A3PPN2-600N-00	1SQA010200R0001	1
Maintained twist-release					
No cap	–	0 0	A3PT4R-600N-00	1SQA009332R0001	1

30 mm heavy duty oil-tight range

Pilot lights–LED bulb



A3L4AA-6L4G



A3L4AA-6L4M



A3L4AA-6L4R



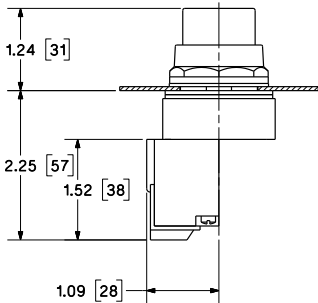
A3L4AA-6L4W

Description

Each reference includes the satin chrome metal body and nut together with the holder.

Color	Voltage	Catalog number	Order code	Pkg qty
Full voltage				
○ Clear	24 V AC/DC	A3L4AA-6L2C	1SQA009077R0001	1
	120 V AC/DC	A3L4AA-6L4C	1SQA009083R0001	1
	24-240 V AC/DC	A3L4AA-6LUC	1SQA010465R0001	1
● Green	24 V AC/DC	A3L4AA-6L2G	1SQA009078R0001	1
	120 V AC/DC	A3L4AA-6L4G	1SQA009084R0001	1
	6-8 V AC/DC	A3L4AA-6LBG	1SQA009112R0001	1
	24-240 V AC/DC	A3L4AA-6LUG	1SQA010460R0001	1
● Blue	24 V AC/DC	A3L4AA-6L2L	1SQA009079R0001	1
	120 V AC/DC	A3L4AA-6L4L	1SQA009085R0001	1
	24-240 V AC/DC	A3L4AA-6LUL	1SQA010464R0001	1
● Amber	24 V AC/DC	A3L4AA-6L2M	1SQA009080R0001	1
	120 V AC/DC	A3L4AA-6L4M	1SQA009086R0001	1
	6-8 V AC/DC	A3L4AA-6LBM	1SQA009113R0001	1
	24-240 V AC/DC	A3L4AA-6LUM	1SQA010461R0001	1
No Lens	120 V AC/DC	A3L4AA-6N4N	1SQA009120R0001	1
● Red	24 V AC/DC	A3L4AA-6L2R	1SQA009081R0001	1
	120 V AC/DC	A3L4AA-6L4R	1SQA009087R0001	1
	6-8 V AC/DC	A3L4AA-6LBR	1SQA009114R0001	1
	24-240 V AC/DC	A3L4AA-6LUR	1SQA010462R0001	1
○ White	24 V AC/DC	A3L4AA-6L2W	1SQA009082R0001	1
	120 V AC/DC	A3L4AA-6L4W	1SQA009088R0001	1
	6-8 V AC/DC	A3L4AA-6LBW	1SQA009115R0001	1
	24-240 V AC/DC	A3L4AA-6LUW	1SQA010463R0001	1

Continued on next page



Indicator light plastic lens

Dimensions inches, [mm]

30 mm heavy duty oil-tight range

Pilot lights–LED bulb



A3L4AA-6L5G



A3L4AA-6L5M



A3L4AA-6L5R

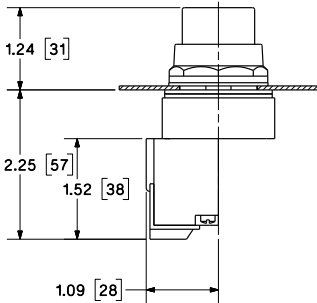


A3L4AA-6L5W

Description

Each reference includes the satin chrome metal body and nut together with the holder.

Color	Voltage	Catalog number	Order code	Pkg qty
Transformer				
○ Clear	120 V AC	A3L4AA-6L5C	1SQA009089R0001	1
	240 V AC	A3L4AA-6L6C	1SQA009095R0001	1
	480 V AC	A3L4AA-6L8C	1SQA009103R0001	1
	600 V AC	A3L4AA-6L9C	1SQA010492R0001	1
● Green	120 V AC	A3L4AA-6L5G	1SQA009090R0001	1
	240 V AC	A3L4AA-6L6G	1SQA009096R0001	1
	277 V SC	A3L4AA-6L7G	1SQA009101R0001	1
	480 V AC	A3L4AA-6L8G	1SQA009104R0001	1
	600 V AC	A3L4AA-6L9G	1SQA009109R0001	1
● Blue	120 V AC	A3L4AA-6L5L	1SQA009091R0001	1
	240 V AC	A3L4AA-6L6L	1SQA009097R0001	1
	480 V AC	A3L4AA-6L8L	1SQA009105R0001	1
	600 V AC	A3L4AA-6L9L	1SQA010494R0001	1
● Amber	120 V AC	A3L4AA-6L5M	1SQA009092R0001	1
	240 V AC	A3L4AA-6L6M	1SQA009098R0001	1
	480 V AC	A3L4AA-6L8M	1SQA009106R0001	1
	600 V AC	A3L4AA-6L9M	1SQA010493R0001	1
● Red	120 V AC	A3L4AA-6L5R	1SQA009093R0001	1
	240 V AC	A3L4AA-6L6R	1SQA009099R0001	1
	277 V SC	A3L4AA-6L7R	1SQA009102R0001	1
	480 V AC	A3L4AA-6L8R	1SQA009107R0001	1
	600 V AC	A3L4AA-6L9R	1SQA009110R0001	1
○ White	120 V AC	A3L4AA-6L5W	1SQA009094R0001	1
	240 V AC	A3L4AA-6L6W	1SQA009100R0001	1
	480 V AC	A3L4AA-6L8W	1SQA009108R0001	1
	600 V AC	A3L4AA-6L9W	1SQA009111R0001	1
Integrated LED module				
● Green	6-24 V AC/DC	A3L4AA-6LLG	1SQA009116R0001	1
● Amber	6-24 V AC/DC	A3L4AA-6LLM	1SQA009117R0001	1
● Red	6-24 V AC/DC	A3L4AA-6LLR	1SQA009118R0001	1
○ White	6-24 V AC/DC	A3L4AA-6LLW	1SQA009119R0001	1
No lamp block				
No lens	No lamp block	A3L4AA-6N0N	1SQA010199R0001	1



Indicator light plastic lens

Dimensions inches, [mm]

30 mm heavy duty oil-tight range

Non-illuminated selector switches

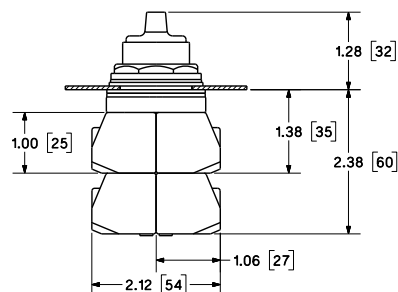


A3SSAA-6AAB-91

Description

Each reference includes the satin chrome metal body and nut together with the holder.

Operating principle	Color	Cam function	Voltage	Contacts	Catalog number	Order code	Pkg qty
							
2-position, short handle							
	● Green	Operator only	–	0 0	A3SSAA-6AAG-00	1SQA010204R0001	1
	● Red	Operator only	–	0 0	A3SSAA-6AAR-00	1SQA010205R0001	1
	○ White	A	–	1 1	A3SSAA-6AAB-91	1SQA010926R0001	1
		A	–	1 0	A3SSAA-6AAB-10	1SQA010925R0001	1
		A	–	0 1	A3SSAA-6AAB-01	1SQA010924R0001	1
		A	–	0 0	A3SSAA-6AAB-00	1SQA010161R0001	1
		A	–	2 0	A3SSAA-6AAB-20	1SQA010984R0001	1
		A	–	2 1	A3SSAA-6AAB-21	1SQA010985R0001	1
2-position, long handle							
	○ White	A	–	1 1	A3SLAA-6AAB-91	1SQA010903R0001	1
		A	–	0 0	A3SLAA-6AAB-00	1SQA010202R0001	1
2-position, short handle							
	○ White	A	–	1 1	A3SSAC-6AAB-91	1SQA010927R0001	1
		A	–	0 0	A3SSAC-6AAB-00	1SQA010203R0001	1
2-position, long handle							
	○ White	A	–	1 1	A3SLAC-6AAB-91	1SQA010904R0001	1
3-position, short handle							
	○ White	B	–	2 2	A3SSBA-6AAB-92	1SQA011107R0001	1
		B	–	1 0	A3SSBA-6AAB-10	1SQA010928R0001	1
		B	–	2 0	A3SSBA-6AAB-20	1SQA011106R0001	1
		B	–	0 0	A3SSBA-6AAB-00	1SQA010172R0001	1
		B	–	1 1	A3SSBA-6AAB-91	1SQA010929R0001	1
		B	–	2 1	A3SSBA-6AAB-21	1SQA010993R0001	1
		C	–	1 1	A3SSCA-6AAB-91	1SQA010935R0001	1
		C	–	0 0	A3SSCA-6AAB-00	1SQA010162R0001	1
		C	–	1 0	A3SSCA-6AAB-10	1SQA010934R0001	1
		C	–	1 2	A3SSCA-6AAB-12	1SQA010989R0001	1
		D	–	1 1	A3SSDA-6AAB-91	1SQA010940R0001	1
		D	–	0 0	A3SSDA-6AAB-00	1SQA010209R0001	1



Selector switch non-illuminated

Dimensions inches, [mm]

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30 mm heavy duty oil-tight range

Non-illuminated selector switches



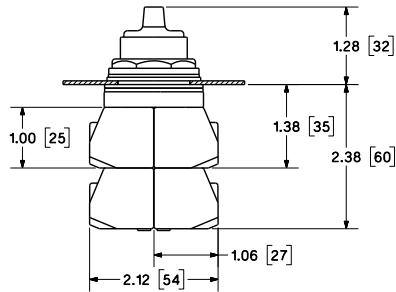
A3SSBB-6AAB-92

Description

Each reference includes the satin chrome metal body and nut together with the holder.

Operating principle	Color	Cam function	Voltage	Contacts	Catalog number	Order code	Pkg qty
3-position, short handle							
	○ White	E	–	1 1	A3SSEA-6AAB-91	1SQA010944R0001	1
		E	–	0 0	A3SSEA-6AAB-00	1SQA010175R0001	1
		G	–	0 0	A3SSGA-6AAB-00	1SQA010165R0001	1
		G	–	1 2	A3SSGA-6AAB-12	1SQA010991R0001	1
		G	–	1 1	A3SSGA-6AAB-91	1SQA010947R0001	1
	○ White	B	–	0 0	A3SSBB-6AAB-00	1SQA010206R0001	1
		B	–	2 2	A3SSBB-6AAB-92	1SQA011108R0001	1
		B	–	1 1	A3SSBB-6AAB-91	1SQA010930R0001	1
		C	–	0 0	A3SSCB-6AAB-00	1SQA010163R0001	1
		C	–	1 1	A3SSCB-6AAB-91	1SQA010936R0001	1
		D	–	0 0	A3SSDB-6AAB-00	1SQA010440R0001	1
		D	–	1 1	A3SSDB-6AAB-91	1SQA010941R0001	1
		E	–	0 0	A3SSEB-6AAB-00	1SQA009480R0001	1
		G	–	0 0	A3SSGB-6AAB-00	1SQA010441R0001	1
		G	–	1 1	A3SSGB-6AAB-91	1SQA010948R0001	1
		G	–	2 2	A3SSGB-6AAB-92	1SQA011117R0001	1
	○ White	B	–	0 0	A3SSBC-6AAB-00	1SQA010207R0001	1
		B	–	1 1	A3SSBC-6AAB-91	1SQA010931R0001	1
		B	–	2 2	A3SSBC-6AAB-92	1SQA011109R0001	1
		C	–	0 0	A3SSCC-6AAB-00	1SQA010208R0001	1
		C	–	1 1	A3SSCC-6AAB-91	1SQA010937R0001	1
		C	–	2 2	A3SSCC-6AAB-92	1SQA011111R0001	1
		D	–	0 0	A3SSDC-6AAB-00	1SQA009474R0001	1
		D	–	1 1	A3SSDC-6AAB-91	1SQA010942R0001	1
		D	–	2 2	A3SSDC-6AAB-92	1SQA011113R0001	1
		E	–	0 0	A3SSEC-6AAB-00	1SQA009481R0001	1
		E	–	1 1	A3SSEC-6AAB-91	1SQA010945R0001	1
		G	–	0 0	A3SSGC-6AAB-00	1SQA009488R0001	1
		G	–	1 1	A3SSGC-6AAB-91	1SQA010949R0001	1
		G	–	2 2	A3SSGC-6AAB-92	1SQA011118R0001	1

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Selector switch non-illuminated

Dimensions inches, [mm]

30 mm heavy duty oil-tight range

Non-illuminated selector switches



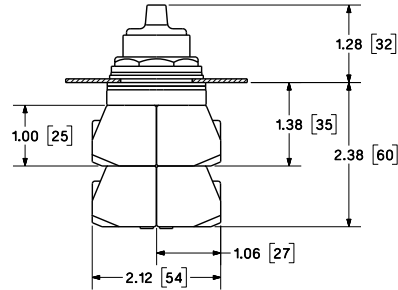
A3SSBD-6AAB-91

Description

Each reference includes the satin chrome metal body and nut together with the holder.

Operating principle	Color	Cam function	Voltage	Contacts	Catalog number	Order code	Pkg qty
3-position, short handle							
	○ White	B	–	0 0	A3SSBD-6AAB-00	1SQA010173R0001	1
		B	–	1 1	A3SSBD-6AAB-91	1SQA010932R0001	1
		B	–	2 2	A3SSBD-6AAB-92	1SQA010933R0001	1
		C	–	0 0	A3SSCD-6AAB-00	1SQA010164R0001	1
		C	–	1 0	A3SSCD-6AAB-10	1SQA010938R0001	1
		C	–	1 1	A3SSCD-6AAB-91	1SQA010939R0001	1
		D	–	0 0	A3SSDD-6AAB-00	1SQA009476R0001	1
		D	–	1 1	A3SSDD-6AAB-91	1SQA010943R0001	1
		E	–	0 0	A3SSED-6AAB-00	1SQA009483R0001	1
		E	–	1 1	A3SSED-6AAB-91	1SQA010946R0001	1
		G	–	0 0	A3SSGD-6AAB-00	1SQA009490R0001	1
		G	–	1 1	A3SSGD-6AAB-91	1SQA010950R0001	1
		G	–	2 2	A3SSGD-6AAB-92	1SQA011119R0001	1
4-position, short handle							
	○ White	H	–	0 0	A3SSHA-6AAB-00	1SQA010174R0001	1
		H	–	2 2	A3SSHA-6AAB-92	1SQA010951R0001	1
2-position, long handle							
	○ White	A	–	0 0	A3SLAC-6AAB-00	1SQA010442R0001	1

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Selector switch non-illuminated

Dimensions inches, [mm]

30 mm heavy duty oil-tight range
Non-illuminated selector switches

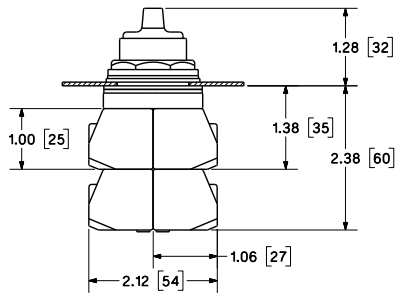


A3SLBA-6AAB-91

Description

Each reference includes the satin chrome metal body and nut together with the holder.

Operating principle	Color	Cam function	Voltage	Contacts	Catalog number	Order code	Pkg qty
							
3-position, long handle							
	○ White	B	–	0 0	A3SLBA-6AAB-00	1SQA010443R0001	1
		B	–	1 1	A3SLBA-6AAB-91	1SQA010905R0001	1
		B	–	2 2	A3SLBA-6AAB-92	1SQA011095R0001	1
		C	–	0 0	A3SLCA-6AAB-00	1SQA009393R0001	1
		C	–	1 1	A3SLCA-6AAB-91	1SQA010909R0001	1
		D	–	0 0	A3SLDA-6AAB-00	1SQA010446R0001	1
		D	–	1 1	A3SLDA-6AAB-91	1SQA010913R0001	1
		E	–	0 0	A3SLEA-6AAB-00	1SQA010449R0001	1
		E	–	1 1	A3SLEA-6AAB-91	1SQA010916R0001	1
		E	–	2 2	A3SLEA-6AAB-92	1SQA011100R0001	1
		G	–	0 0	A3SLGA-6AAB-00	1SQA009406R0001	1
		G	–	1 1	A3SLGA-6AAB-91	1SQA010919R0001	1
		G	–	2 2	A3SLGA-6AAB-92	1SQA011102R0001	1
	○ White	B	–	0 0	A3SLBB-6AAB-00	1SQA010444R0001	1
		B	–	1 1	A3SLBB-6AAB-91	1SQA010906R0001	1
		B	–	2 2	A3SLBB-6AAB-92	1SQA011096R0001	1
		C	–	0 0	A3SLCB-6AAB-00	1SQA009395R0001	1
		C	–	1 1	A3SLCB-6AAB-91	1SQA010910R0001	1
		G	–	0 0	A3SLGB-6AAB-00	1SQA010452R0001	1
		G	–	1 1	A3SLGB-6AAB-91	1SQA010920R0001	1
		G	–	2 2	A3SLGB-6AAB-92	1SQA011103R0001	1
	○ White	B	–	0 0	A3SLBC-6AAB-00	1SQA009389R0001	1
		B	–	1 1	A3SLBC-6AAB-91	1SQA010907R0001	1
		B	–	2 2	A3SLBC-6AAB-92	1SQA011097R0001	1
		C	–	0 0	A3SLCC-6AAB-00	1SQA010445R0001	1
		C	–	1 1	A3SLCC-6AAB-91	1SQA010911R0001	1
		D	–	0 0	A3SLDC-6AAB-00	1SQA010447R0001	1
		D	–	1 1	A3SLDC-6AAB-91	1SQA010914R0001	1
		E	–	0 0	A3SLEC-6AAB-00	1SQA010450R0001	1
		E	–	1 1	A3SLEC-6AAB-91	1SQA010917R0001	1
		G	–	0 0	A3SLGC-6AAB-00	1SQA010453R0001	1
		G	–	1 1	A3SLGC-6AAB-91	1SQA010921R0001	1
		G	–	2 2	A3SLGC-6AAB-92	1SQA011104R0001	1



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Selector switch non-illuminated
Dimensions inches, [mm]

30 mm heavy duty oil-tight range

Non-illuminated selector switches



A3SLBD-6AAB-91

Description

Each reference includes the satin chrome metal body and nut together with the holder.

3-position, long handle

	○ White	B	–	0 0	A3SLBD-6AAB-00	1SQA009391R0001	1
		B	–	1 1	A3SLBD-6AAB-91	1SQA010908R0001	1
		B	–	2 2	A3SLBD-6AAB-92	1SQA011098R0001	1
		C	–	0 0	A3SLCD-6AAB-00	1SQA009398R0001	1
		C	–	1 1	A3SLCD-6AAB-91	1SQA010912R0001	1
		D	–	0 0	A3SLDD-6AAB-00	1SQA010448R0001	1
		D	–	1 1	A3SLDD-6AAB-91	1SQA010915R0001	1
		D	–	2 2	A3SLDD-6AAB-92	1SQA011099R0001	1
		E	–	0 0	A3SLED-6AAB-00	1SQA010451R0001	1
		E	–	1 1	A3SLED-6AAB-91	1SQA010918R0001	1
		E	–	2 2	A3SLED-6AAB-92	1SQA011101R0001	1
		G	–	0 0	A3SLGD-6AAB-00	1SQA009410R0001	1
		G	–	1 1	A3SLGD-6AAB-91	1SQA010922R0001	1
		G	–	2 2	A3SLGD-6AAB-92	1SQA011105R0001	1

4-position, long handle

	○ White	H	–	0 0	A3SLHA-6AAB-00	1SQA010454R0001	1
		H	–	2 2	A3SLHA-6AAB-92	1SQA010923R0001	1

30 mm heavy duty oil-tight range

Illuminated selector switches



A3SSAA-6L2G-91



A3SSAA-6L2R-91

Description

Each reference includes the satin chrome metal body and nut together with the holder.

Operating principle	Color	Cam function	Voltage	Contacts	Catalog number	Order code	Pkg qty
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2-position, short handle

	● Green	A	FV 24 V	0 0	A3SSAA-6L2G-00	1SQA009417R0001	1
		A	FV 24 V	1 0	A3SSAA-6L2G-10	1SQA010882R0001	1
		A	FV 24 V	1 1	A3SSAA-6L2G-91	1SQA010883R0001	1
	● Blue	A	FV 24 V	0 0	A3SSAA-6L2L-00	1SQA010421R0001	1
		A	FV 24 V	1 0	A3SSAA-6L2L-10	1SQA010884R0001	1
		A	FV 24 V	1 1	A3SSAA-6L2L-91	1SQA010885R0001	1
	● Red	A	FV 24 V	0 0	A3SSAA-6L2R-00	1SQA009422R0001	1
		A	FV 24 V	1 1	A3SSAA-6L2R-91	1SQA010886R0001	1
	● Amber	A	FV 120V	0 0	A3SSAA-6L4M-00	1SQA010425R0001	1
		A	FV 120 V	1 1	A3SSAA-6L4M-91	1SQA010889R0001	1
	● Blue	A	FV 120 V	0 0	A3SSAA-6L4L-00	1SQA010424R0001	1
		A	FV 120 V	1 1	A3SSAA-6L4L-91	1SQA010888R0001	1
	● Green	A	FV 120 V	0 0	A3SSAA-6L4G-00	1SQA009424R0001	1
		A	FV 120 V	1 1	A3SSAA-6L4G-91	1SQA010887R0001	1
	● Red	A	FV 120 V	1 1	A3SSAA-6L4R-91	1SQA010890R0001	1
		A	FV 120 V	0 0	A3SSAA-6L4R-00	1SQA009428R0001	1
	● Amber	A	Trans. 120 V	0 0	A3SSAA-6L5M-00	1SQA010428R0001	1
		A	Trans. 120 V	1 1	A3SSAA-6L5M-91	1SQA010892R0001	1
	● Green	A	Trans. 120 V	1 1	A3SSAA-6L5G-91	1SQA010891R0001	1
		A	Trans. 240 V	0 0	A3SSAA-6L6G-00	1SQA010430R0001	1
A		Trans. 240 V	1 1	A3SSAA-6L6G-91	1SQA010894R0001	1	
A		Trans. 120 V	0 0	A3SSAA-6L5G-00	1SQA009430R0001	1	
● Red	A	Trans. 120 V	0 0	A3SSAA-6L5R-00	1SQA009433R0001	1	
	A	Trans. 120 V	1 1	A3SSAA-6L5R-91	1SQA010893R0001	1	

3-position, short handle

	● Green	B	FV 24 V	1 1	A3SSBA-6L2G-91	1SQA010999R0001	1
		B	FV 24 V	0 0	A3SSBA-6L2G-00	1SQA009441R0001	1
● Amber	● Amber	C	FV 24 V	0 0	A3SSCA-6L2M-00	1SQA010434R0001	1
		C	FV 24 V	1 1	A3SSCA-6L2M-91	1SQA010897R0001	1
● Green	● Green	C	FV 24 V	1 1	A3SSCA-6L2G-91	1SQA010896R0001	1
		C	FV 24 V	0 0	A3SSCA-6L2G-00	1SQA009453R0001	1
● Red	● Red	B	FV 24 V	0 0	A3SSBA-6L2R-00	1SQA010432R0001	1
		B	FV 24 V	1 1	A3SSBA-6L2R-91	1SQA010895R0001	1
● Green	● Green	C	FV 120 V	1 1	A3SSCA-6L4G-91	1SQA010898R0001	1
		C	FV 120 V	0 0	A3SSCA-6L4L-00	1SQA010436R0001	1
● Blue	● Blue	C	FV 120 V	0 0	A3SSCA-6L4L-00	1SQA010436R0001	1
		C	FV 120 V	1 1	A3SSCA-6L4L-91	1SQA010899R0001	1
● Green	● Green	C	FV 120 V	0 0	A3SSCA-6L4G-00	1SQA009456R0001	1
		C	FV 120 V	1 1	A3SSCA-6L4R-91	1SQA010900R0001	1
● Red	● Red	C	FV 120 V	0 0	A3SSCA-6L4R-00	1SQA009459R0001	1
		C	FV 120 V	1 1	A3SSCA-6L5G-91	1SQA010901R0001	1
● Green	● Green	C	Trans. 120 V	0 0	A3SSCA-6L5G-00	1SQA010438R0001	1
		C	Trans. 120 V	1 1	A3SSCA-6L5G-91	1SQA010901R0001	1
● Red	● Red	C	Trans. 120 V	1 1	A3SSCA-6L5R-91	1SQA010902R0001	1
		C	Trans. 120 V	0 0	A3SSCA-6L5R-00	1SQA009462R0001	1

30 mm heavy duty oil-tight range

Non-illuminated key-operated selector switches

Description

Each reference includes the satin chrome metal body and nut together with the holder.

Operating principle	Cam function	Key removal position	Contacts	Catalog number	Order code	Pkg qty
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2-position						
	A	All	0 0	A3SKAE-6AA1-00	1SQA010170R0001	1
	A	All	1 0	A3SKAE-6AA1-10	1SQA010952R0001	1
	A	All	2 0	A3SKAE-6AA1-20	1SQA011084R0001	1
	A	All	1 1	A3SKAE-6AA1-91	1SQA010953R0001	1
	A	All	2 2	A3SKAE-6AA1-92	1SQA012005R0001	1
	A	A only	0 0	A3SKAF-6AA1-00	1SQA010171R0001	1
	A	A only	1 0	A3SKAF-6AA1-10	1SQA010954R0001	1
	A	A only	1 1	A3SKAF-6AA1-91	1SQA010955R0001	1
	A	A only	2 2	A3SKAF-6AA1-92	1SQA012004R0001	1
	A	C only	0 0	A3SKAG-6AA1-00	1SQA010210R0001	1
	A	C only	1 1	A3SKAG-6AA1-91	1SQA010956R0001	1
	A	C only	1 1	A3SKAX-6AA1-91	1SQA010957R0001	1
3-position						
	B	All	0 0	A3SKBE-6AA1-00	1SQA009347R0001	1
	B	All	1 1	A3SKBE-6AA1-91	1SQA010958R0001	1
	B	All	2 2	A3SKBE-6AA1-92	1SQA011085R0001	1
	B	A only	0 0	A3SKBF-6AA1-00	1SQA010412R0001	1
	B	A only	1 1	A3SKBF-6AA1-91	1SQA010959R0001	1
	B	A only	2 2	A3SKBF-6AA1-92	1SQA011086R0001	1
	B	B only	0 0	A3SKBH-6AA1-00	1SQA009350R0001	1
	B	B only	1 1	A3SKBH-6AA1-91	1SQA010960R0001	1
	B	B only	2 2	A3SKBH-6AA1-92	1SQA011087R0001	1
	C	All	0 0	A3SKCE-6AA1-00	1SQA009355R0001	1
	C	All	1 1	A3SKCE-6AA1-91	1SQA010962R0001	1
	C	All	2 2	A3SKCE-6AA1-92	1SQA012007R0001	1
	C	A only	0 0	A3SKCF-6AA1-00	1SQA010413R0001	1
	C	A only	1 1	A3SKCF-6AA1-91	1SQA010963R0001	1
	C	C only	0 0	A3SKCG-6AA1-00	1SQA009358R0001	1
	C	C only	1 1	A3SKCG-6AA1-91	1SQA010964R0001	1
	C	B only	0 0	A3SKCH-6AA1-00	1SQA009360R0001	1
	C	B only	1 1	A3SKCH-6AA1-91	1SQA010965R0001	1
	C	B only	2 2	A3SKCH-6AA1-92	1SQA012006R0001	1
	D	All	0 0	A3SKDE-6AA1-00	1SQA009368R0001	1
	D	All	1 1	A3SKDE-6AA1-91	1SQA010969R0001	1
	D	All	2 2	A3SKDE-6AA1-92	1SQA011090R0001	1
	D	A only	0 0	A3SKDF-6AA1-00	1SQA010415R0001	1
	D	A only	1 1	A3SKDF-6AA1-91	1SQA010970R0001	1
	D	B only	0 0	A3SKDH-6AA1-00	1SQA010416R0001	1
	D	B only	1 1	A3SKDH-6AA1-91	1SQA010971R0001	1

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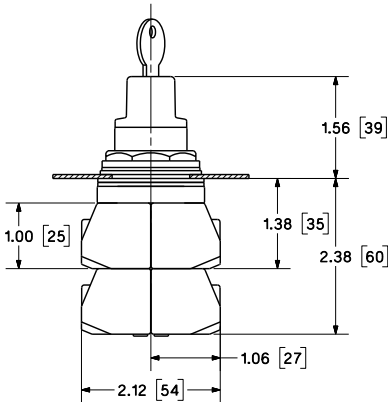
30 mm heavy duty oil-tight range

Non-illuminated key-operated selector switches

Description

Each reference includes the satin chrome metal body and nut together with the holder.

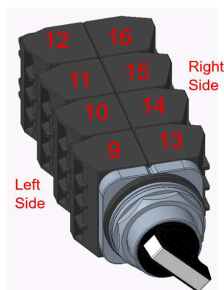
Operating principle	Cam function	Key removal position	Contacts	Catalog number	Order code	Pkg qty
3-position						
A B C	E	All	0 0	A3SKEE-6AA1-00	1SQA010418R0001	1
	E	All	1 1	A3SKEE-6AA1-91	1SQA010973R0001	1
	E	All	2 2	A3SKEE-6AA1-92	1SQA011092R0001	1
	G	All	0 0	A3SKGE-6AA1-00	1SQA009378R0001	1
	G	All	2 2	A3SKGE-6AA1-92	1SQA010976R0001	1
	G	C only	0 0	A3SKGG-6AA1-00	1SQA009380R0001	1
	G	B only	0 0	A3SKGH-6AA1-00	1SQA009381R0001	1
	G	B only	2 2	A3SKGH-6AA1-92	1SQA010977R0001	1
A B C	B	B and C	0 0	A3SKBY-6AA1-00	1SQA009354R0001	1
	C	B only	0 0	A3SKCT-6AA1-00	1SQA009362R0001	1
	C	B and C	0 0	A3SKCY-6AA1-00	1SQA009366R0001	1
	C	B and C	1 1	A3SKCY-6AA1-91	1SQA010968R0001	1
	C	B and C	2 2	A3SKCY-6AA1-92	1SQA011089R0001	1
	D	B and C	0 0	A3SKDY-6AA1-00	1SQA010417R0001	1
	D	B and C	1 1	A3SKDY-6AA1-91	1SQA010972R0001	1
	D	B and C	2 2	A3SKDY-6AA1-92	1SQA011091R0001	1
	E	B only	0 0	A3SKET-6AA1-00	1SQA010419R0001	1
	E	B only	1 1	A3SKET-6AA1-91	1SQA010974R0001	1
	E	B only	2 2	A3SKET-6AA1-92	1SQA011093R0001	1
	B	B only	0 0	A3SKBV-6AA1-00	1SQA009352R0001	1
	B	B only	1 1	A3SKBV-6AA1-91	1SQA010961R0001	1
A B C	B	B only	2 2	A3SKBV-6AA1-92	1SQA011088R0001	1
	C	B only	0 0	A3SKCV-6AA1-00	1SQA009364R0001	1
	C	B only	1 1	A3SKCV-6AA1-91	1SQA010967R0001	1
	C	B only	2 2	A3SKCV-6AA1-92	1SQA010967R0001	1
	D	B only	0 0	A3SKDV-6AA1-00	1SQA009372R0001	
	E	B only	0 0	A3SKEV-6AA1-00	1SQA009376R0001	1
	E	B only	1 1	A3SKEV-6AA1-91	1SQA010975R0001	1
	E	B only	2 2	A3SKEV-6AA1-92	1SQA011094R0001	1
	C	B only	0 0	A3SKCU-6AA1-00	1SQA010414R0001	1
A B C	C	B only	1 1	A3SKCU-6AA1-91	1SQA010966R0001	1



Selector switch keyed
Dimensions inches, [mm]

30 mm heavy duty oil-tight range

Contact configuration for pushbuttons and selector switches



Maximum number of contacts is:

- (8) four on each side for non-illuminated pushbuttons
- (8) four on right side for illuminated/push to test pushbuttons
- (8) four on each side for non-illuminated selector switches
- (4) four on left side for illuminated selector switches (CAM A & C)
- (4) four on right side for illuminated selector switches (CAM B)

NC: Normally closed contact [X] — single contact block

NO: Normally opened contact [0] — single contact block

NO-NC: normally closed and normally opened contact — double contact block

Position

Contact no.	9	10	11	12	13	14	15	16
01*	NC							
02	NC				NC			
03	NC	NC			NC			
04	NC	NC			NC	NC		
05	NC	NC	NC		NC	NC		
06	NC	NC	NC		NC	NC	NC	
07	NC	NC	NC	NC	NC	NC	NC	
08	NC	NC	NC	NC	NC	NC	NC	NC
10	NO							
11	NC				NO			
12	NC	NO			NC			
13	NC	NO			NC	NC		
14	NC	NO	NC		NC	NC		
15	NC	NO	NC		NC	NC	NC	
16	NC	NO	NC	NC	NC	NC	NC	
17	NC	NO	NC	NC	NC	NC	NC	NC
20	NO				NO			
21	NC	NO			NO			
22	NC	NO			NC	NO		
23	NC	NO	NC		NC	NO		
24	NC	NO	NC		NC	NO	NC	
25	NC	NO	NC	NC	NC	NO	NC	
26	NC	NO	NC	NC	NC	NO	NC	NC
30	NO	NO			NO			
31	NC	NO			NO	NO		
32	NC	NO	NO		NC	NO		
33	NC	NO	NO		NC	NO	NC	
34	NC	NO	NC	NO	NC	NO	NC	
35	NC	NO	NC	NO	NC	NO	NC	NC
40	NO	NO			NO	NO		
41	NC	NO	NO		NO	NO		
42	NC	NO	NO		NC	NO	NO	
43	NC	NO	NO	NO	NC	NO	NO	
44	NC	NO	NO	NO	NC	NO	NO	NO
50	NO	NO	NO		NO	NO		
51	NC	NO	NO		NO	NO	NO	
52	NC	NO	NO	NO	NC	NO	NO	
53	NC	NO	NC	NO	NC	NO	NO	NO
60	NO	NO	NO		NO	NO	NO	
61	NC	NO	NO	NO	NO	NO	NO	
62	NC	NO	NO	NO	NC	NO	NO	NO
70	NO	NO	NO	NO	NO	NO	NO	
71	NC	NO	NO	NO	NO	NO	NO	NO
80	NO	NO	NO	NO	NO	NO	NO	NO
91	NO-NC							
92	NO-NC				NO-NC			
93	NO-NC	NO-NC			NO-NC	NO-NC		
94	NO-NC	NO-NC			NO-NC	NO-NC		

* Use for pushbuttons only. Selector switches with one contact block will have a special catalog number.

30 mm heavy duty oil-tight range

Cam table

Cam table

Cam type	Contact block	2 Position			Mounting location
A3 series		Left		Right	
A	A3XC10	O		X	Left/right
	A3XC01	X		O	Left/right
Cam type	Contact block	3 Position			Mounting location
A3 series		Left	Center	Right	
B	A3XC10	X			Right
	A3XC10			X	Left
	A3XC01	X	X		Left
	A3XC01		X	X	Right
C	A3XC01	X			Left/right
	A3XC10			X	Left/right
D	A3XC01		X		Left/right
	A3XC10			X	Left/right
E	A3XC10	X			Left/right
	A3XC01		X		Left/right
G	A3XC01	X			Left
	A3XC01		X		Right
	A3XC10			X	Left/right
Cam type	Contact block	4 Position			Mounting location
A3 series		Left	Left center	Right center	Right
H	A3XC10	X			Right
	A3XC01		X		Left
	A3XC01			X	Right
	A3XC10				X Left

30 mm heavy duty oil-tight range

Contact blocks



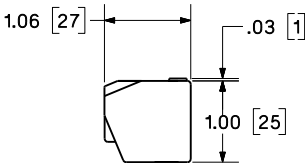
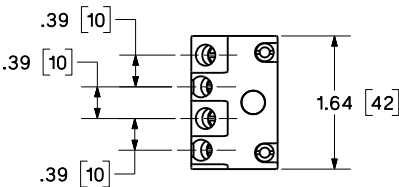
A3XC01

Description

Contact blocks

Contacts	Catalog number	Order code	Pkg qty
0 1	A3XC01 ⁽¹⁾	1SQA009494R0001	1
0 1 Late break	A3XC0B ⁽²⁾	1SQA010979R0001	1
1 0	A3XC10	1SQA009496R0001	1
1 0 Early make	A3XC0M ⁽³⁾	1SQA010981R0001	1
1 1	A3XC91 ⁽¹⁾	1SQA010978R0001	1
1 0 Extra late break	A3XC0N	1SQA010980R0001	1

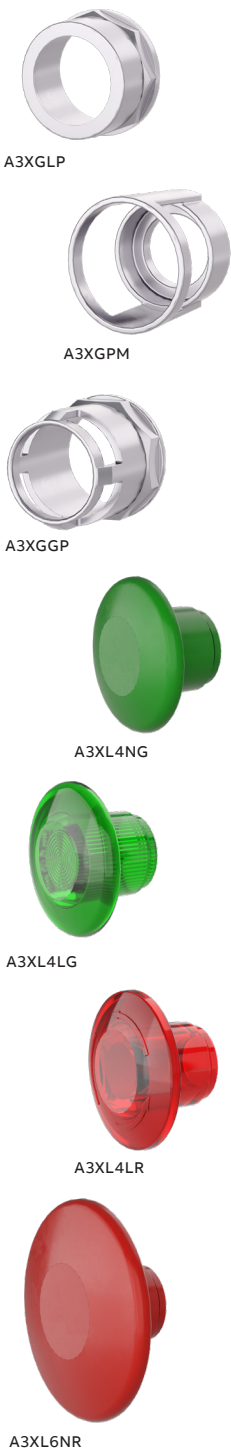
(1) Positive opening according to IEC 60947-5-1, Appendix K.
(2) Opens after A3XC01
(3) Closes before A3XC10



Contact block

Dimensions inches, [mm]

30 mm heavy duty oil-tight range
Accessories



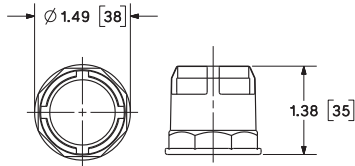
Description

Locks, guards, keys, caps and lenses.

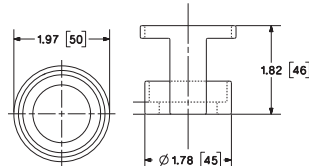
Description	Color	Catalog number	Order code	Pkg qty
Locks and guards				
Pad lock ext cap		A3XGCE	1SQA009500R0001	1
Pad lock flush cap		A3XGCF	1SQA009501R0001	1
Lock nut mushroom		A3XGLM	1SQA009502R0001	1
Lock nut push-pull and twist release		A3XGLN	1SQA009503R0001	1
Lock nut pushbutton		A3XGLP	1SQA009504R0001	1
Guards mushroom		A3XGPM	1SQA009506R0001	1
Locking cover		A3XGCC	1SQA010211R0001	1
Guard PTT		A3XGGL	1SQA010180R0001	1
Guard pushbutton		A3XGGP	1SQA010181R0001	1
Keys				
501H key code		A3XK501	1SQA009581R0001	1
Caps and lenses				
Caps for 44 mm non-illuminated mushrooms	Orange	A3XL4N8	1SQA009511R0001	1
	Assorted*	A3XL4NA	1SQA009512R0001	1
	Black	A3XL4NB	1SQA009513R0001	1
	Green	A3XL4NG	1SQA009514R0001	1
	Blue	A3XL4NL	1SQA009515R0001	1
	Red	A3XL4NR	1SQA009516R0001	1
	Yellow	A3XL4NY	1SQA009517R0001	1
Caps for 44 mm illuminated mushrooms	Green	A3XL4LG	1SQA010212R0001	1
	Amber	A3XL4LM	1SQA010215R0001	1
	Red	A3XL4LR	1SQA009510R0001	1
Caps for 60 mm non-illuminated mushrooms	Orange	A3XL6N8	1SQA009518R0001	1
	Assorted*	A3XL6NA	1SQA009519R0001	1
	Black	A3XL6NB	1SQA009520R0001	1
	Green	A3XL6NG	1SQA009521R0001	1
	Blue	A3XL6NL	1SQA009522R0001	1
	Red	A3XL6NR	1SQA009523R0001	1
	Yellow	A3XL6NY	1SQA009524R0001	1
Caps for 60 mm illuminated mushrooms	Green	A3XL6LG	1SQA010409R0001	1
	Amber	A3XL6LM	1SQA010411R0001	1
	Red	A3XL6LR	1SQA010410R0001	1
Caps for illuminated pushbutton / push to test	Clear	A3XLELC	1SQA009525R0001	1
	Green	A3XLELG	1SQA009526R0001	1
	Blue	A3XLELL	1SQA009527R0001	1
	Amber	A3XLELM	1SQA009528R0001	1
	Red	A3XLELR	1SQA009529R0001	1
	White	A3XLELW	1SQA009530R0001	1
	Grey	A3XLEN6	1SQA009531R0001	1
	Orange	A3XLEN8	1SQA009532R0001	1
Caps for non-illuminated extended pushbuttons	Assorted*	A3XLENA	1SQA009533R0001	1
	Green	A3XLENG	1SQA009534R0001	1
	Blue	A3XLENL	1SQA009535R0001	1
	Red	A3XLENR	1SQA009536R0001	1
	Yellow	A3XLENY	1SQA009537R0001	1

* Assorted includes one of each available color.

Continued on next page



Momentary pushbutton guard, illuminated push to test guard
Dimensions inches, [mm]



Mushroom head Guard
Dimensions inches, [mm]

30 mm heavy duty oil-tight range

Accessories



A3XLFN6



A3XLFN8



A3XLFN8



A3XLLLC



A3XLLLG



A3XLLLR



A3XLMLR



A3XLSSG



A3XLSSR

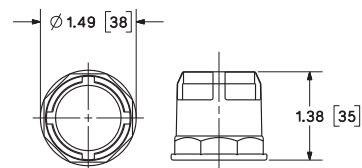
Description

Caps and lenses, selectors and twist releases.

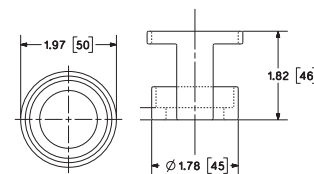
Description	Color	Catalog number	Order code	Pkg qty
Caps and lenses				
Caps for non-illuminated flush pushbuttons	● Grey	A3XLFN6	1SQA009538R0001	1
	● Orange	A3XLFN8	1SQA009539R0001	1
	Assorted*	A3XLFNA	1SQA009540R0001	1
	● Black	A3XLFNB	1SQA009541R0001	1
	● Green	A3XLFNG	1SQA009542R0001	1
	● Blue	A3XLFNL	1SQA009543R0001	1
	● Red	A3XLFNR	1SQA009544R0001	1
	● Yellow	A3XLFNY	1SQA009545R0001	1
Caps for illuminated extended pushbuttons	Assorted*	A3XLLLA	1SQA009546R0001	1
	○ Clear	A3XLLLC	1SQA009547R0001	1
	● Green	A3XLLLG	1SQA009548R0001	1
	● Blue	A3XLLLL	1SQA009549R0001	1
	● Amber	A3XLLLM	1SQA009550R0001	1
	● Red	A3XLLLR	1SQA009551R0001	1
	○ White	A3XLLLW	1SQA009552R0001	1
Caps for 44 mm non-illuminated mushrooms - metal	Chrome	A3XLMN1	1SQA009557R0001	1
	● Green	A3XLMNG	1SQA009558R0001	1
	● Red	A3XLMNR	1SQA009559R0001	1
Caps for 44 mm illuminated mushrooms - Metal	● Green	A3XLMLG	1SQA009553R0001	1
	● Amber	A3XLMLM	1SQA009554R0001	1
	● Red	A3XLMLR	1SQA009555R0001	1
	○ White	A3XLMLW	1SQA009556R0001	1
Caps for selector switches long handle	● Grey	A3XLSG6	1SQA009560R0001	1
	● Orange	A3XLSG8	1SQA009561R0001	1
	● Green	A3XLSGG	1SQA009562R0001	1
	● Blue	A3XLSSL	1SQA009563R0001	1
	● Red	A3XLSSR	1SQA009564R0001	1
	○ White	A3XLSSW	1SQA009565R0001	1
	● Yellow	A3XLSSY	1SQA009566R0001	1
Caps for selector switches short handle	● Grey	A3XLSS6	1SQA009567R0001	1
	● Orange	A3XLSS8	1SQA009568R0001	1
	● Green	A3XLSSG	1SQA009569R0001	1
	● Blue	A3XLSSL	1SQA009570R0001	1
	● Red	A3XLSSR	1SQA009571R0001	1
	○ White	A3XLSSW	1SQA009572R0001	1
	● Yellow	A3XLSSY	1SQA009573R0001	1
Caps for 44 mm non-illuminated mushroom - Twist release	● Green	A3XLTNG	1SQA009577R0001	1
	● Red	A3XLTNR	1SQA009578R0001	1
	● Yellow	A3XLTNY	1SQA009579R0001	1

* Assorted includes one of each available color.

Continued on next page



Momentary pushbutton guard, illuminated push to test guard
Dimensions inches, [mm]



Mushroom head Guard
Dimensions inches, [mm]

30 mm heavy duty oil-tight range

Accessories



A3XBL2G



A3XBL2R



A3XBL4L



A3XBL6W

Description

Lock out kit, LED bulbs, tools, caps and lenses, boots and LED modules.

Description	Color	Catalog number	Order code	Pkg qty
Tools				
Lock out kit		A3XXGC	1SQA009583R0001	1
LED bulb				
Green 24 V	● Green	A3XBL2G	1SQA010193R0001	1
Blue 24V	● Blue	A3XBL2L	1SQA010401R0001	1
Red 24 V	● Red	A3XBL2R	1SQA010192R0001	1
White 24 V	○ White	A3XBL2W	1SQA010194R0001	1
Yellow 24V	● Yellow	A3XBL2Y	1SQA010402R0001	1
Green 120V	● Green	A3XBL4G	1SQA010403R0001	1
Blue 120 V	● Blue	A3XBL4L	1SQA010197R0001	1
Red 120 V	● Red	A3XBL4R	1SQA010195R0001	1
White 120 V	○ White	A3XBL4W	1SQA010198R0001	1
Yellow 120 V	● Yellow	A3XBL4Y	1SQA010196R0001	1
Green 6 V	● Green	A3XBL6G	1SQA010190R0001	1
Blue 6V	● Blue	A3XBL6L	1SQA010405R0001	1
Red 6 V	● Red	A3XBL6R	1SQA010189R0001	1
White 6 V	○ White	A3XBL6W	1SQA010191R0001	1
Yellow 6V	● Yellow	A3XBL6Y	1SQA010406R0001	1
Tools				
Lock nut wrench		A3XGLW	1SQA010221R0001	1
Caps and lenses				
Cap extended red 5 pieces	● Red	A3XLENB	1SQA010201R0001	5
Clear knob and lens	○ Clear	A3XLKLC	1SQA010218R0001	1
Green knob and lens	● Green	A3XLKLG	1SQA010213R0001	1
Blue knob and lens	● Blue	A3XLKLL	1SQA010216R0001	1
Amber knob and lens	● Amber	A3XLKLM	1SQA010217R0001	1
Red knob and lens	● Red	A3XLKLR	1SQA010214R0001	1
White knob and lens	○ White	A3XLKLW	1SQA010219R0001	1
Boots				
Black boot	● Black	A3XLP0B	1SQA010223R0001	1
Clear boot	○ Clear	A3XLP0C	1SQA010222R0001	1
LED module				
Green 24 V	● Green	A3XMLLG	1SQA010183R0001	1
Blue 24 V	● Blue	A3XMLLL	1SQA010480R0001	1
Red 24 V	● Red	A3XMLLR	1SQA010182R0001	1
White 24 V	○ White	A3XMLLW	1SQA010408R0001	1
Yellow 24 V	● Yellow	A3XMLLY	1SQA010184R0001	1
Green 24-240 V	● Green	A3XMLOG	1SQA010185R0001	1
Blue 24-240 V	● Blue	A3XMLUL	1SQA010458R0001	1
Red 24-240 V	● Red	A3XMLUR	1SQA010456R0001	1
White 24-240 V	○ White	A3XMLUW	1SQA010455R0001	1
Yellow 24-240 V	● Yellow	A3XMLUY	1SQA010459R0001	1
Lamp module no bulb 120 V max		A3XMN4N	1SQA010179R0001	1
Transformer 120 V AC no bulb		A3XMN5N	1SQA010404R0001	1
Transformer 240 V AC no bulb		A3XMN6N	1SQA010186R0001	1
Transformer 277 V AC no bulb		A3XMN7N	1SQA010188R0001	1
Transformer 280 V AC no bulb		A3XMN8N	1SQA010187R0001	1
Transformer 600 V AC no bulb		A3XMN9N	1SQA010407R0001	1

30 mm heavy duty oil-tight range

NEMA enclosures



104PEG11E



104PEG12G



104PEG12



104PEG13



104PES11



104PES14

Description

Painted sheet steel or stainless steel.

Material type	Text	Number of holes	Catalog number	Pkg qty
NEMA 1, 3, 3R, 12, 13				
Painted sheet steel	Start	1	104PEG11C	1
	Stop	1	104PEG11D	1
	Hand-Off-Auto	1	104PEG11E	1
	Start-Stop	2	104PEG12G	1
	Open-Close	2	104PEG12K	1
	Open-Close-Stop	3	104PEG13P	1
	Estop	1	104PEG11S	1
	Hand-Auto	1	104PEG11T	1
	No text	1	104PEG11	1
	No text	2	104PEG12	1
	No text	3	104PEG13	1
	No text	4	104PEG14	1
	No text	6	104PEG23	1
NEMA 3, 3R, 4, 4X, 12, 13				
Stainless steel	Start	1	104PES11C	1
NEMA 4X stainless steel				
Stainless steel	Hand-Off-Auto	1	104PES11E	1
	Start-Stop	2	104PES12G	1
	No text	1	104PES11	1
	No text	2	104PES12	1
	No text	3	104PES13	1
	No text	4	104PES14	1
	No text	6	104PES23	1

30 mm heavy duty oil-tight range

Name plates



CR104PXN1BP006



CR104PXN2RP009



CR104PXN1BP024



CR104PXN1BP037



CR104PXN2RP040

Sizes table

Sizes	Dimensions (H x W, Inches)
Nameplate	
Standard (Replace * with 1)	1.98 x 1.93
Large (Replace * with 2)	1.98 x 2.63
Extra-large, automotive (Replace * with 3)	2.40 x 2.44

Description

To select size, replace asterisk (*) in product number with appropriate digit from sizes table.

Text	Catalog number	Pkg qty
Blank	CR104PXN*B	1
Blank (Red)	CR104PXN*R	1
Blank (with round)	CR104PXN6E	1
CLOSE	CR104PXN*BP006	1
DECREASE	CR104PXN*BP007	1
DOWN	CR104PXN*BP008	1
EMERGENCY STOP (Red)	CR104PXN*RP009	1
FAST	CR104PXN*BP010	1
FORWARD	CR104PXN*BP011	1
HIGH	CR104PXN*BP012	1
IN	CR104PXN*BP013	1
INCH	CR104PXN*BP014	1
INCREASE	CR104PXN*BP017	1
JOG	CR104PXN*BP018	1
JOG FORWARD	CR104PXN*BP019	1
JOG REVERSE	CR104PXN*BP020	1
LEFT	CR104PXN*BP021	1
LOW	CR104PXN*BP022	1
LOWER	CR104PXN*BP023	1
OFF	CR104PXN*BP024	1
ON	CR104PXN*BP025	1
OPEN	CR104PXN*BP026	1
OUT	CR104PXN*BP027	1
POWER ON	CR104PXN*BP084	1
RAISE	CR104PXN*BP028	1
RESET	CR104PXN*BP030	1
RETURN	CR104PXN*BP031	1
REVERSE	CR104PXN*BP032	1
RIGHT	CR104PXN*BP033	1
RUN	CR104PXN*BP034	1
SLOW	CR104PXN*BP036	1
START	CR104PXN*BP037	1
START CYCLE	CR104PXN*BP038	1
STOP (Red)	CR104PXN*RP040	1
STOP CYCLE (Red)	CR104PXN*RP041	1
TEST	CR104PXN*BP043	1
UP	CR104PXN*BP047	1
EMERGENCY STOP PULL TO TEST (Red)	CR104PXN*RP048	1
PUSH TO STOP–PULL TO START	CR104PXN*BP085	1

Continued on next page

30 mm heavy duty oil-tight range

Name plates



CR104PXN1BP050



CR104PXN1BP057



CR104PXN1BP066



CR104PXN1BP070



CR104PXN2BP070

Sizes table

Sizes	Dimensions (H x W, Inches)
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Nameplate

Standard (Replace * with 1)	1.98 x 1.93
Large (Replace * with 2)	1.98 x 2.63
Extra-large, automotive (Replace * with 3)	2.40 x 2.44

Description

To select size, replace asterisk (*) in product number with appropriate digit from sizes table.

Text	Catalog number	Pkg qty
FOR-REV	CR104PXN*BP050	1
HAND-AUTO	CR104PXN*BP051	1
HIGH-LOW	CR104PXN*BP052	1
JOG-RUN	CR104PXN*BP053	1
LEFT-RIGHT	CR104PXN*BP054	1
LOW-HIGH	CR104PXN*BP055	1
LOWER-RAISE	CR104PXN*BP056	1
OFF-ON	CR104PXN*BP057	1
OPEN-CLOSE	CR104PXN*BP058	1
RAISE-LOWER	CR104PXN*BP059	1
REV-FOR	CR104PXN*BP060	1
RUN-JOG	CR104PXN*BP061	1
SAFE-RUN	CR104PXN*BP062	1
SAFE-STOP-RUN	CR104PXN*BP063	1
SLOW-FAST	CR104PXN*BP064	1
START-JOG	CR104PXN*BP087	1
START-STOP	CR104PXN*BP086	1
STOP-START	CR104PXN*BP065	1
UP-DOWN	CR104PXN*BP066	1
OFF-COOLANT-ON	CR104PXN*BP067	1
AUTO-OFF-HAND	CR104PXN*BP083	1
FOR-OFF-REV	CR104PXN*BP068	1
FOR-STOP-REV	CR104PXN*BP069	1
HAND-OFF-AUTO	CR104PXN*BP070	1
JOG-OFF-RUN	CR104PXN*BP071	1
JOG-SAFE-RUN	CR104PXN*BP072	1
LOW-OFF-HIGH	CR104PXN*BP073	1
LOWER-OFF-RAISE	CR104PXN*BP074	1
MAN-OFF-AUTO CR104PXN*BP076 \$1.80	CR104PXN*BP076	1
OPEN-OFF-CLOSE	CR104PXN*BP077	1
REV-OFF-FOR	CR104PXN*BP079	1
SLOW-OFF-FAST	CR104PXN*BP080	1
SLOW-STOP-FAST	CR104PXN*BP081	1
POTENTIOMETER MARKINGS	CR104PXN*BP082	1
OFF-AUTO	CR104PXN1BP090	1
ON-OFF-AUTO	CR104PXN1BP091	1
PUSH TO STOP-TURN TO RESET (Round w/Yellow Background)	CR104PXN6EP092	1
Yellow Background Emergency Stop	CR104PXN6EP009	1

30 mm heavy duty oil-tight range

Technical specifications

Standards	UL Listed File # E2403	
Utilization	Category NEMA	A600/P600
Degree of protection	Operators	NEMA: 1, 3, 3R, 4, 4X, 12 and 13 IEC 529; IP10, IP11, IP14, IP52, IP54, IP56 and IP66

Rated operational current

NEMA A600 — 10 continuous amps			NEMA P600 — Rating codes for DC control	
Voltage AC	Make amps	Break amps	Circuit application	
120 V	60	6	Thermal continuous test current amps	5.0
240 V	30	3	Maximum make or break; current / amps	
480 V	15	1.5	125 V	1.10
600 V	12	1.2	250 V	0.55
Total VA	7200	720	301–600 V	0.20
			Maximum make or break	
			Volt amperes at 300 V or Less	138

Contact blocks	A3X	600 V AC maximum, heavy duty 200 V AC 0.25 amp, 10 watt maximum 200 V DC 0.50 amp, 10 watt maximum		
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^a  Positively driven contacts. Contact blocks are suitable for applications down to 5V/1mA low voltage applications as found in PLCs.

Pilot light	Full voltage LED module Transformer type	A3L	-B (6-8 V), -1 (12 V), -2 (24 V), -4 (120 V) -L (6-24 V), U (24-240 V) -5 (120 V), -6 (240 V), -7 (277 V), -8 (480 V), -9 (600 V)	120 V AC/DC max. 240 V AC/DC max. 600 V AC max., 50/60 Hz
Push-to-test	Full voltage LED module Transformer type	A3PL	-B (6-8 V), -1 (12 V), -2 (24 V), -4 (120 V) -L (6-24 V), U (24-240 V) -5 (120 V), -6 (240 V), -7 (277 V), -8 (480 V), -9 (600 V)	120 V AC/DC max. 240 V AC/DC max. 600 V AC max., 50/60 Hz
Illuminated push-pull	Full voltage LED module Transformer	A3PP	-B (6-8 V), -1 (12 V), -2 (24 V), -4 (120 V) -L (6-24 V), U (24-240 V) -5 (120 V), -6 (240 V), -7 (277 V), -8 (480 V), -9 (600 V)	120 V AC/DC max. 240 V AC/DC max. 600 V AC max., 50/60 Hz
Twist-to-release	Full voltage LED module Transformer	A3PT	-B (6-8 V), -1 (12 V), -2 (24 V), -4 (120 V) -L (6-24 V), U (24-240 V) -5 (120 V), -6 (240 V), -7 (277 V), -8 (480 V), -9 (600 V)	120 V AC/DC max. 240 V AC/DC max. 600 V AC max., 50/60 Hz
Illuminated selector switch	Full voltage Transformer	A3S	-B (6-8 V), -1 (12 V), -2 (24 V), -4 (120 V) -L (6-24 V), U (24-240 V) -5 (120 V), -6 (240 V), -7 (277 V), -8 (480 V), -9 (600 V)	120 V AC/DC max. 240 V AC/DC max. 600 V AC max., 50/60 Hz
Dielectric strength			2200 V for one minute	

Mechanical design life cycles

Vibration	Frequency 5–60 Hz.; Disp. .030 inches, sweep 5 minutes for a duration of 30 minutes on each axis. Not to exceed 5.5 G's for maximum of 1 minute.	
Pushbuttons	Momentary, non-illuminated Momentary, illuminated	5,000,000 Operating cycles 300,000 Operating cycles
Push-pull	Maintained Momentary	300,000 Operating cycles 2,000,000 Operating cycles
Twist-to-release		300,000 Operating cycles
Selector Switches	Non-illuminated Illuminated, key-operated	2,000,000 Operating cycles 2,000,000 Operating cycles
Contact operation	Standard contact black Logic reed	
Wire gauge	#18-12 AWG	
Terminal screw torque	2-10 lb-in / 20 lb-in max; 8 lb-in recommended	
Locknut torque	15 ft. lbs. max	
Temperature range	Operating storage	31 °F to +158 °F (-35 °C to +70 °C) 40 °F to +185 °F (-40 °C to +85 °C)

All parts are designed and manufactured of corrosion-resistant material or are plated or painted as corrosion protection. All contact block contacts are gold flashed as a standard offering. Internal return spring mechanisms of operators and contact blocks of stainless steel. RoHS Compliant.

Declaration of Conformity — The products listed below, to which this declaration relates, are in conformity with the following standards, following the provisions of the Low Voltage Directive (LVD) (73/23/EEC), and the Electromagnetic Compatibility Directive (89/336/EEC.)

Products: Contact Blocks: Cat Nos. A3XC0B, A3XC0M, A3XC01, A3XC10, A3XC0N and A3XC91, with suffixes. Pilot Lights: Cat Nos A3L, with suffixes. Operators: Cat Nos A3S or A3P, with suffixes.

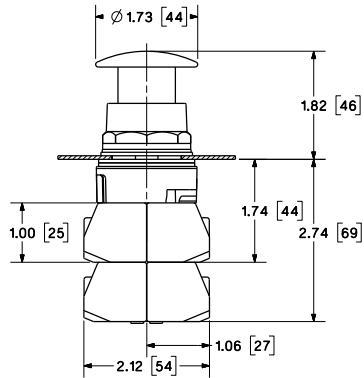
Applicable Standards: EN 60947-5-1 Low-Voltage Switchgear and control gear. Enclosed devices meet the requirements of environmental ratings of IP10, IP11, IP14, IP52, IP54, and IP56. Open devices, when mounted as instructed, in environmental type IP10, IP11, IP14, IP52, IP54 or IP56 enclosures, maintain the environmental requirements for those enclosure types. 2 Position, Twist-To-Release and 2 Position, Push Pull Maintained operators provided with red operating heads and A3XC91 contact blocks meet the requirements of EN 60947-5-5 for Electrical Emergency Stop Device With Mechanical Latching Function (e-stop).

30 mm heavy duty oil-tight range

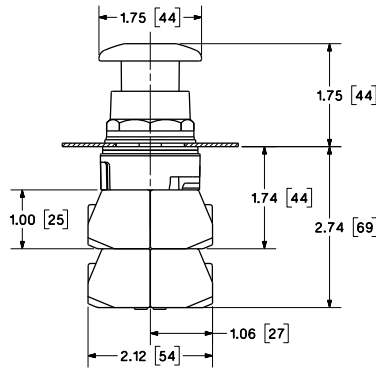
Dimensions

30 mm water, oil-tight and corrosion-resistant — A3

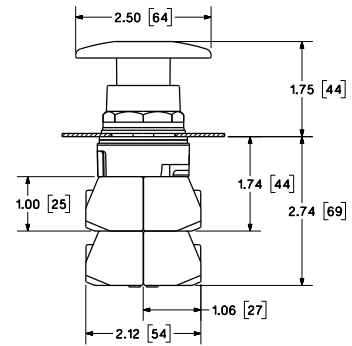
Non-illuminated push-pull
metal mushroom head



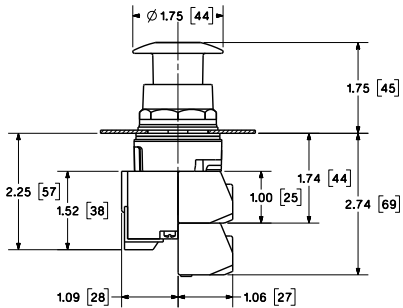
Non-illuminated push-pull
small plastic mushroom head



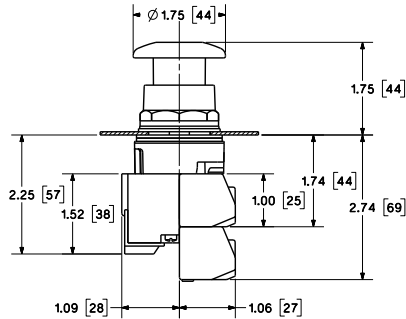
Non-illuminated push-pull
large plastic mushroom head



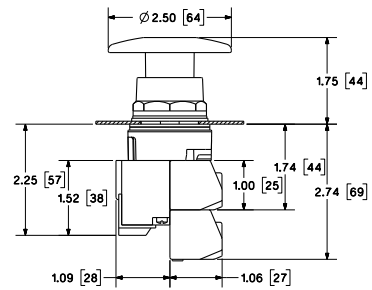
Illuminated push-pull
metal mushroom head



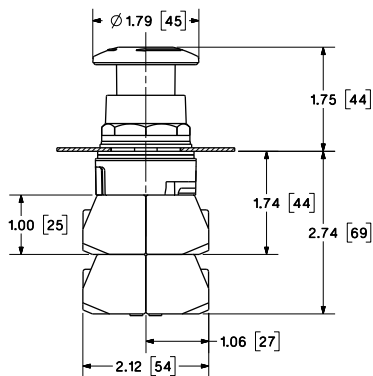
Fully illuminated push-pull
small plastic mushroom head



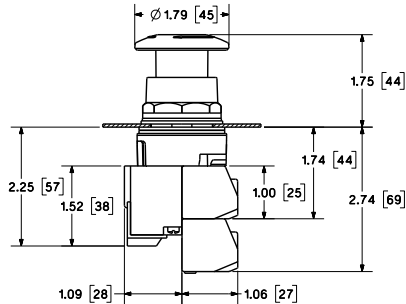
Illuminated push-pull
large plastic mushroom head



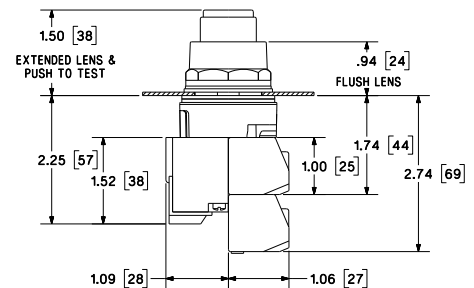
Non-illuminated twist release
plastic mushroom head



Illuminated twist release
plastic mushroom head



Illuminated pushbutton flush lens
illuminated pushbutton extended lens
illuminated push to test

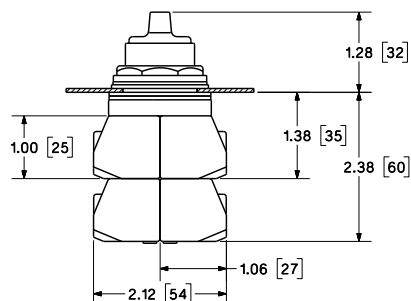


30 mm heavy duty oil-tight range

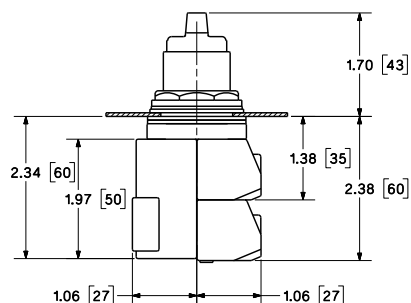
Dimensions

30 mm water, oil-tight and corrosion-resistant — A3

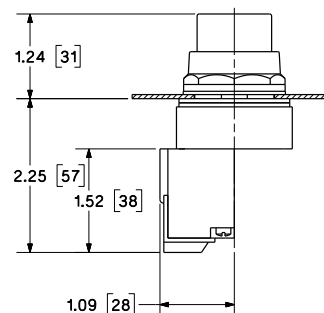
Selector switch
Non-illuminated



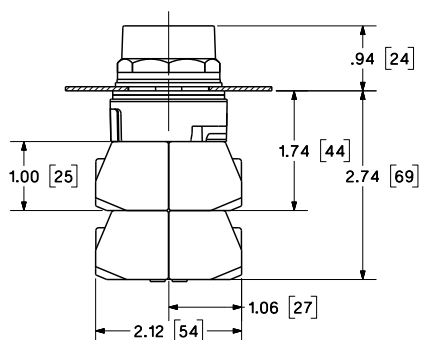
Selector switch
illuminated



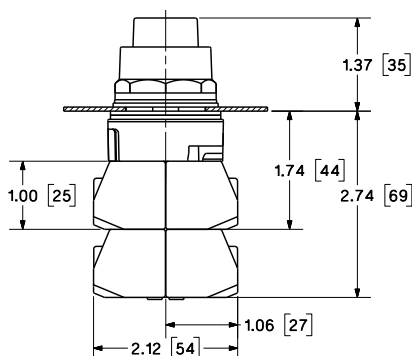
Indicator light



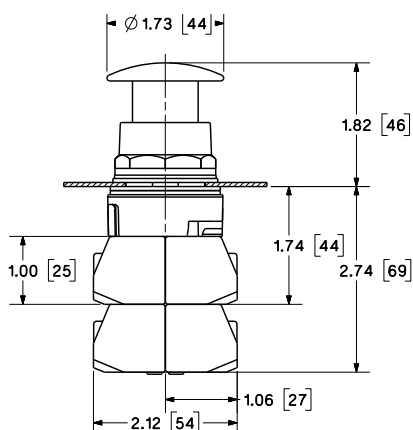
Momentary pushbutton
non-illuminated flush cap



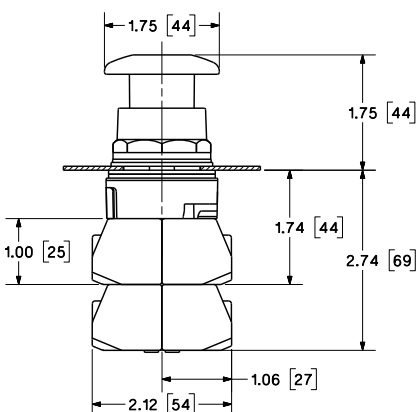
Momentary pushbutton
non-illuminated raised cap



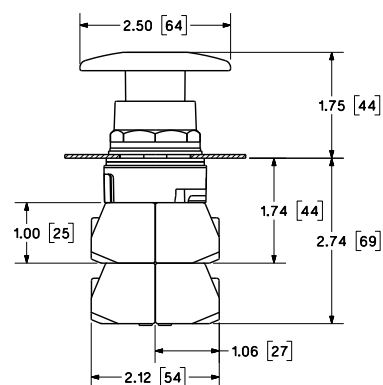
Momentary pushbutton
metal mushroom head



Momentary pushbutton
small plastic mushroom head



Momentary pushbutton
large plastic mushroom head

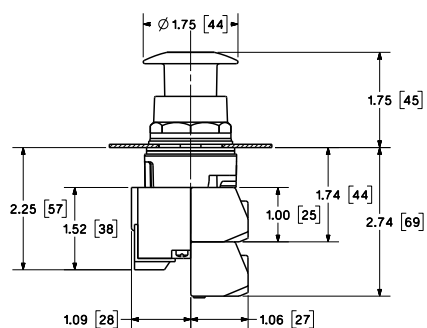


30 mm heavy duty oil-tight range

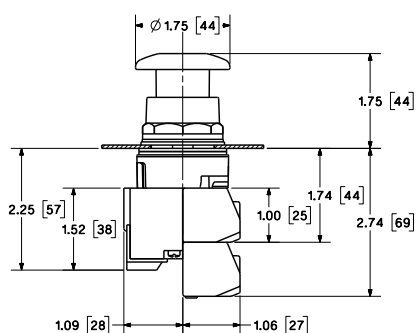
Dimensions

30 mm water, oil-tight and corrosion-resistant — A3

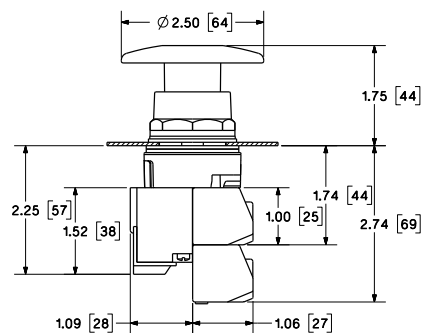
Illuminated momentary pushbutton
metal mushroom head



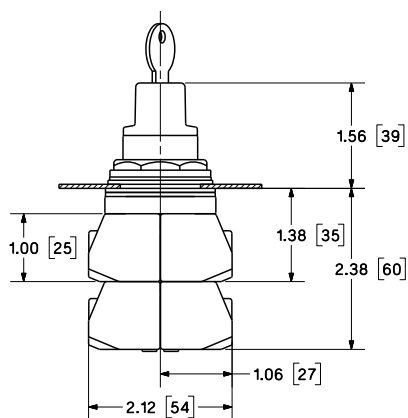
Illuminated momentary pushbutton
small plastic mushroom head



Illuminated momentary pushbutton
large plastic mushroom head



Selector switch
keyed

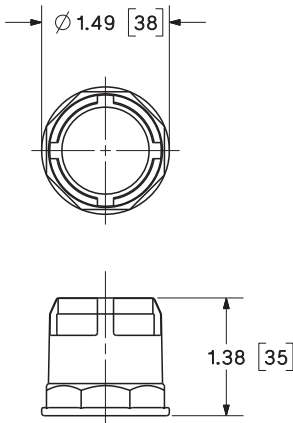


30 mm heavy duty oil-tight range

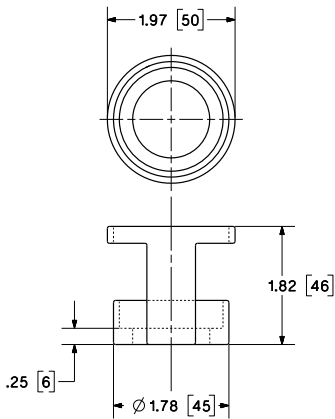
Dimensions

30 mm water, oil-tight and corrosion-resistant — A3

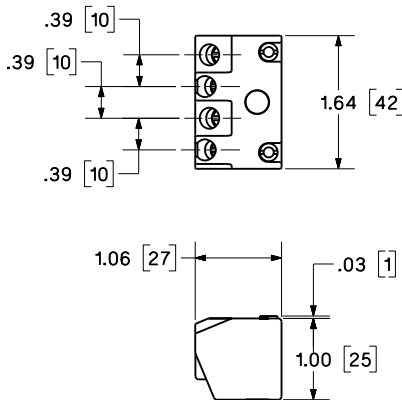
Momentary pushbutton guard
illuminated push to test guard



Mushroom head guard



Contact block



30 mm heavy duty oil-tight range

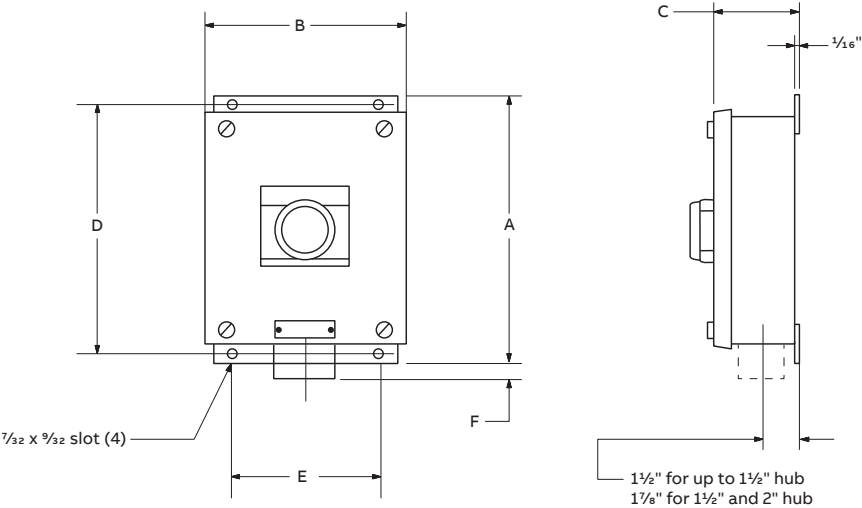
Dimensions

NEMA enclosures

No. of holes per unit ¹	A		B		C		D		E		F		Hub sizes inches ²
	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm	
1	5.50	139.70	3.50	88.90	4.25	108.00	5.00	127.00	2.38	60.40	.31	7.90	¾
2	7.75	196.80	3.50	88.90	4.25	108.00	7.25	184.20	2.38	60.40	.31	7.90	¾
3	10.00	254.00	3.50	88.90	4.25	108.00	9.50	241.30	2.38	60.40	.31	7.90	¾
4	13.38	339.80	3.50	88.90	4.25	108.00	12.88	327.20	2.38	60.40	.31	7.90	1
6	10.50	266.70	7.00	177.80	4.25	108.00	10.00	254.00	5.88	149.40	.31	7.90	1½

¹ Vertical and horizontal spacing of holes is suitable for use with standard (size 1) and large (size 3) CR104P nameplates.

² Stainless steel enclosure only.



General technical data

Color selection

Color selection according to IEC 60073

IEC 60073 specifies coding principles for indicators and actuators and gives recommendation regarding the use of colors. An excerpt from the standard is given below. For detailed information, see the standard.

Meaning of colors – General principles				
Color		Safety of persons or environment	Condition of process	State of equipment
● Red	Red	Danger	Emergency	Faulty
● Yellow	Yellow	Warning/caution	Abnormal	Abnormal
● Green	Green	Safe	Normal	Normal
● Blue	Blue	Mandatory significance		
○ ● White, gray, black	White, gray, black	No specific meaning assigned		

Non-illuminated actuators

Emergency Actuators

EMERGENCY STOP / OFF actuators shall be identified by the color RED.

STOP / OFF actuators

WHITE, GREY and BLACK are the preferred colors for STOP / OFF actuators, with the main preference being for BLACK. RED is also permitted. GREEN shall not be used.

START / ON actuators

WHITE, GREY and BLACK are the preferred colors for START / ON actuators, which cause the closing of switching devices and the equipment to start, with the main preference being for WHITE. GREEN is also permitted. RED shall not be used.

Use of WHITE and BLACK for specific meanings

Where the colors WHITE and BLACK are used to distinguish between START / ON and STOP / OFF actuators, then the color WHITE shall be used for START / ON actuators and the color BLACK shall be used for STOP / OFF actuators.

The same actuators serving for START / STOP or ON / OFF

WHITE, GREY and BLACK are the preferred colors for actuators which, when actuated several times, act alternately as a START / ON and STOP / OFF actuator.

The colors YELLOW and GREEN shall not be used. The color RED shall be used only in cases where the same actuator, other than a pushbutton, is used for both EMERGENCY STOP / OFF and normal operation.

WHITE, GREY and BLACK are preferred colors for actuators which cause a movement while they are actuated and stop the movement when they are released (such as inching or jogging actuators). GREEN is also permitted. RED shall not be used.

RESET actuators

RESET Actuators (used, for example, with protective relays) shall be BLUE, WHITE, GREY or BLACK, except RESET actuators which also act as STOP / OFF actuators. The color of such STOP / OFF actuators shall be in accordance with STOP / OFF actuators above.

General technical data

Degrees of protection

In an installation, the degree of protection required for electrical equipment depends on the environmental characteristics.

The degree of protection, ensured by the enclosure of equipment or by the cubicle containing the equipment is expressed by the IP code which gives the level of protection against access to hazardous parts, the ingress of foreign bodies and/or the ingress of water, in compliance with IEC 60529, IEC 60947-1. Besides the IP symbol, the complete code has two figures followed (optionally) by two additional letters. A short description of the elements used in IP coding is given below.

First figure	Specifications for installation protection	
	Against ingress of foreign bodies	Protection of persons Against access to hazardous parts with:
IP 0	No protection	No protection
1	Diameter > 50 mm	Back of hand
2	Diameter > 12.5 mm	Finger
3	Diameter > 2.5 mm	Tool
4	Diameter > 1 mm	Wire
5	Limited protection against dust	Wire
6	Total protection against dust	Wire
Second figure	Against entrance of water having a harmful effect	
0	No protection	
1	Vertical dripping	
2	Dripping at a vertical angle of < 15°	
3	Rain at a vertical angle of < 60°	
4	Splashing	
5	Low pressure water jet	
6	Powerful water jets	
7	Temporary immersion	
8	Permanent immersion	
9K*	High pressure, high temperature washdown	

Note: the type of enclosure or cubicle in which the equipment must be installed prevails with respect to the degree of protection.

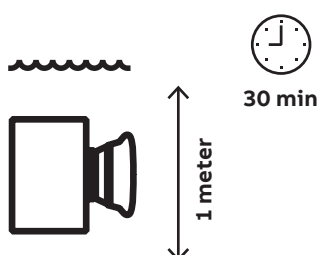
(*) According to DIN 400 50-9.



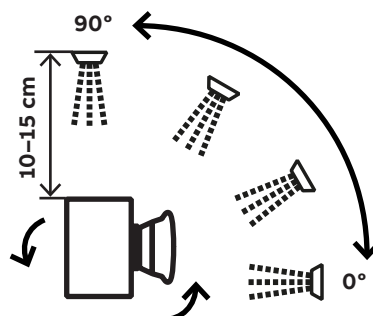
Water tests

IP67

The product is submerged



IP69K



Index

Order code classification

Order code	Type	Page	Order code	Type	Page	Order code	Type	Page
1SFA170190R8000	080CP-N	80	1SFA184033R9003	P9M-EM3GN	59	1SFA184409R9006	P9M-SCD5A95	68
1SFA170191R8000	080CP-R	80	1SFA184040R9006	P9M-EM4NN	59	1SFA184410R9006	P9M-SCI5C95	68
1SFA170192R8000	080CP-V	80	1SFA184041R9001	P9M-EM4RN	59	1SFA184433R9006	P9M-SCZ0A95	69
1SFA170198R8000	080CP-T	80	1SFA184042R9002	P9M-EM4VN	59	1SFA184434R9006	P9M-SCZ0C95	69
1SFA170801R1001	080SP-1	81	1SFA184043R9003	P9M-EM4GN	59	1SFA184436R9006	P9M-SCZ0H95	69
1SFA170802R1002	080SP-2	81	1SFA184050R9006	P9M-EM6NN	59	1SFA184438R9006	P9M-SCZ0N95	69
1SFA170803R1003	080SP-3	81	1SFA184051R9001	P9M-EM6RN	59	1SFA184439R9006	P9M-SCZ0T95	69
1SFA170804R1004	080SP-4	81	1SFA184052R9002	P9M-EM6VN	59	1SFA184449R9006	P9M-SCZ1C95	69
1SFA170806R1006	080SP-6	81	1SFA184053R9003	P9M-EM6GN	59	1SFA184451R9006	P9M-SCZ1N95	69
1SFA170831R1001	080SP-1M	81	1SFA184057R9003	P9M-PNGS	56	1SFA184461R9006	P9M-SCZ5A95	70
1SFA170832R1002	080SP-2M	81	1SFA184060R9006	P9M-ET4NN1	59	1SFA184462R9006	P9M-SCZ5C95	70
1SFA170834R1004	080SP-4M	81	1SFA184061R9001	P9M-ET4RN1	59	1SFA184463R9006	P9M-SCZ5H95	70
1SFA184000R9006	P9M-PNNG	56	1SFA184062R9002	P9M-ET4VN1	59	1SFA184467R9006	P9M-SCZ3C95	70
1SFA184001R9001	P9M-PNNG	56	1SFA184063R9003	P9M-ET4GN1	59	1SFA184468R9006	P9M-SCX0A95	71
1SFA184002R9002	P9M-PNNG	56	1SFA184070R9001	P9M-ER3RN	59	1SFA184482R9006	P9M-SCX0Z95	71
1SFA184003R9003	P9M-PNGG	56	1SFA184071R9001	P9M-ER4RN	59	1SFA184491R9101	P9M-PLRGD	58
1SFA184006R9004	P9M-PNLG	56	1SFA184073R9001	P9M-EC4RN95	59	1SFA184492R9102	P9M-PLVGD	58
1SFA184007R9005	P9M-PNBG	56	1SFA184110R9006	P9M-SMD0N	62	1SFA184493R9103	P9M-PLGGD	58
1SFA184008R9007	P9M-PNHG	56	1SFA184111R9001	P9M-SMD0R	62	1SFA184495R9109	P9M-PLAGD	58
1SFA184010R9006	P9M-PNNS	56	1SFA184120R9006	P9M-SMI0N	62	1SFA184496R9104	P9M-PLLGD	58
1SFA184011R9001	P9M-PNRS	56	1SFA184123R9003	P9M-SMI0G	62	1SFA184497R9105	P9M-PLBGD	58
1SFA184012R9002	P9M-PNVS	56	1SFA184140R9006	P9M-SMD5N	62	1SFA184498R9108	P9M-PLIGD	58
1SFA184016R9004	P9M-PNLS	56	1SFA184141R9001	P9M-SMD5R	62	1SFA184501R9101	P9M-PLRSD	58
1SFA184017R9005	P9M-PNBS	56	1SFA184143R9003	P9M-SMD5G	62	1SFA184502R9102	P9M-PLVSD	58
1SFA184030R9006	P9M-EM3NN	59	1SFA184150R9006	P9M-SMI5N	62	1SFA184503R9103	P9M-PLGSD	58
1SFA184031R9001	P9M-EM3RN	59	1SFA184151R9001	P9M-SMI5R	62	1SFA184505R9109	P9M-PLASD	58
1SFA184032R9002	P9M-EM3VN	59	1SFA184152R9002	P9M-SMI5V	62	1SFA184506R9104	P9M-PLLSD	58
			1SFA184200R9006	P9M-SMZ0N	64	1SFA184507R9105	P9M-PLBSD	58
			1SFA184201R9001	P9M-SMZ0R	64	1SFA184521R9101	P9M-PLRGV	58
			1SFA184240R9006	P9M-SMZ1N	64	1SFA184522R9102	P9M-PLVGV	58
			1SFA184241R9001	P9M-SMZ1R	64	1SFA184523R9103	P9M-PLGGV	58
			1SFA184280R9006	P9M-SMZ5N	64	1SFA184526R9104	P9M-PLLGV	58
			1SFA184320R9006	P9M-SMZ3N	64	1SFA184527R9105	P9M-PLBGV	58
			1SFA184321R9001	P9M-SMZ3R	64	1SFA184551R9101	P9M-EM4RL	60
			1SFA184340R9006	P9M-SMX5N	66	1SFA184552R9102	P9M-EM4VL	60
			1SFA184350R9006	P9M-SMY0N	67	1SFA184553R9103	P9M-EM4GL	60
			1SFA184351R9001	P9M-SMY0R	67	1SFA184556R9104	P9M-EM4LL	60
			1SFA184360R9006	P9M-SMW0N	67	1SFA184561R9101	P9M-ET4RL1	60
			1SFA184370R9006	P9M-SVD0N	62	1SFA184562R9102	P9M-ET4VL1	60
			1SFA184371R9006	P9M-SVI0N	62	1SFA184563R9103	P9M-ET4GL1	60
			1SFA184373R9006	P9M-SVD5N	62	1SFA184566R9104	P9M-ET4LL1	60
			1SFA184374R9006	P9M-SVI5N	62	1SFA184591R9101	P9M-SLD0R	63
			1SFA184379R9006	P9M-SVZ0N	64	1SFA184592R9102	P9M-SLD0V	63
			1SFA184383R9006	P9M-SVZ1N	64	1SFA184593R9103	P9M-SLD0G	63
			1SFA184387R9006	P9M-SVZ5N	64	1SFA184595R9109	P9M-SLD0A	63
			1SFA184391R9006	P9M-SVZ3N	64	1SFA184596R9104	P9M-SLD0L	63
			1SFA184392R9006	P9M-SVX0N	66	1SFA184597R9105	P9M-SLD0B	63
			1SFA184393R9006	P9M-SVX5N	66	1SFA184598R9108	P9M-SLD0I	63
			1SFA184397R9006	P9M-SMX0N	66	1SFA184601R9101	P9M-SLZ0R	65
			1SFA184400R9006	P9M-SCD0A95	68	1SFA184602R9102	P9M-SLZ0V	65
			1SFA184401R9006	P9M-SCD0E95	68	1SFA184603R9103	P9M-SLZ0G	65
			1SFA184402R9006	P9M-SCD0K95	68	1SFA184605R9109	P9M-SLZ0A	65
			1SFA184403R9006	P9M-SCI0C95	68	1SFA184606R9104	P9M-SLZ0L	65
			1SFA184404R9006	P9M-SCI0E95	68	1SFA184607R9105	P9M-SLZ0B	65
			1SFA184405R9006	P9M-SCI0N95	68	1SFA184611R9101	P9M-SLZ1R	65

Index

Order code classification

Order code	Type	Page	Order code	Type	Page	Order code	Type	Page
1SFA184612R9102	P9M-SLZ1V	65	1SFA187003R8110	P9B-01VR	76	1SFA187210R9501	P9M-PNRS029	57
1SFA184613R9103	P9M-SLZ1G	65	1SFA187004R8201	P9B-10VA	76	1SFA187235R9506	P9M-PNNS032	57
1SFA184616R9104	P9MSLZ1L	65	1SFA187008R8020	P9B-02VN	76	1SFA187250R9506	P9M-PNNS029	57
1SFA184617R9105	P9M-SLZ1B	65	1SFA187009R8002	P9B-20VN	76	1SFA187490R8000	P9A-RCST	80
1SFA184621R9101	P9M-SLZ5R	65	1SFA187012R8310	P9B-01FN	76	1SFA187495R8000	P9A-RSGMN	73
1SFA184622R9102	P9M-SLZ5V	65	1SFA187013R8301	P9B-10FN	76	1SFA187496R8000	P9A-RSGMB	73
1SFA184626R9104	P9M-SLZ5L	65	1SFA187020R1080	P9P-DNVO	77	1SFA187840R8000	P9A-CRCL	80
1SFA184628R9108	P9M-SLZ5I	65	1SFA187027R8000	P9P-DTVO	77	1SFA187841R8000	P9A-CFS3	76
1SFA184631R9101	P9M-SLZ3R	65	1SFA187055R1300	P9P-DNFO	77	1SFA187842R8000	P9A-CFS5	76
1SFA184632R9102	P9M-SLZ3V	65	1SFA187110R9501	P9M-PNRRG029	57	1SFA187843R8000	P9A-CDPP	56, 58, 80
1SFA184633R9103	P9M-SLZ3G	65	1SFA187111R9506	P9M-PNNG028	57	1SFA187845R8000	P9A-CWAF	80
1SFA184635R9109	P9M-SLZ3A	65	1SFA187112R9502	P9M-PNVG028	57	1SFA188043R8000	P9A-RSCMN	73
1SFA184636R9104	P9M-SLZ3L	65	1SFA187117R9506	P9M-PNNG006	57	1SFA188044R8000	P9A-RSCMB	73
1SFA184637R9105	P9M-SLZ3B	65	1SFA187118R9502	P9M-PNVG006	57	1SFA188057R9505	P9M-PNBG030	57
1SFA184638R9108	P9M-SLZ3I	65	1SFA187139R9506	P9M-PNNG002	57	1SFA188801R8000	P9A-RAM32	80
1SFA184641R9101	P9M-SAD0R	63	1SFA187143R9504	P9M-PNLG037	57	1SFA188804R8000	P9A-CA6	80
1SFA184642R9102	P9M-SAD0V	63	1SFA187145R9506	P9M-PNNG030	57	1SFA188886R9506	P9MPNNG085	57
1SFA184646R9104	P9M-SAD0L	63	1SFA187146R9502	P9M-PNVG030	57	1SFA188900R9504	P9M-PNLG007	57
1SFA184647R9105	P9M-SAD0B	63	1SFA187147R9501	P9M-PNRRG201	57	1SFA188908R9506	P9M-PNNG201	57
1SFA184652R9102	P9M-SAZ0V	65	1SFA187149R9502	P9M-PNVG202	57	1SFA192000R9001	P9M-EC4RN01	59
1SFA184657R9105	P9M-SAZ0B	65	1SFA187150R9506	P9M-PNNG029	57	1SFA192012R9001	P9M-EC4RN37	59
1SFA184682R9102	P9M-SAZ3V	65	1SFA187151R9505	P9M-PNBG028	57	1SFA192105R9006	P9M-SCDOA01	68
1SFA184685R9109	P9M-SAZ3A	65	1SFA187152R9505	P9M-PNBG006	57	1SFA192117R9006	P9M-SCDOA37	68
1SFA184687R9105	P9M-SAZ3B	65	1SFA187160R1005	BA9S-6LEDB	78, 106	1SFA192120R9006	P9M-SCDOE01	68
1SFA184691R9006	P9M-PS22G	75	1SFA187161R1003	BA9S-6LEDG	78, 106	1SFA192135R9006	P9M-SCDOK01	68
1SFA184693R9006	P9M-PS34G	75	1SFA187162R1004	BA9S-6LEDL	78, 106	1SFA192147R9006	P9M-SCDOK37	68
1SFA184695R9006	P9M-CD	74	1SFA187163R1001	BA9S-6LEDR	78, 106	1SFA192150R9006	P9M-SCIO0C01	68
1SFA184696R9006	P9M-CB	74	1SFA187164R1002	BA9S-6LEDV	78, 106	1SFA192162R9006	P9M-SCIO0C37	68
1SFA184697R9006	P9M-CC	74	1SFA187165R1015	BA9S-12LEDB	78, 106	1SFA192165R9006	P9M-SCIOE01	68
1SFA184700R9006	P9M-MN2F	72	1SFA187166R1013	BA9S-12LEDG	78, 106	1SFA192240R9006	P9M-SCD5A01	68
1SFA184701R9006	P9M-MN2T	72	1SFA187167R1014	BA9S-12LEDL	78, 106	1SFA192250R9006	P9MSCD5A33	68
1SFA184702R9006	P9M-MN2A	72	1SFA187168R1011	BA9S-12LEDR	78, 106	1SFA192252R9006	P9M-SCD5A37	68
1SFA184703R9006	P9M-MN2B	72	1SFA187169R1012	BA9S-12LEDV	78, 106	1SFA192255R9006	P9M-SCI5C01	68
1SFA184709R9006	P9M-MB2FG	72	1SFA187170R1025	BA9S-24LEDB	78, 106	1SFA192267R9006	P9M-SCI5C37	68
1SFA184710R9006	P9M-MB2F	72	1SFA187171R1023	BA9S-24LEDG	78, 106	1SFA192690R9006	P9M-SCZ0T01	69
1SFA184711R9006	P9M-MB2T	72	1SFA187172R1024	BA9S-24LEDL	78, 106	1SFA192702R9006	P9M-SCZ0T37	69
1SFA184712R9006	P9M-MB2A	72	1SFA187173R1021	BA9S-24LEDR	78, 106	1SFA193020R9006	P9M-SCZ5A01	70
1SFA184716R9006	P9M-MN4TG	72	1SFA187174R1022	BA9S-24LEDV	78, 106	1SFA193050R9006	P9M-SCZ5H01	70
1SFA184720R9006	P9M-MN4F	72	1SFA187175R1035	BA9S-48LEDB	78, 106	1SFA193110R9006	P9M-SCZ3C01	70
1SFA184721R9006	P9M-MN4T	72	1SFA187176R1033	BA9S-48LEDG	78, 106	1SFA193335R9006	P9M-SCX0Z01	71
1SFA184740R9006	P9M-MB4F	72	1SFA187177R1034	BA9S-48LEDL	78, 106	1SFA197001R1015	P9P-LNVDB	79
1SFA184741R9006	P9M-MB4T	72	1SFA187178R1031	BA9S-48LEDR	78, 106	1SFA197002R1013	P9P-LNVVG	79
1SFA184744R9006	P9M-MB4TG	72	1SFA187179R1032	BA9S-48LEDV	78, 106	1SFA197003R1014	P9P-LNVDL	79
1SFA184791R9001	P9M-LRD	61	1SFA187180R1045	BA9S-110LEDB	78, 106	1SFA197004R1011	P9P-LNVDR	79
1SFA184792R9002	P9M-LVD	61	1SFA187181R1043	BA9S-110LEDG	78, 106	1SFA197005R1012	P9P-LNVDV	79
1SFA184793R9003	P9M-LGD	61	1SFA187182R1044	BA9S-110LEDL	78, 106	1SFA197007R1045	P9P-LNVJB	79
1SFA184795R9009	P9M-LAD	61	1SFA187183R1041	BA9S-110LEDR	78, 106	1SFA197008R1043	P9P-LNVJG	79
1SFA184796R9004	P9M-LLD	61	1SFA187184R1042	BA9S-110LEDV	78, 106	1SFA197009R1044	P9P-LNVJL	79
1SFA184797R9005	P9M-LBD	61	1SFA187185R1055	BA9S-230LEDB	78, 106	1SFA197010R1041	P9P-LNVJR	79
1SFA184798R9008	P9M-LID	61	1SFA187186R1053	BA9S-230LEDG	78, 106	1SFA197011R1042	P9P-LNVJV	79
1SFA184822R9003	P9M-SVD0G	62	1SFA187187R1054	BA9S-230LEDL	78, 106	1SFA197013R1075	P9P-LNVNB	79
1SFA184856R9001	P9M-SVZ0R	64	1SFA187188R1051	BA9S-230LEDR	78, 106	1SFA197014R1073	P9P-LNVNG	79
1SFA187000R8011	P9B-11VN	76	1SFA187189R1052	BA9S-230LEDV	78, 106	1SFA197015R1074	P9P-LNVNL	79
1SFA187001R8010	P9B-01VN	76	1SFA187190R1045	BA9S-130LED	78, 106	1SFA197016R1071	P9P-LNVNR	79
1SFA187002R8001	P9B-10VN	76	1SFA187191R1045	BA9S-60LED	78, 106			

Index

Order code classification

Order code	Type	Page	Order code	Type	Page	Order code	Type	Page
1SFA197017R1072	P9P-LNVNV	79	1SFA611101R1104	MP2-11L	17	1SFA611103R3101	MP4-31R	18
1SFA197018R1019	P9P-LFVDA	79	1SFA611101R1105	MP2-11W	17	1SFA611103R3102	MP4-31G	18
1SFA197019R1015	P9P-LFVDB	79	1SFA611101R1108	MP2-11C	17	1SFA611103R3104	MP4-31L	18
1SFA197020R1013	P9P-LFVDG	79	1SFA611101R3001	MP2-30R	15	1SFA611103R3108	MP4-31C	18
1SFA197021R1014	P9P-LFVDL	79	1SFA611101R3002	MP2-30G	15	1SFA611124R1001	MPM1-10R	22
1SFA197022R1011	P9P-LFVDR	79	1SFA611101R3003	MP2-30Y	15	1SFA611124R1002	MPM1-10G	22
1SFA197023R1012	P9P-LFVDV	79	1SFA611101R3004	MP2-30L	15	1SFA611124R1003	MPM1-10Y	22
1SFA197025R1045	P9P-LFVJB	79	1SFA611101R3006	MP2-30B	15	1SFA611124R1006	MPM1-10B	22
1SFA197026R1043	P9P-LFVJG	79	1SFA611101R3101	MP2-31R	17	1SFA611124R1101	MPM1-11R	22
1SFA197028R1041	P9P-LFVJR	79	1SFA611101R3102	MP2-31G	17	1SFA611124R1102	MPM1-11G	22
1SFA197031R1075	P9P-LFVNB	79	1SFA611101R3103	MP2-31Y	17	1SFA611124R1103	MPM1-11Y	22
1SFA197032R1073	P9P-LFVNG	79	1SFA611101R3104	MP2-31L	17	1SFA611125R1001	MPM2-10R	22
1SFA197034R1071	P9P-LFVNR	79	1SFA611101R3105	MP2-31W	17	1SFA611125R1003	MPM2-10Y	22
1SFA205236R8020	P9B-02VN-AA	76	1SFA611101R3108	MP2-31C	17	1SFA611125R1006	MPM2-10B	22
1SFA215831R1000	P9P-DNV0-AA	77	1SFA611102R1001	MP3-10R	16	1SFA611125R1101	MPM2-11R	22
1SFA215832R8001	P9B-10VN-AA	76	1SFA611102R1002	MP3-10G	16	1SFA611125R1103	MPM2-11Y	22
1SFA215834R1300	P9P-DNF0-AA	77	1SFA611102R1003	MP3-10Y	16	1SFA611130R1101	MPD1-11R	20
1SFA215835R8301	P9B-10FN-AA	76	1SFA611102R1004	MP3-10L	16	1SFA611130R1102	MPD1-11G	20
1SFA242712R8011	P9B-11VN-AA	76	1SFA611102R1005	MP3-10W	16	1SFA611130R1103	MPD1-11Y	20
1SFA611100R1001	MP1-10R	15	1SFA611102R1006	MP3-10B	16	1SFA611130R1106	MPD1-11B	19
1SFA611100R1002	MP1-10G	15	1SFA611102R1008	MP3-10C	16	1SFA611130R1108	MPD1-11C	20
1SFA611100R1003	MP1-10Y	15	1SFA611102R1101	MP3-11R	18	1SFA611131R1101	MPD2-11R	20
1SFA611100R1004	MP1-10L	15	1SFA611102R1102	MP3-11G	18	1SFA611131R1102	MPD2-11G	20
1SFA611100R1005	MP1-10W	15	1SFA611102R1103	MP3-11Y	18	1SFA611131R1103	MPD2-11Y	20
1SFA611100R1006	MP1-10B	15	1SFA611102R1104	MP3-11L	18	1SFA611131R1106	MPD2-11B	19
1SFA611100R1008	MP1-10C	15	1SFA611102R1105	MP3-11W	18	1SFA611131R1108	MPD2-11C	20
1SFA611100R1101	MP1-11R	17	1SFA611102R1108	MP3-11C	18	1SFA611132R1101	MPD3-11R	20
1SFA611100R1102	MP1-11G	17	1SFA611102R3001	MP3-30R	16	1SFA611132R1102	MPD3-11G	20
1SFA611100R1103	MP1-11Y	17	1SFA611102R3002	MP3-30G	16	1SFA611132R1103	MPD3-11Y	20
1SFA611100R1104	MP1-11L	17	1SFA611102R3003	MP3-30Y	16	1SFA611132R1106	MPD3-11B	19
1SFA611100R1105	MP1-11W	17	1SFA611102R3004	MP3-30L	16	1SFA611132R1108	MPD3-11C	20
1SFA611100R1108	MP1-11C	17	1SFA611102R3005	MP3-30W	16	1SFA611133R1101	MPD4-11R	20
1SFA611100R3001	MP1-30R	15	1SFA611102R3006	MP3-30B	16	1SFA611133R1102	MPD4-11G	20
1SFA611100R3002	MP1-30G	15	1SFA611102R3008	MP3-30C	16	1SFA611133R1103	MPD4-11Y	20
1SFA611100R3003	MP1-30Y	15	1SFA611102R3101	MP3-31R	18	1SFA611133R1106	MPD4-11B	19
1SFA611100R3004	MP1-30L	15	1SFA611102R3102	MP3-31G	18	1SFA611133R1108	MPD4-11C	20
1SFA611100R3005	MP1-30W	15	1SFA611102R3103	MP3-31Y	18	1SFA611134R1101	MPD5-11R	20
1SFA611100R3006	MP1-30B	15	1SFA611102R3104	MP3-31L	18	1SFA611134R1102	MPD5-11G	20
1SFA611100R3008	MP1-30C	15	1SFA611102R3105	MP3-31W	18	1SFA611134R1103	MPD5-11Y	20
1SFA611100R3101	MP1-31R	17	1SFA611102R3108	MP3-31C	18	1SFA611134R1106	MPD5-11B	19
1SFA611100R3102	MP1-31G	17	1SFA611103R1001	MP4-10R	16	1SFA611134R1108	MPD5-11C	20
1SFA611100R3103	MP1-31Y	17	1SFA611103R1002	MP4-10G	16	1SFA611135R1102	MPD6-11G	20
1SFA611100R3104	MP1-31L	17	1SFA611103R1003	MP4-10Y	16	1SFA611135R1106	MPD6-11B	19
1SFA611100R3105	MP1-31W	17	1SFA611103R1004	MP4-10L	16	1SFA611135R1108	MPD6-11C	20
1SFA611100R3108	MP1-31C	17	1SFA611103R1005	MP4-10W	16	1SFA611136R1102	MPD7-11G	20
1SFA611101R1001	MP2-10R	15	1SFA611103R1006	MP4-10B	16	1SFA611136R1106	MPD7-11B	19
1SFA611101R1002	MP2-10G	15	1SFA611103R1008	MP4-10C	16	1SFA611137R1102	MPD8-11G	20
1SFA611101R1003	MP2-10Y	15	1SFA611103R1101	MP4-11R	18	1SFA611137R1106	MPD8-11B	19
1SFA611101R1004	MP2-10L	15	1SFA611103R1102	MP4-11G	18	1SFA611137R1108	MPD8-11C	20
1SFA611101R1005	MP2-10W	15	1SFA611103R1103	MP4-11Y	18	1SFA611138R1106	MPD9-11B	19
1SFA611101R1006	MP2-10B	15	1SFA611103R1104	MP4-11L	18	1SFA611141R1101	MPD12-11R	21
1SFA611101R1008	MP2-10C	15	1SFA611103R1105	MP4-11W	18	1SFA611141R1102	MPD12-11G	21
1SFA611101R1101	MP2-11R	17	1SFA611103R1108	MP4-11C	18	1SFA611141R1103	MPD12-11Y	21
1SFA611101R1102	MP2-11G	17	1SFA611103R3002	MP4-30G	16	1SFA611141R1106	MPD12-11B	19
1SFA611101R1103	MP2-11Y	17	1SFA611103R3006	MP4-30B	16	1SFA611141R1108	MPD12-11C	21

Index

Order code classification

Order code	Type	Page
1SFA611142R1101	MPD13-11R	21
1SFA611142R1102	MPD13-11G	21
1SFA611142R1103	MPD13-11Y	21
1SFA611142R1106	MPD13-11B	19
1SFA611142R1108	MPD13-11C	21
1SFA611143R1101	MPD14-11R	21
1SFA611143R1102	MPD14-11G	21
1SFA611143R1103	MPD14-11Y	21
1SFA611143R1106	MPD14-11B	19
1SFA611143R1108	MPD14-11C	21
1SFA611144R1101	MPD15-11R	21
1SFA611144R1102	MPD15-11G	21
1SFA611144R1103	MPD15-11Y	21
1SFA611144R1106	MPD15-11B	19
1SFA611144R1108	MPD15-11C	21
1SFA611145R1101	MPD16-11R	21
1SFA611145R1102	MPD16-11G	21
1SFA611145R1103	MPD16-11Y	21
1SFA611145R1106	MPD16-11B	19
1SFA611145R1108	MPD16-11C	21
1SFA611146R1102	MPD17-11G	21
1SFA611146R1103	MPD17-11Y	21
1SFA611146R1106	MPD17-11B	19
1SFA611146R1108	MPD17-11C	21
1SFA611147R1106	MPD18-11B	19
1SFA611148R1102	MPD19-11G	21
1SFA611148R1106	MPD19-11B	19
1SFA611148R1108	MPD19-11C	21
1SFA611200R1001	M2SS1-10R	26
1SFA611200R1006	M2SS1-10B	26
1SFA611200R1007	M2SS1-10U	26
1SFA611200R1101	M2SS1-11R	32
1SFA611200R1102	M2SS1-11G	32
1SFA611200R1103	M2SS1-11Y	32
1SFA611200R1104	M2SS1-11L	32
1SFA611200R1108	M2SS1-11C	32
1SFA611200R3001	M2SS1-30R	26
1SFA611200R3006	M2SS1-30B	26
1SFA611200R3101	M2SS1-31R	32
1SFA611200R3102	M2SS1-31G	32
1SFA611200R3103	M2SS1-31Y	32
1SFA611200R3108	M2SS1-31C	32
1SFA611201R1001	M2SS2-10R	26
1SFA611201R1006	M2SS2-10B	26
1SFA611201R1007	M2SS2-10U	26
1SFA611201R1101	M2SS2-11R	32
1SFA611201R1102	M2SS2-11G	32
1SFA611201R1103	M2SS2-11Y	32
1SFA611201R1104	M2SS2-11L	32
1SFA611201R1108	M2SS2-11C	32
1SFA611201R3001	M2SS2-30R	26
1SFA611201R3006	M2SS2-30B	26
1SFA611201R3007	M2SS2-30U	26
1SFA611201R3101	M2SS2-31R	32
1SFA611201R3102	M2SS2-31G	32

Order code	Type	Page
1SFA611201R3103	M2SS2-31Y	32
1SFA611201R3104	M2SS2-31L	32
1SFA611201R3108	M2SS2-31C	32
1SFA611202R1001	M2SS3-10R	26
1SFA611202R1006	M2SS3-10B	26
1SFA611202R1007	M2SS3-10U	26
1SFA611202R1101	M2SS3-11R	32
1SFA611202R1102	M2SS3-11G	32
1SFA611202R1103	M2SS3-11Y	32
1SFA611202R1104	M2SS3-11L	32
1SFA611202R1108	M2SS3-11C	32
1SFA611202R3001	M2SS3-30R	26
1SFA611202R3006	M2SS3-30B	26
1SFA611202R3101	M2SS3-31R	32
1SFA611202R3102	M2SS3-31G	32
1SFA611202R3103	M2SS3-31Y	32
1SFA611202R3108	M2SS3-31C	32
1SFA611203R1001	M2SS4-10R	27
1SFA611203R1006	M2SS4-10B	27
1SFA611203R1007	M2SS4-10U	27
1SFA611203R1101	M2SS4-11R	33
1SFA611203R1102	M2SS4-11G	33
1SFA611203R1103	M2SS4-11Y	33
1SFA611203R1104	M2SS4-11L	33
1SFA611203R1108	M2SS4-11C	33
1SFA611203R3006	M2SS4-30B	27
1SFA611203R3102	M2SS4-31G	33
1SFA611203R3108	M2SS4-31C	33
1SFA611204R1001	M2SS5-10R	27
1SFA611204R1006	M2SS5-10B	27
1SFA611204R1007	M2SS5-10U	27
1SFA611204R1101	M2SS5-11R	33
1SFA611204R1102	M2SS5-11G	33
1SFA611204R1103	M2SS5-11Y	33
1SFA611204R1104	M2SS5-11L	33
1SFA611204R1108	M2SS5-11C	33
1SFA611204R3001	M2SS5-30R	27
1SFA611204R3006	M2SS5-30B	27
1SFA611204R3101	M2SS5-31R	33
1SFA611204R3102	M2SS5-31G	33
1SFA611204R3103	M2SS5-31Y	33
1SFA611204R3104	M2SS5-31L	33
1SFA611204R3108	M2SS5-31C	33
1SFA611205R1001	M2SS6-10R	27
1SFA611205R1006	M2SS6-10B	27
1SFA611205R1007	M2SS6-10U	27
1SFA611205R1101	M2SS6-11R	33
1SFA611205R1102	M2SS6-11G	33
1SFA611205R1103	M2SS6-11Y	33
1SFA611205R1104	M2SS6-11L	33
1SFA611205R1108	M2SS6-11C	33
1SFA611205R3006	M2SS6-30B	27
1SFA611205R3108	M2SS6-31C	33
1SFA611210R1001	M3SS1-10R	28
1SFA611210R1006	M3SS1-10B	28

Order code	Type	Page
1SFA611210R1007	M3SS1-10U	28
1SFA611210R1101	M3SS1-11R	34
1SFA611210R1102	M3SS1-11G	34
1SFA611210R1103	M3SS1-11Y	34
1SFA611210R1104	M3SS1-11L	34
1SFA611210R1108	M3SS1-11C	34
1SFA611210R3001	M3SS1-30R	28
1SFA611210R3006	M3SS1-30B	28
1SFA611210R3007	M3SS1-30U	28
1SFA611210R3101	M3SS1-31R	34
1SFA611210R3102	M3SS1-31G	34
1SFA611210R3103	M3SS1-31Y	34
1SFA611210R3104	M3SS1-31L	34
1SFA611210R3108	M3SS1-31C	34
1SFA611211R1001	M3SS2-10R	28
1SFA611211R1006	M3SS2-10B	28
1SFA611211R1007	M3SS2-10U	28
1SFA611211R1101	M3SS2-11R	34
1SFA611211R1102	M3SS2-11G	34
1SFA611211R1103	M3SS2-11Y	34
1SFA611211R1104	M3SS2-11L	34
1SFA611211R1108	M3SS2-11C	34
1SFA611211R3001	M3SS2-30R	28
1SFA611211R3006	M3SS2-30B	28
1SFA611211R3101	M3SS2-31R	34
1SFA611211R3102	M3SS2-31G	34
1SFA611211R3104	M3SS2-31L	34
1SFA611211R3108	M3SS2-31C	34
1SFA611212R1001	M3SS3-10R	28
1SFA611212R1006	M3SS3-10B	28
1SFA611212R1007	M3SS3-10U	28
1SFA611212R1101	M3SS3-11R	34
1SFA611212R1102	M3SS3-11G	34
1SFA611212R1103	M3SS3-11Y	34
1SFA611212R1104	M3SS3-11L	34
1SFA611212R1108	M3SS3-11C	34
1SFA611212R3006	M3SS3-30B	28
1SFA611212R3108	M3SS3-31C	34
1SFA611213R1001	M3SS4-10R	29
1SFA611213R1006	M3SS4-10B	29
1SFA611213R1007	M3SS4-10U	29
1SFA611213R1101	M3SS4-11R	35
1SFA611213R1102	M3SS4-11G	35
1SFA611213R1103	M3SS4-11Y	35
1SFA611213R1104	M3SS4-11L	35
1SFA611213R1108	M3SS4-11C	35
1SFA611213R3006	M3SS4-30B	29
1SFA611213R3101	M3SS4-31R	35
1SFA611213R3108	M3SS4-31C	35
1SFA611214R1001	M3SS5-10R	29
1SFA611214R1006	M3SS5-10B	29
1SFA611214R1007	M3SS5-10U	29
1SFA611214R1101	M3SS5-11R	35
1SFA611214R1102	M3SS5-11G	35
1SFA611214R1103	M3SS5-11Y	35

Index

Order code classification

Order code	Type	Page	Order code	Type	Page	Order code	Type	Page
1SFA611214R1104	M3SS5-11L	35	1SFA611280R1004	M2SSK1-104	36	1SFA611291R4006	M4SS2-10B	31
1SFA611214R1108	M3SS5-11C	35	1SFA611280R3001	M2SSK1-301	36	1SFA611291R6001	M4SS2-30R	31
1SFA611214R3001	M3SS5-30R	29	1SFA611280R3002	M2SSK1-302	36	1SFA611291R6006	M4SS2-30B	31
1SFA611214R3006	M3SS5-30B	29	1SFA611280R3003	M2SSK1-303	36	1SFA611300R1006	MTS1-10B	42
1SFA611214R3102	M3SS5-31G	35	1SFA611280R3004	M2SSK1-304	36	1SFA611300R3006	MTS1-30B	42
1SFA611214R3108	M3SS5-31C	35	1SFA611281R1001	M2SSK2-101	36	1SFA611301R1006	MTS2-10B	42
1SFA611215R1001	M3SS6-10R	29	1SFA611281R1002	M2SSK2-102	36	1SFA611301R3006	MTS2-30B	42
1SFA611215R1006	M3SS6-10B	29	1SFA611281R1003	M2SSK2-103	36	1SFA611302R1006	MTS3-10B	42
1SFA611215R1007	M3SS6-10U	29	1SFA611281R1004	M2SSK2-104	36	1SFA611302R3006	MTS3-30B	42
1SFA611215R1101	M3SS6-11R	35	1SFA611281R3001	M2SSK2-301	36	1SFA611400R1001	ML1-100R	25
1SFA611215R1102	M3SS6-11G	35	1SFA611281R3002	M2SSK2-302	36	1SFA611400R1002	ML1-100G	25
1SFA611215R1103	M3SS6-11Y	35	1SFA611281R3003	M2SSK2-303	36	1SFA611400R1003	ML1-100Y	25
1SFA611215R1104	M3SS6-11L	35	1SFA611281R3004	M2SSK2-304	36	1SFA611400R1004	ML1-100L	25
1SFA611215R1108	M3SS6-11C	35	1SFA611282R1001	M2SSK3-101	36	1SFA611400R1005	ML1-100W	25
1SFA611215R3006	M3SS6-30B	29	1SFA611282R1002	M2SSK3-102	36	1SFA611400R1008	ML1-100C	25
1SFA611215R3104	M3SS6-31L	35	1SFA611282R1003	M2SSK3-103	36	1SFA611410R1006	MT-1B	38
1SFA611216R1001	M3SS7-10R	28	1SFA611282R1004	M2SSK3-104	36	1SFA611410R1056	MT-105B	38
1SFA611216R1006	M3SS7-10B	28	1SFA611282R3001	M2SSK3-301	36	1SFA611410R1106	MT-110B	38
1SFA611216R1007	M3SS7-10U	28	1SFA611282R3002	M2SSK3-302	36	1SFA611410R1506	MT-150B	38
1SFA611216R1101	M3SS7-11R	34	1SFA611282R3003	M2SSK3-303	36	1SFA611410R3006	MT-3B	38
1SFA611216R1102	M3SS7-11G	34	1SFA611282R3004	M2SSK3-304	36	1SFA611410R3056	MT-305B	38
1SFA611216R1103	M3SS7-11Y	34	1SFA611283R1001	M3SSK1-101	37	1SFA611410R3106	MT-310B	38
1SFA611216R1104	M3SS7-11L	34	1SFA611283R1002	M3SSK1-102	37	1SFA611410R3506	MT-350B	38
1SFA611216R1108	M3SS7-11C	34	1SFA611283R1003	M3SSK1-103	37	1SFA611510R1101	MPMT3-11R	23
1SFA611216R3006	M3SS7-30B	28	1SFA611283R1004	M3SSK1-104	37	1SFA611511R1101	MPMP3-11R	23
1SFA611216R3102	M3SS7-31G	34	1SFA611283R3001	M3SSK1-301	37	1SFA611513R1001	MPMT4-10R	23
1SFA611216R3108	M3SS7-31C	34	1SFA611283R3002	M3SSK1-302	37	1SFA611513R1101	MPMT4-11R	23
1SFA611217R1001	M3SS8-10R	29	1SFA611283R3003	M3SSK1-303	37	1SFA611514R1001	MPMP4-10R	23
1SFA611217R1006	M3SS8-10B	29	1SFA611283R3004	M3SSK1-304	37	1SFA611514R1101	MPMP4-11R	23
1SFA611217R1007	M3SS8-10U	29	1SFA611284R1001	M3SSK2-101	37	1SFA611520R1001	MPET3-10R	23
1SFA611217R1101	M3SS8-11R	35	1SFA611284R1002	M3SSK2-102	37	1SFA611520R1006	MPET3-10B	24
1SFA611217R1102	M3SS8-11G	35	1SFA611284R1003	M3SSK2-103	37	1SFA611521R1001	MPEP3-10R	23
1SFA611217R1103	M3SS8-11Y	35	1SFA611284R1004	M3SSK2-104	37	1SFA611521R1006	MPEP3-10B	24
1SFA611217R1104	M3SS8-11L	35	1SFA611284R3001	M3SSK2-301	37	1SFA611522R1101	MPEK3-11R	23
1SFA611217R1108	M3SS8-11C	35	1SFA611285R1001	M3SSK3-101	37	1SFA611522R1106	MPEK3-11B	24
1SFA611217R3006	M3SS8-30B	29	1SFA611285R1002	M3SSK3-102	37	1SFA611522R1201	MPEK3-12R	23
1SFA611217R3101	M3SS8-31R	35	1SFA611285R1003	M3SSK3-103	37	1SFA611522R1301	MPEK3-13R	23
1SFA611217R3102	M3SS8-31G	35	1SFA611285R1004	M3SSK3-104	37	1SFA611523R1001	MPET4-10R	23
1SFA611220R1006	M2SSV1-10B	129	1SFA611285R3001	M3SSK3-301	37	1SFA611523R1006	MPET4-10B	24
1SFA611221R1006	M2SSV2-10B	129	1SFA611285R3002	M3SSK3-302	37	1SFA611524R1001	MPEP4-10R	23
1SFA611222R1006	M2SSV3-10B	129	1SFA611285R3003	M3SSK3-303	37	1SFA611524R1006	MPEP4-10B	24
1SFA611230R1006	M3SSV1-10B	129	1SFA611286R1001	M3SSK4-101	37	1SFA611525R1101	MPEK4-11R	23
1SFA611231R1006	M3SSV2-10B	129	1SFA611286R1002	M3SSK4-102	37	1SFA611525R1106	MPEK4-11B	24
1SFA611232R1006	M3SSV3-10B	129	1SFA611286R3001	M3SSK4-301	37	1SFA611525R1201	MPEK4-12R	23
1SFA611250R1006	M3SSC1-10B	30	1SFA611286R3002	M3SSK4-302	37	1SFA611525R1301	MPEK4-13R	23
1SFA611250R3006	M3SSC1-30B	30	1SFA611287R1001	M3SSK5-101	37	1SFA611601R1100	MCBH5-00	44
1SFA611251R1006	M3SSC2-10B	30	1SFA611287R1003	M3SSK5-103	37	1SFA611605R1100	MCBH-00	44
1SFA611251R3006	M3SSC2-30B	30	1SFA611287R3001	M3SSK5-301	37	1SFA611610R1001	MCB-10	44
1SFA611252R1006	M3SSC3-10B	30	1SFA611288R1001	M3SSK6-101	37	1SFA611610R1002	MCB-20	44
1SFA611252R3006	M3SSC3-30B	30	1SFA611289R1001	M2SSK4-101	36	1SFA611610R1010	MCB-01	44
1SFA611256R1006	M3SSC7-10B	30	1SFA611290R4001	M4SS1-10R	31	1SFA611610R1011	MCB-11	44
1SFA611256R3006	M3SSC7-30B	30	1SFA611290R4006	M4SS1-10B	31	1SFA611610R1020	MCB-02	44
1SFA611280R1001	M2SSK1-101	36	1SFA611290R6001	M4SS1-30R	31	1SFA611610R1101	MCB-10G	44
1SFA611280R1002	M2SSK1-102	36	1SFA611290R6006	M4SS1-30B	31	1SFA611610R1102	MCB-20G	44
1SFA611280R1003	M2SSK1-103	36	1SFA611291R4001	M4SS2-10R	31	1SFA611610R1110	MCB-01G	44

Index

Order code classification

Order code	Type	Page	Order code	Type	Page	Order code	Type	Page
1SFA611610R1111	MCB-11G	44	1SFA611621R1085	MLBL-08W	46	1SFA611621R2085	MLBL-08BW	126
1SFA611610R1120	MCB-02G	44	1SFA611621R1091	MLBL-09R	46	1SFA611621R2091	MLBL-09BR	126
1SFA611610R2001	MCB-10B	124	1SFA611621R1092	MLBL-09G	46	1SFA611621R2092	MLBL-09BG	126
1SFA611610R2002	MCB-20B	124	1SFA611621R1093	MLBL-09Y	46	1SFA611621R2093	MLBL-09BY	126
1SFA611610R2010	MCB-01B	124	1SFA611621R1094	MLBL-09L	46	1SFA611621R2094	MLBL-09BL	126
1SFA611610R2011	MCB-11B	124	1SFA611621R1095	MLBL-09W	46	1SFA611621R2095	MLBL-09BW	126
1SFA611610R2020	MCB-02B	124						
1SFA611610R2101	MCB-10BG	124						
1SFA611610R2110	MCB-01BG	124						
1SFA611612R1001	MCBL-01	44						
1SFA611612R1010	MCBL-10	44						
1SFA611621R1001	MLBL-00R	45	1SFA611621R2001	MLBL-00BR	125	1SFA611630R1002	MDB-2	48
1SFA611621R1002	MLBL-00G	45	1SFA611621R2002	MLBL-00BG	125	1SFA611701R4006	MJS1-40B	41
1SFA611621R1003	MLBL-00Y	45	1SFA611621R2003	MLBL-00BY	125	1SFA611701R6006	MJS1-60B	41
1SFA611621R1004	MLBL-00L	45	1SFA611621R2004	MLBL-00BL	125	1SFA611702R4006	MJS2-40B	41
1SFA611621R1005	MLBL-00W	45	1SFA611621R2005	MLBL-00BW	125	1SFA611702R6006	MJS2-60B	41
1SFA611621R1011	MLBL-01R	45	1SFA611621R2011	MLBL-01BR	125	1SFA611703R4006	MJS3-40B	41
1SFA611621R1012	MLBL-01G	45	1SFA611621R2012	MLBL-01BG	125	1SFA611703R6006	MJS3-60B	41
1SFA611621R1013	MLBL-01Y	45	1SFA611621R2013	MLBL-01BY	125	1SFA611704R4006	MJS4-40B	41
1SFA611621R1014	MLBL-01L	45	1SFA611621R2014	MLBL-01BL	125	1SFA611704R6006	MJS4-60B	41
1SFA611621R1015	MLBL-01W	45	1SFA611621R2015	MLBL-01BW	125	1SFA611705R4006	MJS5-40B	41
1SFA611621R1021	MLBL-02R	45	1SFA611621R2021	MLBL-02BR	125	1SFA611705R6006	MJS5-60B	41
1SFA611621R1022	MLBL-02G	45	1SFA611621R2022	MLBL-02BG	125	1SFA611706R4006	MJS6-40B	41
1SFA611621R1023	MLBL-02Y	45	1SFA611621R2023	MLBL-02BY	125	1SFA611706R6006	MJS6-60B	41
1SFA611621R1024	MLBL-02L	45	1SFA611621R2024	MLBL-02BL	125	1SFA611707R4006	MJS7-40B	41
1SFA611621R1025	MLBL-02W	45	1SFA611621R2025	MLBL-02BW	125	1SFA611707R6006	MJS7-60B	41
1SFA611621R1031	MLBL-03R	45	1SFA611621R2031	MLBL-03BR	125	1SFA611708R4006	MJS8-40B	41
1SFA611621R1032	MLBL-03G	45	1SFA611621R2032	MLBL-03BG	125	1SFA611708R6006	MJS8-60B	41
1SFA611621R1033	MLBL-03Y	45	1SFA611621R2033	MLBL-03BY	125	1SFA611709R4006	MJS9-40B	41
1SFA611621R1034	MLBL-03L	45	1SFA611621R2034	MLBL-03BL	125	1SFA611709R6006	MJS9-60B	41
1SFA611621R1035	MLBL-03W	45	1SFA611621R2035	MLBL-03BW	125	1SFA611710R6006	MJS10-60B	41
1SFA611621R1041	MLBL-04R	45	1SFA611621R2041	MLBL-04BR	125	1SFA611711R4006	MJS11-40B	41
1SFA611621R1042	MLBL-04G	45	1SFA611621R2042	MLBL-04BG	125	1SFA611711R6006	MJS11-60B	41
1SFA611621R1043	MLBL-04Y	45	1SFA611621R2043	MLBL-04BY	125	1SFA611712R4006	MJS12-40B	41
1SFA611621R1044	MLBL-04L	45	1SFA611621R2044	MLBL-04BL	125	1SFA611712R6006	MJS12-60B	41
1SFA611621R1045	MLBL-04W	45	1SFA611621R2045	MLBL-04BW	125	1SFA611811R1000	MEP1-0	123
1SFA611621R1051	MLBL-05R	45	1SFA611621R2051	MLBL-05BR	125	1SFA611812R1000	MEP2-0	123
1SFA611621R1052	MLBL-05G	45	1SFA611621R2052	MLBL-05BG	125	1SFA611812R1001	MEP2-1001	130
1SFA611621R1053	MLBL-05Y	45	1SFA611621R2053	MLBL-05BY	125	1SFA611813R1000	MEP3-0	123
1SFA611621R1054	MLBL-05L	45	1SFA611621R2054	MLBL-05BL	125	1SFA611814R1000	MEP4-0	123
1SFA611621R1055	MLBL-05W	45	1SFA611621R2055	MLBL-05BW	125	1SFA611816R1000	MEP6-0	123
1SFA611621R1061	MLBL-06R	45	1SFA611621R2061	MLBL-06BR	125	1SFA611821R1000	MEPY1-0	123
1SFA611621R1062	MLBL-06G	45	1SFA611621R2062	MLBL-06BG	125	1SFA611821R1035	MEPY1-1035	130
1SFA611621R1063	MLBL-06Y	45	1SFA611621R2063	MLBL-06BY	125	1SFA611821R1040	MEPY1-1040	130
1SFA611621R1064	MLBL-06L	45	1SFA611621R2064	MLBL-06BL	125	1SFA611821R1041	MEPY1-1041	130
1SFA611621R1065	MLBL-06W	45	1SFA611621R2065	MLBL-06BW	125	1SFA611821R1042	MEPY1-1042	130
1SFA611621R1071	MLBL-07R	46	1SFA611621R2071	MLBL-07BR	126	1SFA611920H8150	MA1-8150	124
1SFA611621R1072	MLBL-07G	46	1SFA611621R2072	MLBL-07BG	126	1SFA611920R8001	MA1-8001	48
1SFA611621R1073	MLBL-07Y	46	1SFA611621R2073	MLBL-07BY	126	1SFA611920R8002	MA1-8002	47, 110
1SFA611621R1074	MLBL-07L	46	1SFA611621R2074	MLBL-07BL	126	1SFA611920R8015	MA1-8015	48, 111
1SFA611621R1075	MLBL-07W	46	1SFA611621R2075	MLBL-07BW	126	1SFA611920R8019	MA1-8019	48, 111
1SFA611621R1081	MLBL-08R	46	1SFA611621R2081	MLBL-08BR	126	1SFA611920R8052	MA1-8052	47, 110
1SFA611621R1082	MLBL-08G	46	1SFA611621R2082	MLBL-08BG	126	1SFA611920R8053	MA1-8053	47, 123
1SFA611621R1083	MLBL-08Y	46	1SFA611621R2083	MLBL-08BY	126	1SFA611920R8074	MA1-8074	47, 110
1SFA611621R1084	MLBL-08L	46	1SFA611621R2084	MLBL-08BL	126	1SFA611920R8126	MA1-8126	47

Index

Order code classification

Order code	Type	Page	Order code	Type	Page	Order code	Type	Page
1SFA611920R8128	MA1-8128	47, 123	1SFA611930R1037	MA6-1037	135	1SFA611930R1172	MA6-1172	127
1SFA611920R8129	MA1-8129	124	1SFA611930R1038	MA6-1038	135	1SFA611930R1173	MA6-1173	127
1SFA611920R8130	MA1-8130	124	1SFA611930R1039	MA6-1039	135	1SFA611930R1174	MA6-1174	127
1SFA611920R8131	MA1-8131	48	1SFA611930R1040	MA6-1040	135	1SFA611930R1175	MA6-1175	127
1SFA611920R8136	MA1-8136	124	1SFA611930R1041	MA6-1041	135	1SFA611930R1176	MA6-1176	127
1SFA611920R8137	MA1-8137	41	1SFA611930R1042	MA6-1042	135	1SFA611930R1177	MA6-1177	127
1SFA611920R8138	MA1-8138	41	1SFA611930R1043	MA6-1043	135	1SFA611930R1178	MA6-1178	127
1SFA611920R8139	MA1-8139	19–21	1SFA611930R1044	MA6-1044	135	1SFA611930R1179	MA6-1179	127
1SFA611920R8149	MA1-8149	48, 111	1SFA611930R1045	MA6-1045	135	1SFA611930R1190	MA6-1190	127
1SFA611920R8152	MA1-8152	47, 110	1SFA611930R1047	MA6-1047	135	1SFA611930R1191	MA6-1191	127
1SFA611920R8153	MA1-8153	47, 110	1SFA611930R1054	MA6-1054	135	1SFA611930R1192	MA6-1192	127
1SFA611920R8160	MA1-8160	124	1SFA611930R1058	MA6-1058	135	1SFA611930R1193	MA6-1193	127
1SFA611925R3001	MA5-3001	124	1SFA611930R1060	MA6-1060	127	1SFA611930R1194	MA6-1194	127
1SFA611925R3002	MA5-3002	124	1SFA611930R1061	MA6-1061	127	1SFA611930R1210	MA6-1210	135
1SFA611925R3003	MA5-3003	124	1SFA611930R1062	MA6-1062	127	1SFA611930R1240	MA6-1240	41
1SFA611925R3004	MA5-3004	124	1SFA611930R1063	MA6-1063	127	1SFA611930R1241	MA6-1241	41
1SFA611925R3006	MA5-3006	124	1SFA611930R1064	MA6-1064	127	1SFA611930R1242	MA6-1242	41
1SFA611925R3007	MA5-3007	124	1SFA611930R1065	MA6-1065	127	1SFA611930R1252	MA6-1252	38
1SFA611925R3008	MA5-3008	124	1SFA611930R1070	MA6-1070	135	1SFA611940R1000	MA16-1000	137
1SFA611925R3009	MA5-3009	124	1SFA611930R1071	MA6-1071	135	1SFA611940R1001	MA16-1001	137
1SFA611925R3010	MA5-3010	124	1SFA611930R1073	MA6-1073	135	1SFA616105R4001	KP6-40R	25
1SFA611930R1000	MA6-1000	128	1SFA611930R1074	MA6-1074	135	1SFA616105R4002	KP6-40G	25
1SFA611930R1002	MA6-1002	128	1SFA611930R1075	MA6-1075	135	1SFA616105R4006	KP6-40B	25
1SFA611930R1003	MA6-1003	128	1SFA611930R1076	MA6-1076	135	1SFA616160R1001	KPR1-100R	39
1SFA611930R1004	MA6-1004	128	1SFA611930R1077	MA6-1077	135	1SFA616160R1002	KPR1-100G	39
1SFA611930R1005	MA6-1005	128	1SFA611930R1079	MA6-1079	135	1SFA616160R1003	KPR1-100Y	39
1SFA611930R1006	MA6-1006	128	1SFA611930R1080	MA6-1080	135	1SFA616160R1004	KPR1-100L	39
1SFA611930R1007	MA6-1007	128	1SFA611930R1082	MA6-1082	135	1SFA616160R1005	KPR1-100W	39
1SFA611930R1008	MA6-1008	128	1SFA611930R1083	MA6-1083	135	1SFA616160R1006	KPR1-100B	39
1SFA611930R1009	MA6-1009	128	1SFA611930R1084	MA6-1084	135	1SFA616160R1014	KPR1-101L	39
1SFA611930R1010	MA6-1010	136	1SFA611930R1085	MA6-1085	135	1SFA616160R1015	KPR1-101W	39
1SFA611930R1011	MA6-1011	136	1SFA611930R1086	MA6-1086	135	1SFA616160R1022	KPR1-102G	39
1SFA611930R1012	MA6-1012	128	1SFA611930R1087	MA6-1087	135	1SFA616160R1025	KPR1-102W	39
1SFA611930R1013	MA6-1013	128	1SFA611930R1100	MA6-1100	128	1SFA616160R1035	KPR1-103W	39
1SFA611930R1014	MA6-1014	128	1SFA611930R1101	MA6-1101	128	1SFA616160R1046	KPR1-104B	39
1SFA611930R1015	MA6-1015	128	1SFA611930R1102	MA6-1102	128	1SFA616161R1001	KPR2-100R	39
1SFA611930R1016	MA6-1016	128	1SFA611930R1103	MA6-1103	128	1SFA616161R1006	KPR2-100B	39
1SFA611930R1017	MA6-1017	136	1SFA611930R1104	MA6-1104	128	1SFA616161R1051	KPR2-105R	39
1SFA611930R1018	MA6-1018	136	1SFA611930R1118	MA6-1118	135	1SFA616162R1001	KPR3-100R	40
1SFA611930R1019	MA6-1019	136	1SFA611930R1130	MA6-1130	127	1SFA616162R1002	KPR3-100G	40
1SFA611930R1020	MA6-1020	136	1SFA611930R1131	MA6-1131	127	1SFA616162R1003	KPR3-100Y	40
1SFA611930R1021	MA6-1021	136	1SFA611930R1132	MA6-1132	127	1SFA616162R1004	KPR3-100L	40
1SFA611930R1022	MA6-1022	136	1SFA611930R1133	MA6-1133	127	1SFA616162R1005	KPR3-100W	40
1SFA611930R1023	MA6-1023	136	1SFA611930R1134	MA6-1134	127	1SFA616162R1006	KPR3-100B	40
1SFA611930R1024	MA6-1024	128	1SFA611930R1135	MA6-1135	127	1SFA616162R1014	KPR3-101L	40
1SFA611930R1025	MA6-1025	128	1SFA611930R1136	MA6-1136	127	1SFA616162R1015	KPR3-101W	40
1SFA611930R1026	MA6-1026	128	1SFA611930R1137	MA6-1137	127	1SFA616162R1032	KPR3-103G	40
1SFA611930R1027	MA6-1027	128	1SFA611930R1138	MA6-1138	127	1SFA616162R1046	KPR3-104B	40
1SFA611930R1028	MA6-1028	128	1SFA611930R1139	MA6-1139	127	1SFA616163R1001	KPR4-100R	40
1SFA611930R1029	MA6-1029	128	1SFA611930R1140	MA6-1140	127	1SFA616163R1006	KPR4-100B	40
1SFA611930R1032	MA6-1032	135	1SFA611930R1141	MA6-1141	127	1SFA616163R1051	KPR4-105R	40
1SFA611930R1033	MA6-1033	135	1SFA611930R1152	MA6-1152	127	1SFA616163R1056	KPR4-105B	40
1SFA611930R1034	MA6-1034	135	1SFA611930R1153	MA6-1153	127	1SFA616903R1019	KTC3-1019	138
1SFA611930R1035	MA6-1035	135	1SFA611930R1170	MA6-1170	127	1SFA616903R1020	KTC3-1020	138
1SFA611930R1036	MA6-1036	135	1SFA611930R1171	MA6-1171	127	1SFA616903R9000	KTC3-9000	138

Order code classification

[illegible]

Index

Order code classification

Order code	Type	Page	Order code	Type	Page	Order code	Type	Page
1SFA619100R1014	CP1-10L-10	91	1SFA619100R3073	CP1-30Y-11	91	1SFA619101R3016	CP2-30B-10	92
1SFA619100R1015	CP1-10W-10	91	1SFA619100R3074	CP1-30L-11	91	1SFA619101R3021	CP2-30R-20	92
1SFA619100R1016	CP1-10B-10	91	1SFA619100R3075	CP1-30W-11	91	1SFA619101R3022	CP2-30G-20	92
1SFA619100R1021	CP1-10R-20	91	1SFA619100R3076	CP1-30B-11	91	1SFA619101R3023	CP2-30Y-20	92
1SFA619100R1022	CP1-10G-20	91	1SFA619100R3111	CP1-31R-10	95	1SFA619101R3024	CP2-30L-20	92
1SFA619100R1023	CP1-10Y-20	91	1SFA619100R3112	CP1-31G-10	95	1SFA619101R3025	CP2-30W-20	92
1SFA619100R1024	CP1-10L-20	91	1SFA619100R3113	CP1-31Y-10	95	1SFA619101R3026	CP2-30B-20	92
1SFA619100R1025	CP1-10W-20	91	1SFA619100R3114	CP1-31L-10	95	1SFA619101R3041	CP2-30R-01	92
1SFA619100R1026	CP1-10B-20	91	1SFA619100R3118	CP1-31C-10	95	1SFA619101R3046	CP2-30B-01	92
1SFA619100R1041	CP1-10R-01	91	1SFA619100R3141	CP1-31R-01	95	1SFA619101R3051	CP2-30R-02	92
1SFA619100R1046	CP1-10B-01	91	1SFA619100R3144	CP1-31L-01	95	1SFA619101R3071	CP2-30R-11	92
1SFA619100R1051	CP1-10R-02	91	1SFA619101R1011	CP2-10R-10	92	1SFA619101R3072	CP2-30G-11	92
1SFA619100R1056	CP1-10B-02	91	1SFA619101R1012	CP2-10G-10	92	1SFA619101R3073	CP2-30Y-11	92
1SFA619100R1071	CP1-10R-11	91	1SFA619101R1013	CP2-10Y-10	92	1SFA619101R3076	CP2-30B-11	92
1SFA619100R1072	CP1-10G-11	91	1SFA619101R1014	CP2-10L-10	92	1SFA619102R1011	CP3-10R-10	93
1SFA619100R1073	CP1-10Y-11	91	1SFA619101R1015	CP2-10W-10	92	1SFA619102R1012	CP3-10G-10	93
1SFA619100R1074	CP1-10L-11	91	1SFA619101R1016	CP2-10B-10	92	1SFA619102R1013	CP3-10Y-10	93
1SFA619100R1075	CP1-10W-11	91	1SFA619101R1021	CP2-10R-20	92	1SFA619102R1014	CP3-10L-10	93
1SFA619100R1076	CP1-10B-11	91	1SFA619101R1022	CP2-10G-20	92	1SFA619102R1015	CP3-10W-10	93
1SFA619100R1111	CP1-11R-10	95	1SFA619101R1023	CP2-10Y-20	92	1SFA619102R1016	CP3-10B-10	93
1SFA619100R1112	CP1-11G-10	95	1SFA619101R1024	CP2-10L-20	92	1SFA619102R1021	CP3-10R-20	93
1SFA619100R1113	CP1-11Y-10	95	1SFA619101R1025	CP2-10W-20	92	1SFA619102R1022	CP3-10G-20	93
1SFA619100R1114	CP1-11L-10	95	1SFA619101R1026	CP2-10B-20	92	1SFA619102R1023	CP3-10Y-20	93
1SFA619100R1118	CP1-11C-10	95	1SFA619101R1041	CP2-10R-01	92	1SFA619102R1024	CP3-10L-20	93
1SFA619100R1141	CP1-11R-01	95	1SFA619101R1046	CP2-10B-01	92	1SFA619102R1025	CP3-10W-20	93
1SFA619100R1211	CP1-12R-10	95	1SFA619101R1051	CP2-10R-02	92	1SFA619102R1026	CP3-10B-20	93
1SFA619100R1212	CP1-12G-10	95	1SFA619101R1056	CP2-10B-02	92	1SFA619102R1041	CP3-10R-01	93
1SFA619100R1213	CP1-12Y-10	95	1SFA619101R1071	CP2-10R-11	92	1SFA619102R1046	CP3-10B-01	93
1SFA619100R1214	CP1-12L-10	95	1SFA619101R1072	CP2-10G-11	92	1SFA619102R1051	CP3-10R-02	93
1SFA619100R1218	CP1-12C-10	95	1SFA619101R1073	CP2-10Y-11	92	1SFA619102R1056	CP3-10B-02	93
1SFA619100R1241	CP1-12R-01	95	1SFA619101R1074	CP2-10L-11	92	1SFA619102R1071	CP3-10R-11	93
1SFA619100R1311	CP1-13R-10	95	1SFA619101R1075	CP2-10W-11	92	1SFA619102R1072	CP3-10G-11	93
1SFA619100R1312	CP1-13G-10	95	1SFA619101R1076	CP2-10B-11	92	1SFA619102R1073	CP3-10Y-11	93
1SFA619100R1313	CP1-13Y-10	95	1SFA619101R1111	CP2-11R-10	96	1SFA619102R1074	CP3-10L-11	93
1SFA619100R1314	CP1-13L-10	95	1SFA619101R1112	CP2-11G-10	96	1SFA619102R1075	CP3-10W-11	93
1SFA619100R1318	CP1-13C-10	95	1SFA619101R1113	CP2-11Y-10	96	1SFA619102R1076	CP3-10B-11	93
1SFA619100R1341	CP1-13R-01	95	1SFA619101R1114	CP2-11L-10	96	1SFA619102R1111	CP3-11R-10	97
1SFA619100R3011	CP1-30R-10	91	1SFA619101R1118	CP2-11C-10	96	1SFA619102R1112	CP3-11G-10	97
1SFA619100R3012	CP1-30G-10	91	1SFA619101R1141	CP2-11R-01	96	1SFA619102R1113	CP3-11Y-10	97
1SFA619100R3013	CP1-30Y-10	91	1SFA619101R1211	CP2-12R-10	96	1SFA619102R1114	CP3-11L-10	97
1SFA619100R3014	CP1-30L-10	91	1SFA619101R1212	CP2-12G-10	96	1SFA619102R1118	CP3-11C-10	97
1SFA619100R3015	CP1-30W-10	91	1SFA619101R1213	CP2-12Y-10	96	1SFA619102R1141	CP3-11R-01	97
1SFA619100R3016	CP1-30B-10	91	1SFA619101R1214	CP2-12L-10	96	1SFA619102R1211	CP3-12R-10	97
1SFA619100R3021	CP1-30R-20	91	1SFA619101R1218	CP2-12C-10	96	1SFA619102R1212	CP3-12G-10	97
1SFA619100R3022	CP1-30G-20	91	1SFA619101R1241	CP2-12R-01	96	1SFA619102R1213	CP3-12Y-10	97
1SFA619100R3023	CP1-30Y-20	91	1SFA619101R1311	CP2-13R-10	96	1SFA619102R1214	CP3-12L-10	97
1SFA619100R3024	CP1-30L-20	91	1SFA619101R1312	CP2-13G-10	96	1SFA619102R1218	CP3-12C-10	97
1SFA619100R3025	CP1-30W-20	91	1SFA619101R1313	CP2-13Y-10	96	1SFA619102R1241	CP3-12R-01	97
1SFA619100R3026	CP1-30B-20	91	1SFA619101R1314	CP2-13L-10	96	1SFA619102R1311	CP3-13R-10	97
1SFA619100R3041	CP1-30R-01	91	1SFA619101R1318	CP2-13C-10	96	1SFA619102R1312	CP3-13G-10	97
1SFA619100R3046	CP1-30B-01	91	1SFA619101R1341	CP2-13R-01	96	1SFA619102R1313	CP3-13Y-10	97
1SFA619100R3051	CP1-30R-02	91	1SFA619101R3011	CP2-30R-10	92	1SFA619102R1314	CP3-13L-10	97
1SFA619100R3056	CP1-30B-02	91	1SFA619101R3012	CP2-30G-10	92	1SFA619102R1318	CP3-13C-10	97
1SFA619100R3071	CP1-30R-11	91	1SFA619101R3014	CP2-30L-10	92	1SFA619102R1341	CP3-13R-01	97
1SFA619100R3072	CP1-30G-11	91	1SFA619101R3015	CP2-30W-10	92	1SFA619102R3012	CP3-30G-10	93

Index

Order code classification

Order code	Type	Page
1SFA619102R3015	CP3-30W-10	93
1SFA619102R3016	CP3-30B-10	93
1SFA619102R3021	CP3-30R-20	93
1SFA619102R3022	CP3-30G-20	93
1SFA619102R3023	CP3-30Y-20	93
1SFA619102R3024	CP3-30L-20	93
1SFA619102R3025	CP3-30W-20	93
1SFA619102R3026	CP3-30B-20	93
1SFA619102R3041	CP3-30R-01	93
1SFA619102R3046	CP3-30B-01	93
1SFA619102R3071	CP3-30R-11	93
1SFA619102R3072	CP3-30G-11	93
1SFA619102R3075	CP3-30W-11	93
1SFA619102R3076	CP3-30B-11	93
1SFA619103R1011	CP4-10R-10	94
1SFA619103R1012	CP4-10G-10	94
1SFA619103R1013	CP4-10Y-10	94
1SFA619103R1014	CP4-10L-10	94
1SFA619103R1015	CP4-10W-10	94
1SFA619103R1016	CP4-10B-10	94
1SFA619103R1021	CP4-10R-20	94
1SFA619103R1022	CP4-10G-20	94
1SFA619103R1026	CP4-10B-20	94
1SFA619103R1041	CP4-10R-01	94
1SFA619103R1051	CP4-10R-02	94
1SFA619103R1056	CP4-10B-02	94
1SFA619103R1071	CP4-10R-11	94
1SFA619103R1072	CP4-10G-11	94
1SFA619103R1073	CP4-10Y-11	94
1SFA619103R1074	CP4-10L-11	94
1SFA619103R1075	CP4-10W-11	94
1SFA619103R1076	CP4-10B-11	94
1SFA619103R1111	CP4-11R-10	98
1SFA619103R1112	CP4-11G-10	98
1SFA619103R1113	CP4-11Y-10	98
1SFA619103R1114	CP4-11L-10	98
1SFA619103R1118	CP4-11C-10	98
1SFA619103R1141	CP4-11R-01	98
1SFA619103R1211	CP4-12R-10	98
1SFA619103R1212	CP4-12G-10	98
1SFA619103R1213	CP4-12Y-10	98
1SFA619103R1214	CP4-12L-10	98
1SFA619103R1218	CP4-12C-10	98
1SFA619103R1241	CP4-12R-01	98
1SFA619103R1311	CP4-13R-10	98
1SFA619103R1312	CP4-13G-10	98
1SFA619103R1313	CP4-13Y-10	98
1SFA619103R1314	CP4-13L-10	98
1SFA619103R1318	CP4-13C-10	98
1SFA619103R1341	CP4-13R-01	98
1SFA619103R3012	CP4-30G-10	94
1SFA619103R3022	CP4-30G-20	94
1SFA619103R3071	CP4-30R-11	94
1SFA619105R1021	CP6-10R-20	102
1SFA619105R1022	CP6-10G-20	102

Order code	Type	Page
1SFA619105R1026	CP6-10B-20	102
1SFA619105R1051	CP6-10R-02	102
1SFA619105R1056	CP6-10B-02	102
1SFA619105R1071	CP6-10R-11	102
1SFA619105R1072	CP6-10G-11	102
1SFA619105R1076	CP6-10B-11	102
1SFA619126R1071	CPM3-10R-11	99
1SFA619126R1072	CPM3-10G-11	99
1SFA619126R1073	CPM3-10Y-11	99
1SFA619126R1074	CPM3-10L-11	99
1SFA619126R1076	CPM3-10B-11	99
1SFA619200R1016	C2SS1-10B-10	107
1SFA619200R1026	C2SS1-10B-20	107
1SFA619200R1046	C2SS1-10B-01	107
1SFA619200R1076	C2SS1-10B-11	107
1SFA619200R3016	C2SS1-30B-10	107
1SFA619200R3026	C2SS1-30B-20	107
1SFA619200R3046	C2SS1-30B-01	107
1SFA619200R3076	C2SS1-30B-11	107
1SFA619201R1016	C2SS2-10B-10	107
1SFA619201R1026	C2SS2-10B-20	107
1SFA619201R1046	C2SS2-10B-01	107
1SFA619201R1076	C2SS2-10B-11	107
1SFA619201R3016	C2SS2-30B-10	107
1SFA619201R3026	C2SS2-30B-20	107
1SFA619201R3046	C2SS2-30B-01	107
1SFA619201R3076	C2SS2-30B-11	107
1SFA619202R1016	C2SS3-10B-10	107
1SFA619202R1026	C2SS3-10B-20	107
1SFA619202R1046	C2SS3-10B-01	107
1SFA619202R1076	C2SS3-10B-11	107
1SFA619202R3016	C2SS3-30B-10	107
1SFA619202R3026	C2SS3-30B-20	107
1SFA619202R3076	C2SS3-30B-11	107
1SFA619204R3016	C2SS5-30B-10	107
1SFA619204R3076	C2SS5-30B-11	107
1SFA619210R1026	C3SS1-10B-20	108
1SFA619210R1076	C3SS1-10B-11	108
1SFA619210R3026	C3SS1-30B-20	108
1SFA619210R3076	C3SS1-30B-11	108
1SFA619211R1026	C3SS2-10B-20	108
1SFA619211R1076	C3SS2-10B-11	108
1SFA619211R3026	C3SS2-30B-20	108
1SFA619211R3076	C3SS2-30B-11	108
1SFA619212R1026	C3SS3-10B-20	108
1SFA619212R1076	C3SS3-10B-11	108
1SFA619212R3026	C3SS3-30B-20	108
1SFA619212R3076	C3SS3-30B-11	108
1SFA619213R1026	C3SS4-10B-20	108
1SFA619213R1076	C3SS4-10B-11	108
1SFA619214R1026	C3SS5-10B-20	108
1SFA619214R1076	C3SS5-10B-11	108
1SFA619214R3026	C3SS5-30B-20	108
1SFA619216R1026	C3SS7-10B-20	108
1SFA619216R1076	C3SS7-10B-11	108

Order code	Type	Page
1SFA619216R3026	C3SS7-30B-20	108
1SFA619402R1001	CL-100R	105
1SFA619402R1002	CL-100G	105
1SFA619402R1003	CL-100Y	105
1SFA619402R1004	CL-100L	105
1SFA619402R1005	CL-100W	105
1SFA619402R1008	CL-100C	105
1SFA619403R5011	CL2-501R	103
1SFA619403R5012	CL2-501G	103
1SFA619403R5013	CL2-501Y	103
1SFA619403R5014	CL2-501L	103
1SFA619403R5018	CL2-501C	103
1SFA619403R5021	CL2-502R	103
1SFA619403R5022	CL2-502G	103
1SFA619403R5023	CL2-502Y	103
1SFA619403R5024	CL2-502L	103
1SFA619403R5028	CL2-502C	103
1SFA619403R5061	CL2-506R	103
1SFA619403R5062	CL2-506G	103
1SFA619403R5063	CL2-506Y	103
1SFA619403R5064	CL2-506L	103
1SFA619403R5068	CL2-506C	103
1SFA619403R5071	CL2-507R	103
1SFA619403R5072	CL2-507G	103
1SFA619403R5073	CL2-507Y	103
1SFA619403R5074	CL2-507L	103
1SFA619403R5078	CL2-507C	103
1SFA619403R5131	CL2-513R	103
1SFA619403R5132	CL2-513G	103
1SFA619403R5133	CL2-513Y	103
1SFA619403R5134	CL2-513L	103
1SFA619403R5138	CL2-513C	103
1SFA619403R5151	CL2-515R	103
1SFA619403R5152	CL2-515G	103
1SFA619403R5153	CL2-515Y	103
1SFA619403R5154	CL2-515L	103
1SFA619403R5158	CL2-515C	103
1SFA619403R5201	CL2-520R	104
1SFA619403R5202	CL2-520G	104
1SFA619403R5203	CL2-520Y	104
1SFA619403R5204	CL2-520L	104
1SFA619403R5208	CL2-520C	104
1SFA619403R5231	CL2-523R	104
1SFA619403R5232	CL2-523G	104
1SFA619403R5233	CL2-523Y	104
1SFA619403R5234	CL2-523L	104
1SFA619403R5238	CL2-523C	104
1SFA619403R5421	CL2-542R	104
1SFA619403R5422	CL2-542G	104
1SFA619403R5423	CL2-542Y	104
1SFA619403R5424	CL2-542L	104
1SFA619403R5428	CL2-542C	104
1SFA619403R6231	CL2-623R	104
1SFA619403R6232	CL2-623G	104
1SFA619403R6233	CL2-623Y	104

Index

Order code classification

Order code	Type	Page
1SFA619403R6234	CL2-623L	104
1SFA619403R6238	CL2-623C	104
1SFA619500R1041	CE3T-10R-01	100
1SFA619500R1046	CE3T-10B-01	101
1SFA619500R1051	CE3T-10R-02	100
1SFA619500R1071	CE3T-10R-11	100
1SFA619500R1076	CE3T-10B-11	101
1SFA619501R1041	CE3P-10R-01	100
1SFA619501R1051	CE3P-10R-02	100
1SFA619501R1071	CE3P-10R-11	100
1SFA619501R1076	CE3P-10B-11	101
1SFA619502R1041	CE3K1-10R-01	100
1SFA619502R1051	CE3K1-10R-02	100
1SFA619502R1071	CE3K1-10R-11	100
1SFA619502R1076	CE3K1-10B-11	101
1SFA619550R1016	CE4T-10B-10	101
1SFA619550R1026	CE4T-10B-20	101
1SFA619550R1041	CE4T-10R-01	100
1SFA619550R1046	CE4T-10B-01	101
1SFA619550R1051	CE4T-10R-02	100
1SFA619550R1056	CE4T-10B-02	101
1SFA619550R1071	CE4T-10R-11	100
1SFA619550R1076	CE4T-10B-11	101
1SFA619551R1041	CE4P-10R-01	100
1SFA619551R1051	CE4P-10R-02	100
1SFA619551R1071	CE4P-10R-11	100
1SFA619551R1076	CE4P-10B-11	101
1SFA619552R1041	CE4K1-10R-01	100
1SFA619552R1051	CE4K1-10R-02	100
1SFA619552R1071	CE4K1-10R-11	100
1SFA619552R1076	CE4K1-10B-11	101
1SFA619600R6002	CB1-600G	109
1SFA619600R6012	CB1-601G	109
1SFA619600R6022	CB1-602G	109
1SFA619600R6032	CB1-603G	109
1SFA619600R6101	CB1-610R	109
1SFA619600R6103	CB1-610Y	109
1SFA619600R6111	CB1-611R	109
1SFA619600R6113	CB1-611Y	109
1SFA619600R6121	CB1-612R	109
1SFA619600R6123	CB1-612Y	109
1SFA619600R6131	CB1-613R	109
1SFA619600R6133	CB1-613Y	109
1SFA619600R6206	CB1-620B	109
1SFA619600R6216	CB1-621B	109
1SFA619600R6226	CB1-622B	109
1SFA619600R6236	CB1-623B	109
1SFA619600R6306	CB1-630B	109
1SFA619600R6316	CB1-631B	109
1SFA619600R6326	CB1-632B	109
1SFA619600R6336	CB1-633B	109
1SFA619811R1000	CEP1-0	123
1SFA619811R1001	CEP1-1001	130
1SFA619811R1002	CEP1-1002	130
1SFA619811R2001	CEP1-2001	130

Order code	Type	Page
1SFA619811R2002	CEP1-2002	130
1SFA619821R1000	CEPY1-0	123
1SFA619821R1001	CEPY1-1001	130
1SFA619821R1002	CEPY1-1002	130
1SFA619821R1006	CEPY1-1006	130
1SFA619821R2001	CEPY1-2001	130
1SFA619821R2002	CEPY1-2002	130
1SFA619920R8053	CA1-8053	110, 123
1SFA619920R8054	CA1-8054	110, 123
1SFA619920R8077	CA1-8077	110
1SFA619920R8078	CA1-8078	110
1SFA619920R8080	CA1-8080	111
1SFA619930R1024	CA6-1024	128
1SFA619930R1026	CA6-1026	128
1SFA619930R1027	CA6-1027	128
1SQA009077R0001	A3L4AA-6L2C	155
1SQA009078R0001	A3L4AA-6L2G	155
1SQA009079R0001	A3L4AA-6L2L	155
1SQA009080R0001	A3L4AA-6L2M	155
1SQA009081R0001	A3L4AA-6L2R	155
1SQA009082R0001	A3L4AA-6L2W	155
1SQA009083R0001	A3L4AA-6L4C	155
1SQA009084R0001	A3L4AA-6L4G	155
1SQA009085R0001	A3L4AA-6L4L	155
1SQA009086R0001	A3L4AA-6L4M	155
1SQA009087R0001	A3L4AA-6L4R	155
1SQA009088R0001	A3L4AA-6L4W	155
1SQA009089R0001	A3L4AA-6L5C	156
1SQA009090R0001	A3L4AA-6L5G	156
1SQA009091R0001	A3L4AA-6L5L	156
1SQA009092R0001	A3L4AA-6L5M	156
1SQA009093R0001	A3L4AA-6L5R	156
1SQA009094R0001	A3L4AA-6L5W	156
1SQA009095R0001	A3L4AA-6L6C	156
1SQA009096R0001	A3L4AA-6L6G	156
1SQA009097R0001	A3L4AA-6L6L	156
1SQA009098R0001	A3L4AA-6L6M	156
1SQA009099R0001	A3L4AA-6L6R	156
1SQA009100R0001	A3L4AA-6L6W	156
1SQA009101R0001	A3L4AA-6L7G	156
1SQA009102R0001	A3L4AA-6L7R	156
1SQA009103R0001	A3L4AA-6L8C	156
1SQA009104R0001	A3L4AA-6L8G	156
1SQA009105R0001	A3L4AA-6L8L	156
1SQA009106R0001	A3L4AA-6L8M	156
1SQA009107R0001	A3L4AA-6L8R	156
1SQA009108R0001	A3L4AA-6L8W	156
1SQA009109R0001	A3L4AA-6L9G	156
1SQA009110R0001	A3L4AA-6L9R	156
1SQA009111R0001	A3L4AA-6L9W	156
1SQA009112R0001	A3L4AA-6LBG	155
1SQA009113R0001	A3L4AA-6LBM	155
1SQA009114R0001	A3L4AA-6LBR	155
1SQA009115R0001	A3L4AA-6LBW	155
1SQA009116R0001	A3L4AA-6LLG	156

Order code	Type	Page
1SQA009117R0001	A3L4AA-6LLM	156
1SQA009118R0001	A3L4AA-6LLR	156
1SQA009119R0001	A3L4AA-6LLW	156
1SQA009120R0001	A3L4AA-6N4N	155
1SQA009121R0001	A3PB41-600B-00	147
1SQA009122R0001	A3PB41-600B-01	147
1SQA009123R0001	A3PB41-600B-10	147
1SQA009125R0001	A3PB41-600G-00	147
1SQA009126R0001	A3PB41-600G-01	147
1SQA009127R0001	A3PB41-600G-10	147
1SQA009129R0001	A3PB41-600R-00	147
1SQA009130R0001	A3PB41-600R-01	147
1SQA009131R0001	A3PB41-600R-10	147
1SQA009133R0001	A3PB41-600Y-00	147
1SQA009134R0001	A3PB41-600Y-01	147
1SQA009135R0001	A3PB41-600Y-10	147
1SQA009137R0001	A3PB61-600B-00	149
1SQA009138R0001	A3PB61-600B-01	149
1SQA009139R0001	A3PB61-600B-10	149
1SQA009141R0001	A3PB61-600G-00	149
1SQA009142R0001	A3PB61-600G-01	149
1SQA009143R0001	A3PB61-600G-10	149
1SQA009145R0001	A3PB61-600R-00	149
1SQA009146R0001	A3PB61-600R-01	149
1SQA009147R0001	A3PB61-600R-10	149
1SQA009149R0001	A3PB61-600Y-00	149
1SQA009150R0001	A3PB61-600Y-01	149
1SQA009152R0001	A3PBE1-6007-00	143
1SQA009153R0001	A3PBE1-6007-01	143
1SQA009154R0001	A3PBE1-6007-10	143
1SQA009156R0001	A3PBE1-600B-00	143
1SQA009157R0001	A3PBE1-600B-01	143
1SQA009158R0001	A3PBE1-600B-10	143
1SQA009160R0001	A3PBE1-600G-00	143
1SQA009161R0001	A3PBE1-600G-01	143
1SQA009162R0001	A3PBE1-600G-10	143
1SQA009164R0001	A3PBE1-600R-00	143
1SQA009165R0001	A3PBE1-600R-01	143
1SQA009166R0001	A3PBE1-600R-10	143
1SQA009168R0001	A3PBE1-600Y-00	143
1SQA009169R0001	A3PBE1-600Y-10	143
1SQA009171R0001	A3PBF1-6007-00	142
1SQA009172R0001	A3PBF1-6007-01	142
1SQA009173R0001	A3PBF1-6007-10	142
1SQA009175R0001	A3PBF1-600B-00	142
1SQA009176R0001	A3PBF1-600B-01	142
1SQA009177R0001	A3PBF1-600B-10	142
1SQA009179R0001	A3PBF1-600G-00	142
1SQA009180R0001	A3PBF1-600G-01	142
1SQA009181R0001	A3PBF1-600G-10	142
1SQA009183R0001	A3PBF1-600L-00	142
1SQA009184R0001	A3PBF1-600L-10	142
1SQA009186R0001	A3PBF1-600Y-00	142
1SQA009187R0001	A3PBF1-600R-00	142
1SQA009188R0001	A3PBF1-600R-01	142

Index

Order code classification

Order code	Type	Page
1SQA009189R0001	A3PBF1-600R-10	142
1SQA009191R0001	A3PBF1-600Y-01	142
1SQA009192R0001	A3PBF1-600Y-10	142
1SQA009202R0001	A3PL41-6L5R-00	150
1SQA009208R0001	A3PL41-6LBR-10	150
1SQA009218R0001	A3PLE1-6L2G-10	144
1SQA009221R0001	A3PLE1-6L2M-00	144
1SQA009222R0001	A3PLE1-6L2M-10	144
1SQA009224R0001	A3PLE1-6L2R-00	144
1SQA009226R0001	A3PLE1-6L2W-10	144
1SQA009229R0001	A3PLE1-6L4G-00	144
1SQA009230R0001	A3PLE1-6L4G-10	144
1SQA009233R0001	A3PLE1-6L4M-00	144
1SQA009235R0001	A3PLE1-6L4R-00	144
1SQA009236R0001	A3PLE1-6L4R-10	144
1SQA009238R0001	A3PLE1-6L4W-10	144
1SQA009241R0001	A3PLE1-6L5G-00	145
1SQA009242R0001	A3PLE1-6L5G-10	145
1SQA009245R0001	A3PLE1-6L5M-10	145
1SQA009247R0001	A3PLE1-6L5R-10	145
1SQA009265R0001	A3PLE1-6LLM-10	146
1SQA009267R0001	A3PLE1-6LLR-10	146
1SQA009270R0001	A3PP42-600B-01	147
1SQA009272R0001	A3PP42-600G-01	147
1SQA009273R0001	A3PP42-600R-00	147
1SQA009274R0001	A3PP42-600R-01	147
1SQA009276R0001	A3PP42-600Y-01	147
1SQA009279R0001	A3PP42-6L2R-01	150
1SQA009280R0001	A3PP42-6L2R-10	150
1SQA009284R0001	A3PP42-6L4R-10	150
1SQA009288R0001	A3PP42-6L5R-00	151
1SQA009289R0001	A3PP42-6L5R-01	151
1SQA009304R0001	A3PP62-600R-00	149
1SQA009305R0001	A3PP62-600R-01	149
1SQA009308R0001	A3PPM2-600N-00	148
1SQA009309R0001	A3PPM2-600R-00	148
1SQA009310R0001	A3PPM2-600R-01	148
1SQA009311R0001	A3PPM2-600R-10	148
1SQA009314R0001	A3PPM2-6L4G-01	152
1SQA009316R0001	A3PPM2-6L4R-00	152
1SQA009317R0001	A3PPM2-6L4R-01	152
1SQA009320R0001	A3PPM2-6LBR-01	148
1SQA009325R0001	A3PPM3-6L4R-00	152
1SQA009328R0001	A3PPM4-6L2R-00	152
1SQA009332R0001	A3PT4R-600N-00	154
1SQA009333R0001	A3PT4R-600R-00	147
1SQA009334R0001	A3PT4R-600R-01	147
1SQA009335R0001	A3PT4R-600R-10	147
1SQA009345R0001	A3SKAX-6AA1-00	163
1SQA009347R0001	A3SKBE-6AA1-00	164
1SQA009350R0001	A3SKBH-6AA1-00	164
1SQA009352R0001	A3SKBV-6AA1-00	164
1SQA009354R0001	A3SKBY-6AA1-00	164
1SQA009355R0001	A3SKCE-6AA1-00	164
1SQA009358R0001	A3SKCG-6AA1-00	164

Order code	Type	Page
1SQA009360R0001	A3SKCH-6AA1-00	164
1SQA009362R0001	A3SKCT-6AA1-00	164
1SQA009364R0001	A3SKCV-6AA1-00	164
1SQA009366R0001	A3SKCY-6AA1-00	164
1SQA009368R0001	A3SKDE-6AA1-00	164
1SQA009372R0001	A3SKDV-6AA1-00	164
1SQA009376R0001	A3SKEV-6AA1-00	163
1SQA009378R0001	A3SKGE-6AA1-00	163
1SQA009380R0001	A3SKGG-6AA1-00	163
1SQA009381R0001	A3SKGH-6AA1-00	163
1SQA009389R0001	A3SLBC-6AAB-00	160
1SQA009391R0001	A3SLBD-6AAB-00	161
1SQA009393R0001	A3SLCA-6AAB-00	160
1SQA009395R0001	A3SLCB-6AAB-00	160
1SQA009398R0001	A3SLCD-6AAB-00	161
1SQA009406R0001	A3SLGA-6AAB-00	160
1SQA009410R0001	A3SLGD-6AAB-00	161
1SQA009417R0001	A3SSAA-6L2G-00	162
1SQA009422R0001	A3SSAA-6L2R-00	162
1SQA009424R0001	A3SSAA-6L4G-00	162
1SQA009428R0001	A3SSAA-6L4R-00	162
1SQA009430R0001	A3SSAA-6L5G-00	162
1SQA009433R0001	A3SSAA-6L5R-00	162
1SQA009441R0001	A3SSBA-6L2G-00	162
1SQA009453R0001	A3SSCA-6L2G-00	162
1SQA009456R0001	A3SSCA-6L4G-00	162
1SQA009459R0001	A3SSCA-6L4R-00	162
1SQA009462R0001	A3SSCA-6L5R-00	162
1SQA009474R0001	A3SSDC-6AAB-00	158
1SQA009476R0001	A3SSDD-6AAB-00	159
1SQA009480R0001	A3SSEB-6AAB-00	158
1SQA009481R0001	A3SSEC-6AAB-00	158
1SQA009483R0001	A3SSED-6AAB-00	159
1SQA009488R0001	A3SSGC-6AAB-00	158
1SQA009490R0001	A3SSGD-6AAB-00	159
1SQA009494R0001	A3XC01	167
1SQA009496R0001	A3XC10	167
1SQA009500R0001	A3XGCE	168
1SQA009501R0001	A3XGCF	168
1SQA009502R0001	A3XGLM	168
1SQA009503R0001	A3XGLN	168
1SQA009504R0001	A3XGLP	168
1SQA009506R0001	A3XGPM	168
1SQA009510R0001	A3XL4LR	168
1SQA009511R0001	A3XL4N8	168
1SQA009512R0001	A3XL4NA	168
1SQA009513R0001	A3XL4NB	168
1SQA009514R0001	A3XL4NG	168
1SQA009515R0001	A3XL4NL	168
1SQA009516R0001	A3XL4NR	168
1SQA009517R0001	A3XL4NY	168
1SQA009518R0001	A3XL6N8	168
1SQA009519R0001	A3XL6NA	168
1SQA009520R0001	A3XL6NB	168
1SQA009521R0001	A3XL6NG	168

Order code	Type	Page
1SQA009522R0001	A3XL6NL	168
1SQA009523R0001	A3XL6NR	168
1SQA009524R0001	A3XL6NY	168
1SQA009525R0001	A3XLELC	168
1SQA009526R0001	A3XLELG	168
1SQA009527R0001	A3XLELL	168
1SQA009528R0001	A3XLELM	168
1SQA009529R0001	A3XLELR	168
1SQA009530R0001	A3XLELW	168
1SQA009531R0001	A3XL6N6	168
1SQA009532R0001	A3XL6N8	168
1SQA009533R0001	A3XL6NA	168
1SQA009534R0001	A3XL6NG	168
1SQA009535R0001	A3XL6NL	168
1SQA009536R0001	A3XL6NR	168
1SQA009537R0001	A3XL6NY	168
1SQA009538R0001	A3XL6N6	169
1SQA009539R0001	A3XL6N8	169
1SQA009540R0001	A3XL6NA	169
1SQA009541R0001	A3XL6NB	169
1SQA009542R0001	A3XL6NG	169
1SQA009543R0001	A3XL6NL	169
1SQA009544R0001	A3XL6NR	169
1SQA009545R0001	A3XL6NY	169
1SQA009546R0001	A3XL6LLA	169
1SQA009547R0001	A3XL6LLC	169
1SQA009548R0001	A3XL6LLG	169
1SQA009549R0001	A3XL6LLL	169
1SQA009550R0001	A3XL6LLM	169
1SQA009551R0001	A3XL6LLR	169
1SQA009552R0001	A3XL6LLW	169
1SQA009553R0001	A3XL6MLG	169
1SQA009554R0001	A3XL6MLM	169
1SQA009555R0001	A3XL6MLR	169
1SQA009556R0001	A3XL6MLW	169
1SQA009557R0001	A3XL6MN1	169
1SQA009558R0001	A3XL6MNG	169
1SQA009559R0001	A3XL6MNR	169
1SQA009560R0001	A3XL6SG6	169
1SQA009561R0001	A3XL6SG8	169
1SQA009562R0001	A3XL6SGG	169
1SQA009563R0001	A3XL6SGL	169
1SQA009564R0001	A3XL6SGR	169
1SQA009565R0001	A3XL6SGW	169
1SQA009566R0001	A3XL6SGY	169
1SQA009567R0001	A3XL6SS6	169
1SQA009568R0001	A3XL6SS8	169
1SQA009569R0001	A3XL6SSG	169
1SQA009570R0001	A3XL6SSL	169
1SQA009571R0001	A3XL6SSR	169
1SQA009572R0001	A3XL6SSW	169
1SQA009573R0001	A3XL6SSY	169

Index

Order code classification

Order code	Type	Page	Order code	Type	Page	Order code	Type	Page
1SQA009577R0001	A3XLTNG	169	1SQA010216R0001	A3XLKLL	170	1SQA010461R0001	A3L4AA-6LUM	155
1SQA009578R0001	A3XLtnr	169	1SQA010217R0001	A3XLKLM	170	1SQA010462R0001	A3L4AA-6LUR	155
1SQA009579R0001	A3XLtny	169	1SQA010218R0001	A3XLKLC	170	1SQA010463R0001	A3L4AA-6LUW	155
1SQA009581R0001	A3XK501	168	1SQA010219R0001	A3XLKLW	170	1SQA010464R0001	A3L4AA-6LUL	155
1SQA009583R0001	A3XXGC	170	1SQA010221R0001	A3XGLW	170	1SQA010465R0001	A3L4AA-6LUC	155
1SQA010161R0001	A3SSAA-6AAB-00	157	1SQA010222R0001	A3XLP0C	170	1SQA010480R0001	A3XMLLL	170
1SQA010162R0001	A3SSCA-6AAB-00	157	1SQA010223R0001	A3XLP0B	170	1SQA010492R0001	A3L4AA-6L9C	156
1SQA010163R0001	A3SSCB-6AAB-00	158	1SQA010401R0001	A3XBL2L	170	1SQA010493R0001	A3L4AA-6L9M	156
1SQA010164R0001	A3SSCD-6AAB-00	159	1SQA010402R0001	A3XBL2Y	170	1SQA010494R0001	A3L4AA-6L9L	156
1SQA010165R0001	A3SSGA-6AAB-00	158	1SQA010403R0001	A3XBL4G	170	1SQA010745R0001	A3PB41-600B-91	147
1SQA010170R0001	A3SKAE-6AA1-00	163	1SQA010404R0001	A3XMN5N	170	1SQA010746R0001	A3PB41-600G-91	147
1SQA010171R0001	A3SKAF-6AA1-00	163	1SQA010405R0001	A3XBL6L	170	1SQA010747R0001	A3PB41-600R-91	147
1SQA010172R0001	A3SSBA-6AAB-00	157	1SQA010406R0001	A3XBL6Y	170	1SQA010748R0001	A3PB41-600Y-91	147
1SQA010173R0001	A3SSBD-6AAB-00	159	1SQA010407R0001	A3XMN9N	170	1SQA010749R0001	A3PB61-600B-91	149
1SQA010174R0001	A3SSHA-6AAB-00	159	1SQA010408R0001	A3XMLLW	170	1SQA010750R0001	A3PB61-600G-91	149
1SQA010175R0001	A3SSEA-6AAB-00	158	1SQA010409R0001	A3XL6LG	168	1SQA010751R0001	A3PB61-600R-91	149
1SQA010177R0001	A3PBM1-600R-01	148	1SQA010410R0001	A3XL6LR	168	1SQA010752R0001	A3PB61-600Y-91	149
1SQA010178R0001	A3PBN1-600N-00	154	1SQA010411R0001	A3XL6LM	168	1SQA010753R0001	A3PBE1-6007-91	143
1SQA010179R0001	A3XMN4N	170	1SQA010412R0001	A3SKBF-6AA1-00	163	1SQA010754R0001	A3PBE1-600B-91	143
1SQA010180R0001	A3XGGL	168	1SQA010413R0001	A3SKCF-6AA1-00	163	1SQA010755R0001	A3PBE1-600G-91	143
1SQA010181R0001	A3XGGP	168	1SQA010414R0001	A3SKCU-6AA1-00	163	1SQA010756R0001	A3PBE1-600R-91	143
1SQA010182R0001	A3XMLLR	170	1SQA010415R0001	A3SKDF-6AA1-00	163	1SQA010757R0001	A3PBE1-600Y-91	143
1SQA010183R0001	A3XMLLG	170	1SQA010416R0001	A3SKDH-6AA1-00	163	1SQA010758R0001	A3PBF1-6007-91	142
1SQA010184R0001	A3XMMLY	170	1SQA010417R0001	A3SKDY-6AA1-00	164	1SQA010759R0001	A3PBF1-600B-91	142
1SQA010185R0001	A3XMLUG	170	1SQA010418R0001	A3SKEE-6AA1-00	163	1SQA010760R0001	A3PBF1-600G-91	142
1SQA010186R0001	A3XMN6N	170	1SQA010419R0001	A3SKET-6AA1-00	164	1SQA010761R0001	A3PBF1-600L-91	142
1SQA010187R0001	A3XMN8N	170	1SQA010421R0001	A3SSAA-6L2L-00	162	1SQA010762R0001	A3PBF1-600R-91	142
1SQA010188R0001	A3XMN7N	170	1SQA010424R0001	A3SSAA-6L4L-00	162	1SQA010763R0001	A3PBF1-600Y-91	142
1SQA010189R0001	A3XBL6R	170	1SQA010425R0001	A3SSAA-6L4M-00	162	1SQA010764R0001	A3PL41-6L2G-91	150
1SQA010190R0001	A3XBL6G	170	1SQA010428R0001	A3SSAA-6L5M-00	162	1SQA010765R0001	A3PL41-6L2M-91	150
1SQA010191R0001	A3XBL6W	170	1SQA010430R0001	A3SSAA-6L6G-00	162	1SQA010766R0001	A3PL41-6L2R-91	150
1SQA010192R0001	A3XBL2R	170	1SQA010432R0001	A3SSBA-6L2R-00	162	1SQA010767R0001	A3PL41-6L4G-91	150
1SQA010193R0001	A3XBL2G	170	1SQA010434R0001	A3SSCA-6L2M-00	162	1SQA010768R0001	A3PL41-6L4M-91	150
1SQA010194R0001	A3XBL2W	170	1SQA010436R0001	A3SSCA-6L4L-00	162	1SQA010769R0001	A3PL41-6L4R-91	150
1SQA010195R0001	A3XBL4R	170	1SQA010438R0001	A3SSCA-6L5G-00	162	1SQA010770R0001	A3PL41-6L5G-91	150
1SQA010196R0001	A3XBL4Y	170	1SQA010440R0001	A3SSDB-6AAB-00	158	1SQA010771R0001	A3PL41-6L5R-91	150
1SQA010197R0001	A3XBL4L	170	1SQA010441R0001	A3SSGB-6AAB-00	158	1SQA010772R0001	A3PL41-6L6R-91	150
1SQA010198R0001	A3XBL4W	170	1SQA010442R0001	A3SLAC-6AAB-00	159	1SQA010773R0001	A3PL41-6L9R-91	150
1SQA010199R0001	A3L4AA-6N0N	156	1SQA010443R0001	A3SLBA-6AAB-00	160	1SQA010774R0001	A3PL41-6LBG-91	150
1SQA010200R0001	A3PPN2-600N-00	154	1SQA010444R0001	A3SLBB-6AAB-00	160	1SQA010775R0001	A3PL41-6LBM-91	150
1SQA010201R0001	A3XLENB	170	1SQA010445R0001	A3SLCC-6AAB-00	160	1SQA010776R0001	A3PL41-6LLR-91	150
1SQA010202R0001	A3SLAA-6AAB-00	157	1SQA010446R0001	A3SLDA-6AAB-00	160	1SQA010777R0001	A3PL61-6L2G-91	153
1SQA010203R0001	A3SSAC-6AAB-00	157	1SQA010447R0001	A3SLDC-6AAB-00	160	1SQA010778R0001	A3PL61-6L2R-91	153
1SQA010204R0001	A3SSAA-6AAG-00	157	1SQA010448R0001	A3SLDD-6AAB-00	161	1SQA010779R0001	A3PL61-6L4G-91	153
1SQA010205R0001	A3SSAA-6AAR-00	157	1SQA010449R0001	A3SLEA-6AAB-00	160	1SQA010780R0001	A3PL61-6L4R-91	153
1SQA010206R0001	A3SSBB-6AAB-00	158	1SQA010450R0001	A3SLEC-6AAB-00	160	1SQA010781R0001	A3PL61-6L5R-91	153
1SQA010207R0001	A3SSBC-6AAB-00	158	1SQA010451R0001	A3SLED-6AAB-00	161	1SQA010782R0001	A3PL61-6LLM-91	153
1SQA010208R0001	A3SSCC-6AAB-00	158	1SQA010452R0001	A3SLGB-6AAB-00	160	1SQA010783R0001	A3PL61-6LLR-91	153
1SQA010209R0001	A3SSDA-6AAB-00	157	1SQA010453R0001	A3SLGC-6AAB-00	160	1SQA010784R0001	A3PLE1-6L2C-91	144
1SQA010210R0001	A3SKAG-6AA1-00	163	1SQA010454R0001	A3SLHA-6AAB-00	161	1SQA010785R0001	A3PLE1-6L2G-91	144
1SQA010211R0001	A3XGCC	168	1SQA010455R0001	A3XMLUW	170	1SQA010786R0001	A3PLE1-6L2L-91	144
1SQA010212R0001	A3XL4LG	168	1SQA010456R0001	A3XMLUR	170	1SQA010787R0001	A3PLE1-6L2M-91	144
1SQA010213R0001	A3XLKLG	170	1SQA010458R0001	A3XMLUL	170	1SQA010788R0001	A3PLE1-6L2R-91	144
1SQA010214R0001	A3XLKLR	170	1SQA010459R0001	A3XMLUY	170	1SQA010789R0001	A3PLE1-6L2W-91	144
1SQA010215R0001	A3XL4LM	168	1SQA010460R0001	A3L4AA-6LUG	155	1SQA010790R0001	A3PLE1-6L4C-91	144

Index

Order code classification

Order code	Type	Page
1SQA010791R0001	A3PLE1-6L4G-91	144
1SQA010792R0001	A3PLE1-6L4L-91	144
1SQA010793R0001	A3PLE1-6L4M-91	144
1SQA010794R0001	A3PLE1-6L4R-91	144
1SQA010795R0001	A3PLE1-6L4W-91	144
1SQA010796R0001	A3PLE1-6L5C-91	145
1SQA010797R0001	A3PLE1-6L5G-91	145
1SQA010798R0001	A3PLE1-6L5L-91	145
1SQA010799R0001	A3PLE1-6L5M-91	145
1SQA010800R0001	A3PLE1-6L5R-91	145
1SQA010801R0001	A3PLE1-6L5W-91	145
1SQA010802R0001	A3PLE1-6L6G-91	145
1SQA010803R0001	A3PLE1-6L6L-91	145
1SQA010804R0001	A3PLE1-6L6M-91	145
1SQA010805R0001	A3PLE1-6L6R-91	145
1SQA010806R0001	A3PLE1-6L6W-91	145
1SQA010807R0001	A3PLE1-6L8G-91	145
1SQA010808R0001	A3PLE1-6L8M-91	145
1SQA010809R0001	A3PLE1-6L8R-91	145
1SQA010810R0001	A3PLE1-6L9G-91	145
1SQA010811R0001	A3PLE1-6L9R-91	145
1SQA010812R0001	A3PLE1-6LBG-91	146
1SQA010813R0001	A3PLE1-6LBL-91	146
1SQA010814R0001	A3PLE1-6LBM-91	146
1SQA010815R0001	A3PLE1-6LBR-91	146
1SQA010816R0001	A3PLE1-6LLG-91	146
1SQA010817R0001	A3PLE1-6LLM-91	146
1SQA010818R0001	A3PLE1-6LLR-91	146
1SQA010819R0001	A3PLE1-6LLW-91	146
1SQA010820R0001	A3PLE1-6L7G-91	145
1SQA010821R0001	A3PLE1-6L7R-91	145
1SQA010822R0001	A3PLE1-6L7M-91	145
1SQA010823R0001	A3PLE1-6L7W-91	145
1SQA010824R0001	A3PLE1-6L7L-91	145
1SQA010825R0001	A3PLE1-6L7C-91	145
1SQA010826R0001	A3PLE1-6LUG-91	146
1SQA010827R0001	A3PLE1-6LUM-91	146
1SQA010828R0001	A3PLE1-6LUR-91	146
1SQA010829R0001	A3PLE1-6LUW-91	146
1SQA010830R0001	A3PLE1-6LUL-91	146
1SQA010831R0001	A3PLE1-6LUC-91	146
1SQA010832R0001	A3PLE1-6LLL-91	146
1SQA010833R0001	A3PLE1-6LLC-91	146
1SQA010834R0001	A3PLE1-6L9M-91	145
1SQA010835R0001	A3PLE1-6L8W-91	145
1SQA010836R0001	A3PLE1-6L9W-91	145
1SQA010837R0001	A3PLE1-6L8L-91	145
1SQA010838R0001	A3PLE1-6L9L-91	145
1SQA010839R0001	A3PLE1-6L6C-91	145
1SQA010840R0001	A3PLE1-6L8C-91	145
1SQA010841R0001	A3PLE1-6L9C-91	145
1SQA010842R0001	A3PP42-600B-91	147
1SQA010843R0001	A3PP42-600R-91	147
1SQA010844R0001	A3PP43-600R-1N	147
1SQA010845R0001	A3PP44-600R-1N	147

Order code	Type	Page
1SQA010846R0001	A3PP62-600R-91	149
1SQA010847R0001	A3PPM2-600R-91	148
1SQA010848R0001	A3PPM3-600R-1N	152
1SQA010849R0001	A3PPM4-600R-1N	148
1SQA010850R0001	A3PP42-6L2G-91	150
1SQA010851R0001	A3PP42-6L2M-91	150
1SQA010852R0001	A3PP42-6L2R-91	150
1SQA010853R0001	A3PP42-6L4G-91	150
1SQA010854R0001	A3PP42-6L4M-91	150
1SQA010855R0001	A3PP42-6L4R-91	150
1SQA010856R0001	A3PP42-6L5G-91	151
1SQA010857R0001	A3PP42-6L5M-91	151
1SQA010858R0001	A3PP42-6L5R-91	151
1SQA010859R0001	A3PP42-6L8G-91	151
1SQA010860R0001	A3PP42-6L9R-91	151
1SQA010861R0001	A3PP42-6LLG-91	151
1SQA010862R0001	A3PP42-6LLR-91	151
1SQA010863R0001	A3PP43-6L4G-1N	151
1SQA010864R0001	A3PP43-6L4R-1N	151
1SQA010865R0001	A3PP43-6L5R-1N	151
1SQA010866R0001	A3PP43-6L8G-1N	151
1SQA010867R0001	A3PP44-6L2R-1N	151
1SQA010868R0001	A3PP44-6L4R-1N	151
1SQA010869R0001	A3PP44-6L5R-1N	151
1SQA010870R0001	A3PP62-6L2R-91	153
1SQA010871R0001	A3PPM2-6L2R-91	152
1SQA010872R0001	A3PPM2-6L4G-91	152
1SQA010873R0001	A3PPM2-6L4R-91	152
1SQA010874R0001	A3PPM2-6L4W-91	152
1SQA010875R0001	A3PPM3-6L2R-1N	152
1SQA010876R0001	A3PPM3-6L4G-1N	152
1SQA010877R0001	A3PPM3-6L4M-1N	152
1SQA010878R0001	A3PPM3-6L4R-1N	152
1SQA010879R0001	A3PPM4-6L2R-1N	152
1SQA010880R0001	A3PPM4-6L4R-1N	152
1SQA010881R0001	A3PT4R-600R-91	147
1SQA010882R0001	A3SSAA-6L2G-10	162
1SQA010883R0001	A3SSAA-6L2G-91	162
1SQA010884R0001	A3SSAA-6L2L-10	162
1SQA010885R0001	A3SSAA-6L2L-91	162
1SQA010886R0001	A3SSAA-6L2R-91	162
1SQA010887R0001	A3SSAA-6L4G-91	162
1SQA010888R0001	A3SSAA-6L4L-91	162
1SQA010889R0001	A3SSAA-6L4M-91	162
1SQA010890R0001	A3SSAA-6L4R-91	162
1SQA010891R0001	A3SSAA-6L5G-91	162
1SQA010892R0001	A3SSAA-6L5M-91	162
1SQA010893R0001	A3SSAA-6L5R-91	162
1SQA010894R0001	A3SSAA-6L6G-91	162
1SQA010895R0001	A3SSBA-6L2R-91	162
1SQA010896R0001	A3SSCA-6L2G-91	162
1SQA010897R0001	A3SSCA-6L2M-91	162
1SQA010898R0001	A3SSCA-6L4G-91	162
1SQA010899R0001	A3SSCA-6L4L-91	162
1SQA010900R0001	A3SSCA-6L4R-91	162

Order code	Type	Page
1SQA010901R0001	A3SSCA-6L5G-91	162
1SQA010902R0001	A3SSCA-6L5R-91	162
1SQA010903R0001	A3SLAA-6AAB-91	157
1SQA010904R0001	A3SLAC-6AAB-91	157
1SQA010905R0001	A3SLBA-6AAB-91	160
1SQA010906R0001	A3SLBB-6AAB-91	160
1SQA010907R0001	A3SLBC-6AAB-91	160
1SQA010908R0001	A3SLBD-6AAB-91	161
1SQA010909R0001	A3SLCA-6AAB-91	160
1SQA010910R0001	A3SLCB-6AAB-91	160
1SQA010911R0001	A3SLCC-6AAB-91	160
1SQA010912R0001	A3SLCD-6AAB-91	161
1SQA010913R0001	A3SLDA-6AAB-91	160
1SQA010914R0001	A3SLDC-6AAB-91	160
1SQA010915R0001	A3SLDD-6AAB-91	161
1SQA010916R0001	A3SLEA-6AAB-91	160
1SQA010917R0001	A3SLEC-6AAB-91	160
1SQA010918R0001	A3SLED-6AAB-91	161
1SQA010919R0001	A3SLGA-6AAB-91	160
1SQA010920R0001	A3SLGB-6AAB-91	160
1SQA010921R0001	A3SLGC-6AAB-91	160
1SQA010922R0001	A3SLGD-6AAB-91	161
1SQA010923R0001	A3SLHA-6AAB-92	161
1SQA010924R0001	A3SSAA-6AAB-01	157
1SQA010925R0001	A3SSAA-6AAB-10	157
1SQA010926R0001	A3SSAA-6AAB-91	157
1SQA010927R0001	A3SSAC-6AAB-91	157
1SQA010928R0001	A3SSBA-6AAB-10	157
1SQA010929R0001	A3SSBA-6AAB-91	157
1SQA010930R0001	A3SSBB-6AAB-91	158
1SQA010931R0001	A3SSBC-6AAB-91	158
1SQA010932R0001	A3SSBD-6AAB-91	159
1SQA010933R0001	A3SSBD-6AAB-92	159
1SQA010934R0001	A3SSCA-6AAB-10	157
1SQA010935R0001	A3SSCA-6AAB-91	157
1SQA010936R0001	A3SSCB-6AAB-91	158
1SQA010937R0001	A3SSCC-6AAB-91	158
1SQA010938R0001	A3SSCD-6AAB-10	159
1SQA010939R0001	A3SSCD-6AAB-91	159
1SQA010940R0001	A3SSDA-6AAB-91	157
1SQA010941R0001	A3SSDB-6AAB-91	158
1SQA010942R0001	A3SSDC-6AAB-91	158
1SQA010943R0001	A3SSDD-6AAB-91	159
1SQA010944R0001	A3SSEA-6AAB-91	158
1SQA010945R0001	A3SSEC-6AAB-91	158
1SQA010946R0001	A3SSED-6AAB-91	159
1SQA010947R0001	A3SSGA-6AAB-91	158
1SQA010948R0001	A3SSGB-6AAB-91	158
1SQA010949R0001	A3SSGC-6AAB-91	158
1SQA010950R0001	A3SSGD-6AAB-91	159
1SQA010951R0001	A3SSHA-6AAB-92	159
1SQA010952R0001	A3SKAE-6AA1-10	163
1SQA010953R0001	A3SKAE-6AA1-91	163
1SQA010954R0001	A3SKAF-6AA1-10	163
1SQA010955R0001	A3SKAF-6AA1-91	163

Index

Order code classification

Order code	Type	Page
1SQA010956R0001	A3SKAG-6AA1-91	163
1SQA010957R0001	A3SKAX-6AA1-91	163
1SQA010958R0001	A3SKBE-6AA1-91	163
1SQA010959R0001	A3SKBF-6AA1-91	163
1SQA010960R0001	A3SKBH-6AA1-91	163
1SQA010961R0001	A3SKBV-6AA1-91	164
1SQA010962R0001	A3SKCE-6AA1-91	164
1SQA010963R0001	A3SKCF-6AA1-91	164
1SQA010964R0001	A3SKCG-6AA1-91	164
1SQA010965R0001	A3SKCH-6AA1-91	164
1SQA010966R0001	A3SKCU-6AA1-91	164
1SQA010967R0001	A3SKCV-6AA1-91	164
1SQA010968R0001	A3SKCY-6AA1-91	164
1SQA010969R0001	A3SKDE-6AA1-91	163
1SQA010970R0001	A3SKDF-6AA1-91	164
1SQA010971R0001	A3SKDH-6AA1-91	164
1SQA010972R0001	A3SKDY-6AA1-91	164
1SQA010973R0001	A3SKEE-6AA1-91	163
1SQA010974R0001	A3SKET-6AA1-91	164
1SQA010975R0001	A3SKEV-6AA1-91	164
1SQA010976R0001	A3SKGE-6AA1-92	163
1SQA010977R0001	A3SKGH-6AA1-92	163
1SQA010978R0001	A3XC91	167
1SQA010979R0001	A3XC0B	167
1SQA010980R0001	A3XC0N	167
1SQA010981R0001	A3XC0M	167
1SQA010984R0001	A3SSAA-6AAB-20	157
1SQA010985R0001	A3SSAA-6AAB-21	157
1SQA010989R0001	A3SSCA-6AAB-12	157
1SQA010991R0001	A3SSGA-6AAB-12	158
1SQA010993R0001	A3SSBA-6AAB-21	157
1SQA010999R0001	A3SSBA-6L2G-91	162
1SQA011084R0001	A3SKAE-6AA1-20	163
1SQA011085R0001	A3SKBE-6AA1-92	164
1SQA011086R0001	A3SKBF-6AA1-92	164
1SQA011087R0001	A3SKBH-6AA1-92	163
1SQA011088R0001	A3SKBV-6AA1-92	164
1SQA011089R0001	A3SKCY-6AA1-92	164
1SQA011090R0001	A3SKDE-6AA1-92	164
1SQA011091R0001	A3SKDY-6AA1-92	163
1SQA011092R0001	A3SKEE-6AA1-92	163
1SQA011093R0001	A3SKET-6AA1-92	163
1SQA011094R0001	A3SKEV-6AA1-92	163
1SQA011095R0001	A3SLBA-6AAB-92	160
1SQA011096R0001	A3SLBB-6AAB-92	160
1SQA011097R0001	A3SLBC-6AAB-92	160
1SQA011098R0001	A3SLBD-6AAB-92	161
1SQA011099R0001	A3SLDD-6AAB-92	161
1SQA011100R0001	A3SLEA-6AAB-92	160
1SQA011101R0001	A3SLED-6AAB-92	161
1SQA011102R0001	A3SLGA-6AAB-92	160
1SQA011103R0001	A3SLGB-6AAB-92	160
1SQA011104R0001	A3SLGC-6AAB-92	160
1SQA011105R0001	A3SLGD-6AAB-92	161
1SQA011106R0001	A3SSBA-6AAB-20	157

Order code	Type	Page
1SQA011107R0001	A3SSBA-6AAB-92	157
1SQA011108R0001	A3SSBB-6AAB-92	158
1SQA011109R0001	A3SSBC-6AAB-92	158
1SQA011111R0001	A3SSCC-6AAB-92	158
1SQA011113R0001	A3SSDC-6AAB-92	158
1SQA011117R0001	A3SSGB-6AAB-92	158
1SQA011118R0001	A3SSGC-6AAB-92	158
1SQA011119R0001	A3SSGD-6AAB-92	159
SK615502-D		47, 110
SK615512-1		47, 110
SK615516-1		124
SK615546-1		136
SK615546-13		136
SK615546-15		136
SK615546-2		136
SK615546-3		136
SK615546-4		136
SK615546-5		136
SK615546-6		136
SK615546-8		136
SK615550-29	CBK-NPE7	137
SK615550-44	CBK-NPE19	137
SK615550-61	CBK-NPE90	137
SK615550-62	CBK-NPE91	137
SK615550-80	CBK-NPE26	137
SK615550-81	CBK-NPE99	137
SK615552-13	CBK-NPE1	137
SK615552-14	CBK-NPE2	137
SK615552-15	CBK-NPE3	137
SK615552-16	CBK-NPE4	137
SK615552-17	CBK-NPE5	137
SK615552-21	CBK-NPE10	137
SK615552-22	CBK-NPE11	137
SK615552-23	CBK-NPE12	137
SK615552-25	CBK-NPE13	137
SK615552-27	CBK-NPE14	137
SK615552-28	CBK-NPE15	137
SK615552-29	CBK-NPE16	137
SK615552-30	CBK-NPE18	137
SK615552-31	CBK-NPE20	137
SK615552-32	CBK-NPE21	137
SK615562-12	CBK-NPE94	137
SK615562-82		137
SK615562-87		38
SK615562-88		38
SK616016-2		47, 110
SK616021-71		48, 111
SK616021-72		48, 111
SK616021-73		48, 111
	CBK-NPF10	138
	CBK-NPF11	138
	CBK-NPF14	138
	CBK-NPF16	138
	CBK-NPF19	138
	CBK-NPF20	138

Order code	Type	Page
	CBK-NPF34	138
	CBK-NPF38	138
	CBK-NPF40	138
	CBK-NPF24	138
	CBK-NPF24A	138
	CBK-NPF26	138
	104PEG11	171
	104PEG11C	171
	104PEG11D	171
	104PEG11E	171
	104PEG11S	171
	104PEG11T	171
	104PEG12	171
	104PEG12G	171
	104PEG12K	171
	104PEG13	171
	104PEG13P	171
	104PEG14	171
	104PEG23	171
	104PES11	171
	104PES11C	171
	104PES11E	171
	104PES12	171
	104PES12G	171
	104PES13	171
	104PES14	171
	104PES23	171
	CR104PXN*B	172
	CR104PXN*BP006	172
	CR104PXN*BP007	172
	CR104PXN*BP008	172
	CR104PXN*BP010	172
	CR104PXN*BP011	172
	CR104PXN*BP012	172
	CR104PXN*BP013	172
	CR104PXN*BP014	172
	CR104PXN*BP017	172
	CR104PXN*BP018	172
	CR104PXN*BP019	172
	CR104PXN*BP020	172
	CR104PXN*BP021	172
	CR104PXN*BP022	172
	CR104PXN*BP023	172
	CR104PXN*BP024	172
	CR104PXN*BP025	172
	CR104PXN*BP026	172
	CR104PXN*BP027	172
	CR104PXN*BP028	172
	CR104PXN*BP030	172
	CR104PXN*BP031	172
	CR104PXN*BP032	172

Index

Order code classification

Order code	Type	Page
	CR104PXN*BP033	172
	CR104PXN*BP034	172
	CR104PXN*BP036	172
	CR104PXN*BP037	172
	CR104PXN*BP038	172
	CR104PXN*BP043	172
	CR104PXN*BP047	172
	CR104PXN*BP050	173
	CR104PXN*BP051	173
	CR104PXN*BP052	173
	CR104PXN*BP053	173
	CR104PXN*BP054	173
	CR104PXN*BP055	173
	CR104PXN*BP056	173
	CR104PXN*BP057	173
	CR104PXN*BP058	173
	CR104PXN*BP059	173
	CR104PXN*BP060	173
	CR104PXN*BP061	173
	CR104PXN*BP062	173
	CR104PXN*BP063	173
	CR104PXN*BP064	173
	CR104PXN*BP065	173
	CR104PXN*BP066	173
	CR104PXN*BP067	173
	CR104PXN*BP068	173
	CR104PXN*BP069	173
	CR104PXN*BP070	173
	CR104PXN*BP071	173
	CR104PXN*BP072	173
	CR104PXN*BP073	173
	CR104PXN*BP074	173
	CR104PXN*BP076	173
	CR104PXN*BP077	173
	CR104PXN*BP079	173
	CR104PXN*BP080	173
	CR104PXN*BP081	173
	CR104PXN*BP082	173
	CR104PXN*BP083	173
	CR104PXN*BP084	172
	CR104PXN*BP085	172
	CR104PXN*BP086	173
	CR104PXN*BP087	173
	CR104PXN*R	172
	CR104PXN*RP009	172
	CR104PXN*RP040	172
	CR104PXN*RP041	172
	CR104PXN*RP048	172
	CR104PXN1BP090	173
	CR104PXN1BP091	173
	CR104PXN6E	172
	CR104PXN6EP009	173
	CR104PXN6EP092	173

Index

Type classification

Type	Order code	Page
080CP-N	1SFA170190R8000	80
080CP-R	1SFA170191R8000	80
080CP-T	1SFA170198R8000	80
080CP-V	1SFA170192R8000	80
080SP-1	1SFA170801R1001	81
080SP-1M	1SFA170831R1001	81
080SP-2	1SFA170802R1002	81
080SP-2M	1SFA170832R1002	81
080SP-3	1SFA170803R1003	81
080SP-4	1SFA170804R1004	81
080SP-4M	1SFA170834R1004	81
080SP-6	1SFA170806R1006	81
104PEG11		171
104PEG11C		171
104PEG11D		171
104PEG11E		171
104PEG11S		171
104PEG11T		171
104PEG12		171
104PEG12G		171
104PEG12K		171
104PEG13		171
104PEG13P		171
104PEG14		171
104PEG23		171
104PES11		171
104PES11C		171

Type	Order code	Page
104PES11E		171
104PES12		171
104PES12G		171
104PES13		171
104PES13P		171
104PES14		171
104PES23		171
A3L4AA-6L2C	1SQA009077R0001	155
A3L4AA-6L2G	1SQA009078R0001	155
A3L4AA-6L2L	1SQA009079R0001	155
A3L4AA-6L2M	1SQA009080R0001	155
A3L4AA-6L2R	1SQA009081R0001	155
A3L4AA-6L2W	1SQA009082R0001	155
A3L4AA-6L4C	1SQA009083R0001	155
A3L4AA-6L4G	1SQA009084R0001	155
A3L4AA-6L4L	1SQA009085R0001	155
A3L4AA-6L4M	1SQA009086R0001	155
A3L4AA-6L4R	1SQA009087R0001	155
A3L4AA-6L4W	1SQA009088R0001	155
A3L4AA-6L5C	1SQA009089R0001	156
A3L4AA-6L5G	1SQA009090R0001	156
A3L4AA-6L5L	1SQA009091R0001	156
A3L4AA-6L5M	1SQA009092R0001	156
A3L4AA-6L5R	1SQA009093R0001	156
A3L4AA-6L5W	1SQA009094R0001	156
A3L4AA-6L6C	1SQA009095R0001	156
A3L4AA-6L6G	1SQA009096R0001	156
A3L4AA-6L6L	1SQA009097R0001	156
A3L4AA-6L6M	1SQA009098R0001	156
A3L4AA-6L6R	1SQA009099R0001	156
A3L4AA-6L6W	1SQA009100R0001	156
A3L4AA-6L7G	1SQA009101R0001	156
A3L4AA-6L7R	1SQA009102R0001	156
A3L4AA-6L8C	1SQA009103R0001	156
A3L4AA-6L8G	1SQA009104R0001	156
A3L4AA-6L8L	1SQA009105R0001	156
A3L4AA-6L8M	1SQA009106R0001	156
A3L4AA-6L8R	1SQA009107R0001	156
A3L4AA-6L8W	1SQA009108R0001	156
A3L4AA-6L9C	1SQA010492R0001	156
A3L4AA-6L9G	1SQA009109R0001	156
A3L4AA-6L9L	1SQA010494R0001	156
A3L4AA-6L9M	1SQA010493R0001	156
A3L4AA-6L9R	1SQA009110R0001	156
A3L4AA-6L9W	1SQA009111R0001	156
A3L4AA-6LBG	1SQA009112R0001	155
A3L4AA-6LBM	1SQA009113R0001	155
A3L4AA-6LBR	1SQA009114R0001	155
A3L4AA-6LBW	1SQA009115R0001	155
A3L4AA-6LLG	1SQA009116R0001	156
A3L4AA-6LLM	1SQA009117R0001	156
A3L4AA-6LLR	1SQA009118R0001	156

Type	Order code	Page
A3L4AA-6LLW	1SQA009119R0001	156
A3L4AA-6LUC	1SQA010465R0001	155
A3L4AA-6LUG	1SQA010460R0001	155
A3L4AA-6LUL	1SQA010464R0001	155
A3L4AA-6LUM	1SQA010461R0001	155
A3L4AA-6LUR	1SQA010462R0001	155
A3L4AA-6LUW	1SQA010463R0001	155
A3L4AA-6N0N	1SQA010199R0001	156
A3L4AA-6N4N	1SQA009120R0001	155
A3PB41-600B-00	1SQA009121R0001	147
A3PB41-600B-01	1SQA009122R0001	147
A3PB41-600B-10	1SQA009123R0001	147
A3PB41-600B-91	1SQA010745R0001	147
A3PB41-600G-00	1SQA009125R0001	147
A3PB41-600G-01	1SQA009126R0001	147
A3PB41-600G-10	1SQA009127R0001	147
A3PB41-600G-91	1SQA010746R0001	147
A3PB41-600R-00	1SQA009129R0001	147
A3PB41-600R-01	1SQA009130R0001	147
A3PB41-600R-10	1SQA009131R0001	147
A3PB41-600R-91	1SQA010747R0001	147
A3PB41-600Y-00	1SQA009133R0001	147
A3PB41-600Y-01	1SQA009134R0001	147
A3PB41-600Y-10	1SQA009135R0001	147
A3PB41-600Y-91	1SQA010748R0001	147
A3PB61-600B-00	1SQA009137R0001	149
A3PB61-600B-01	1SQA009138R0001	149
A3PB61-600B-10	1SQA009139R0001	149
A3PB61-600B-91	1SQA010749R0001	149
A3PB61-600G-00	1SQA009141R0001	149
A3PB61-600G-01	1SQA009142R0001	149
A3PB61-600G-10	1SQA009143R0001	149
A3PB61-600G-91	1SQA010750R0001	149
A3PB61-600R-00	1SQA009145R0001	149
A3PB61-600R-01	1SQA009146R0001	149
A3PB61-600R-10	1SQA009147R0001	149
A3PB61-600R-91	1SQA010751R0001	149
A3PB61-600Y-00	1SQA009149R0001	149
A3PB61-600Y-01	1SQA009150R0001	149
A3PB61-600Y-91	1SQA010752R0001	149
A3PBE1-6007-00	1SQA009152R0001	143
A3PBE1-6007-01	1SQA009153R0001	143
A3PBE1-6007-10	1SQA009154R0001	143
A3PBE1-6007-91	1SQA010753R0001	143
A3PBE1-600B-00	1SQA009156R0001	143
A3PBE1-600B-01	1SQA009157R0001	143
A3PBE1-600B-10	1SQA009158R0001	143
A3PBE1-600B-91	1SQA010754R0001	143
A3PBE1-600G-00	1SQA009160R0001	143
A3PBE1-600G-01	1SQA009161R0001	143
A3PBE1-600G-10	1SQA009162R0001	143
A3PBE1-600G-91	1SQA010755R0001	143
A3PBE1-600R-00	1SQA009164R0001	143
A3PBE1-600R-01	1SQA009165R0001	143
A3PBE1-600R-10	1SQA009166R0001	143

Index

Type classification

Type	Order code	Page
A3PBE1-600R-91	1SQA010756R0001	143
A3PBE1-600Y-00	1SQA009168R0001	143
A3PBE1-600Y-10	1SQA009169R0001	143
A3PBE1-600Y-91	1SQA010757R0001	143
A3PBF1-6007-00	1SQA009171R0001	142
A3PBF1-6007-01	1SQA009172R0001	142
A3PBF1-6007-10	1SQA009173R0001	142
A3PBF1-6007-91	1SQA010758R0001	142
A3PBF1-600B-00	1SQA009175R0001	142
A3PBF1-600B-01	1SQA009176R0001	142
A3PBF1-600B-10	1SQA009177R0001	142
A3PBF1-600B-91	1SQA010759R0001	142
A3PBF1-600G-00	1SQA009179R0001	142
A3PBF1-600G-01	1SQA009180R0001	142
A3PBF1-600G-10	1SQA009181R0001	142
A3PBF1-600G-91	1SQA010760R0001	142
A3PBF1-600L-00	1SQA009183R0001	142
A3PBF1-600L-10	1SQA009184R0001	142
A3PBF1-600L-91	1SQA010761R0001	142
A3PBF1-600R-00	1SQA009187R0001	142
A3PBF1-600R-01	1SQA009188R0001	142
A3PBF1-600R-10	1SQA009189R0001	142
A3PBF1-600R-91	1SQA010762R0001	142
A3PBF1-600Y-00	1SQA009186R0001	142
A3PBF1-600Y-01	1SQA009191R0001	142
A3PBF1-600Y-10	1SQA009192R0001	142
A3PBF1-600Y-91	1SQA010763R0001	142
A3PBM1-600R-01	1SQA010177R0001	148
A3PBN1-600N-00	1SQA010178R0001	154
A3PL41-6L2G-91	1SQA010764R0001	150
A3PL41-6L2M-91	1SQA010765R0001	150
A3PL41-6L2R-91	1SQA010766R0001	150
A3PL41-6L4G-91	1SQA010767R0001	150
A3PL41-6L4M-91	1SQA010768R0001	150
A3PL41-6L4R-91	1SQA010769R0001	150
A3PL41-6L5G-91	1SQA010770R0001	150
A3PL41-6L5R-00	1SQA009202R0001	150
A3PL41-6L5R-91	1SQA010771R0001	150
A3PL41-6L6R-91	1SQA010772R0001	150
A3PL41-6L9R-91	1SQA010773R0001	150
A3PL41-6LBG-91	1SQA010774R0001	150
A3PL41-6LBM-91	1SQA010775R0001	150
A3PL41-6LBR-10	1SQA009208R0001	150
A3PL41-6LLR-91	1SQA010776R0001	150
A3PL61-6L2G-91	1SQA010777R0001	153
A3PL61-6L2R-91	1SQA010778R0001	153
A3PL61-6L4G-91	1SQA010779R0001	153
A3PL61-6L4R-91	1SQA010780R0001	153
A3PL61-6L5R-91	1SQA010781R0001	153
A3PL61-6LLM-91	1SQA010782R0001	153
A3PL61-6LLR-91	1SQA010783R0001	153
A3PLE1-6L2C-91	1SQA010784R0001	144
A3PLE1-6L2G-10	1SQA009218R0001	144
A3PLE1-6L2G-91	1SQA010785R0001	144
A3PLE1-6L2L-91	1SQA010786R0001	144

Type	Order code	Page
A3PLE1-6L2M-00	1SQA009221R0001	144
A3PLE1-6L2M-10	1SQA009222R0001	144
A3PLE1-6L2M-91	1SQA010787R0001	144
A3PLE1-6L2R-00	1SQA009224R0001	144
A3PLE1-6L2R-91	1SQA010788R0001	144
A3PLE1-6L2W-10	1SQA009226R0001	144
A3PLE1-6L2W-91	1SQA010789R0001	144
A3PLE1-6L4C-91	1SQA010790R0001	144
A3PLE1-6L4G-00	1SQA009229R0001	144
A3PLE1-6L4G-10	1SQA009230R0001	144
A3PLE1-6L4G-91	1SQA010791R0001	144
A3PLE1-6L4L-91	1SQA010792R0001	144
A3PLE1-6L4M-00	1SQA009233R0001	144
A3PLE1-6L4M-91	1SQA010793R0001	144
A3PLE1-6L4R-00	1SQA009235R0001	144
A3PLE1-6L4R-10	1SQA009236R0001	144
A3PLE1-6L4R-91	1SQA010794R0001	144
A3PLE1-6L4W-10	1SQA009238R0001	144
A3PLE1-6L4W-91	1SQA010795R0001	144
A3PLE1-6L5C-91	1SQA010796R0001	145
A3PLE1-6L5G-00	1SQA009241R0001	145
A3PLE1-6L5G-10	1SQA009242R0001	145
A3PLE1-6L5G-91	1SQA010797R0001	145
A3PLE1-6L5L-91	1SQA010798R0001	145
A3PLE1-6L5M-10	1SQA009245R0001	145
A3PLE1-6L5M-91	1SQA010799R0001	145
A3PLE1-6L5R-10	1SQA009247R0001	145
A3PLE1-6L5R-91	1SQA010800R0001	145
A3PLE1-6L5W-91	1SQA010801R0001	145
A3PLE1-6L6C-91	1SQA010839R0001	145
A3PLE1-6L6G-91	1SQA010802R0001	145
A3PLE1-6L6L-91	1SQA010803R0001	145
A3PLE1-6L6M-91	1SQA010804R0001	145
A3PLE1-6L6R-91	1SQA010805R0001	145
A3PLE1-6L6W-91	1SQA010806R0001	145
A3PLE1-6L7C-91	1SQA010825R0001	145
A3PLE1-6L7G-91	1SQA010820R0001	145
A3PLE1-6L7L-91	1SQA010824R0001	145
A3PLE1-6L7M-91	1SQA010822R0001	145
A3PLE1-6L7R-91	1SQA010821R0001	145
A3PLE1-6L7W-91	1SQA010823R0001	145
A3PLE1-6L8C-91	1SQA010840R0001	145
A3PLE1-6L8G-91	1SQA010807R0001	145
A3PLE1-6L8L-91	1SQA010837R0001	145
A3PLE1-6L8M-91	1SQA010808R0001	145
A3PLE1-6L8R-91	1SQA010809R0001	145
A3PLE1-6L8W-91	1SQA010835R0001	145
A3PLE1-6L9C-91	1SQA010841R0001	145
A3PLE1-6L9G-91	1SQA010810R0001	145
A3PLE1-6L9L-91	1SQA010838R0001	145
A3PLE1-6L9M-91	1SQA010834R0001	145
A3PLE1-6L9R-91	1SQA010811R0001	145
A3PLE1-6L9W-91	1SQA010836R0001	145
A3PLE1-6LBG-91	1SQA010812R0001	146
A3PLE1-6LBL-91	1SQA010813R0001	146

Type	Order code	Page
A3PLE1-6LBM-91	1SQA010814R0001	146
A3PLE1-6LBR-91	1SQA010815R0001	146
A3PLE1-6LLC-91	1SQA010833R0001	146
A3PLE1-6LLG-91	1SQA010816R0001	146
A3PLE1-6LLL-91	1SQA010832R0001	146
A3PLE1-6LLM-10	1SQA009265R0001	146
A3PLE1-6LLM-91	1SQA010817R0001	146
A3PLE1-6LLR-10	1SQA009267R0001	146
A3PLE1-6LLR-91	1SQA010818R0001	146
A3PLE1-6LLW-91	1SQA010819R0001	146
A3PLE1-6LUC-91	1SQA010831R0001	146
A3PLE1-6LUG-91	1SQA010826R0001	146
A3PLE1-6LUL-91	1SQA010830R0001	146
A3PLE1-6LUM-91	1SQA010827R0001	146
A3PLE1-6LUR-91	1SQA010828R0001	146
A3PLE1-6LUW-91	1SQA010829R0001	146
A3PP42-600B-01	1SQA009270R0001	147
A3PP42-600B-91	1SQA010842R0001	147
A3PP42-600G-01	1SQA009272R0001	147
A3PP42-600R-00	1SQA009273R0001	147
A3PP42-600R-01	1SQA009274R0001	147
A3PP42-600R-91	1SQA010843R0001	147
A3PP42-600Y-01	1SQA009276R0001	147
A3PP42-6L2G-91	1SQA010850R0001	150
A3PP42-6L2M-91	1SQA010851R0001	150
A3PP42-6L2R-01	1SQA009279R0001	150
A3PP42-6L2R-10	1SQA009280R0001	150
A3PP42-6L2R-91	1SQA010852R0001	150
A3PP42-6L4G-91	1SQA010853R0001	150
A3PP42-6L4M-91	1SQA010854R0001	150
A3PP42-6L4R-10	1SQA009284R0001	150
A3PP42-6L4R-91	1SQA010855R0001	150
A3PP42-6L5G-91	1SQA010856R0001	151
A3PP42-6L5M-91	1SQA010857R0001	151
A3PP42-6L5R-00	1SQA009288R0001	151
A3PP42-6L5R-01	1SQA009289R0001	151
A3PP42-6L5R-91	1SQA010858R0001	151
A3PP42-6L8G-91	1SQA010859R0001	151
A3PP42-6L9R-91	1SQA010860R0001	151
A3PP42-6LLG-91	1SQA010861R0001	151
A3PP42-6LLR-91	1SQA010862R0001	151
A3PP43-600R-1N	1SQA010844R0001	147
A3PP43-6L4G-1N	1SQA010863R0001	151
A3PP43-6L4R-1N	1SQA010864R0001	151
A3PP43-6L5R-1N	1SQA010865R0001	151
A3PP43-6L8G-1N	1SQA010866R0001	151
A3PP44-600R-1N	1SQA010845R0001	147
A3PP44-6L2R-1N	1SQA010867R0001	151
A3PP44-6L4R-1N	1SQA010868R0001	151
A3PP44-6L5R-1N	1SQA010869R0001	151
A3PP62-600R-00	1SQA009304R0001	149
A3PP62-600R-01	1SQA009305R0001	149
A3PP62-600R-91	1SQA010846R0001	149
A3PP62-6L2R-91	1SQA010870R0001	153
A3PPM2-600N-00	1SQA009308R0001	148

Index

Type classification

Type	Order code	Page
A3PPM2-600R-00	1SQA009309R0001	148
A3PPM2-600R-01	1SQA009310R0001	148
A3PPM2-600R-10	1SQA009311R0001	148
A3PPM2-600R-91	1SQA010847R0001	148
A3PPM2-6L2R-91	1SQA010871R0001	152
A3PPM2-6L4G-01	1SQA009314R0001	152
A3PPM2-6L4G-91	1SQA010872R0001	152
A3PPM2-6L4R-00	1SQA009316R0001	152
A3PPM2-6L4R-01	1SQA009317R0001	152
A3PPM2-6L4R-91	1SQA010873R0001	152
A3PPM2-6L4W-91	1SQA010874R0001	152
A3PPM2-6LBR-01	1SQA009320R0001	148
A3PPM3-600R-1N	1SQA010848R0001	152
A3PPM3-6L2R-1N	1SQA010875R0001	152
A3PPM3-6L4G-1N	1SQA010876R0001	152
A3PPM3-6L4M-1N	1SQA010877R0001	152
A3PPM3-6L4R-00	1SQA009325R0001	152
A3PPM3-6L4R-1N	1SQA010878R0001	152
A3PPM4-600R-1N	1SQA010849R0001	148
A3PPM4-6L2R-00	1SQA009328R0001	152
A3PPM4-6L2R-1N	1SQA010879R0001	152
A3PPM4-6L4R-1N	1SQA010880R0001	152
A3PPN2-600N-00	1SQA010200R0001	154
A3PT4R-600N-00	1SQA009332R0001	154
A3PT4R-600R-00	1SQA009333R0001	147
A3PT4R-600R-01	1SQA009334R0001	147
A3PT4R-600R-10	1SQA009335R0001	147
A3PT4R-600R-91	1SQA010881R0001	147
A3SKAE-6AA1-00	1SQA010170R0001	163
A3SKAE-6AA1-10	1SQA010952R0001	163
A3SKAE-6AA1-20	1SQA011084R0001	163
A3SKAE-6AA1-91	1SQA010953R0001	163
A3SKAF-6AA1-00	1SQA010171R0001	163
A3SKAF-6AA1-10	1SQA010954R0001	163
A3SKAF-6AA1-91	1SQA010955R0001	163
A3SKAG-6AA1-00	1SQA010210R0001	163
A3SKAG-6AA1-91	1SQA010956R0001	163
A3SKAX-6AA1-00	1SQA009345R0001	163
A3SKAX-6AA1-91	1SQA010957R0001	163
A3SKBE-6AA1-00	1SQA009347R0001	164
A3SKBE-6AA1-91	1SQA010958R0001	163
A3SKBE-6AA1-92	1SQA011085R0001	164
A3SKBF-6AA1-00	1SQA010412R0001	163
A3SKBF-6AA1-91	1SQA010959R0001	163
A3SKBF-6AA1-92	1SQA011086R0001	164
A3SKBH-6AA1-00	1SQA009350R0001	164
A3SKBH-6AA1-91	1SQA010960R0001	163
A3SKBH-6AA1-92	1SQA011087R0001	163
A3SKBV-6AA1-00	1SQA009352R0001	164
A3SKBV-6AA1-91	1SQA010961R0001	164
A3SKBV-6AA1-92	1SQA011088R0001	164
A3SKBY-6AA1-00	1SQA009354R0001	164
A3SKCE-6AA1-00	1SQA009355R0001	164
A3SKCE-6AA1-91	1SQA010962R0001	164
A3SKCF-6AA1-00	1SQA010413R0001	163

Type	Order code	Page
A3SKCF-6AA1-91	1SQA010963R0001	164
A3SKCG-6AA1-00	1SQA009358R0001	164
A3SKCG-6AA1-91	1SQA010964R0001	164
A3SKCH-6AA1-00	1SQA009360R0001	164
A3SKCH-6AA1-91	1SQA010965R0001	164
A3SKCT-6AA1-00	1SQA009362R0001	164
A3SKCU-6AA1-00	1SQA010414R0001	163
A3SKCU-6AA1-91	1SQA010966R0001	164
A3SKCV-6AA1-00	1SQA009364R0001	164
A3SKCV-6AA1-91	1SQA010967R0001	164
A3SKCY-6AA1-00	1SQA009366R0001	164
A3SKCY-6AA1-91	1SQA010968R0001	164
A3SKCY-6AA1-92	1SQA011089R0001	164
A3SKDE-6AA1-00	1SQA009368R0001	164
A3SKDE-6AA1-91	1SQA010969R0001	163
A3SKDE-6AA1-92	1SQA011090R0001	164
A3SKDF-6AA1-00	1SQA010415R0001	163
A3SKDF-6AA1-91	1SQA010970R0001	164
A3SKDH-6AA1-00	1SQA010416R0001	163
A3SKDH-6AA1-91	1SQA010971R0001	164
A3SKDV-6AA1-00	1SQA009372R0001	164
A3SKDY-6AA1-00	1SQA010417R0001	164
A3SKDY-6AA1-91	1SQA010972R0001	164
A3SKDY-6AA1-92	1SQA011091R0001	163
A3SKEE-6AA1-00	1SQA010418R0001	163
A3SKEE-6AA1-91	1SQA010973R0001	163
A3SKEE-6AA1-92	1SQA011092R0001	163
A3SKET-6AA1-00	1SQA010419R0001	164
A3SKET-6AA1-91	1SQA010974R0001	164
A3SKET-6AA1-92	1SQA011093R0001	163
A3SKEV-6AA1-00	1SQA009376R0001	163
A3SKEV-6AA1-91	1SQA010975R0001	164
A3SKEV-6AA1-92	1SQA011094R0001	163
A3SKGE-6AA1-00	1SQA009378R0001	163
A3SKGE-6AA1-92	1SQA010976R0001	163
A3SKGG-6AA1-00	1SQA009380R0001	163
A3SKGH-6AA1-00	1SQA009381R0001	163
A3SKGH-6AA1-92	1SQA010977R0001	163
A3SLAA-6AAB-00	1SQA010202R0001	157
A3SLAA-6AAB-91	1SQA010903R0001	157
A3SLAC-6AAB-00	1SQA010442R0001	159
A3SLAC-6AAB-91	1SQA010904R0001	157
A3SLBA-6AAB-00	1SQA010443R0001	160
A3SLBA-6AAB-91	1SQA010905R0001	160
A3SLBA-6AAB-92	1SQA011095R0001	160
A3SLBB-6AAB-00	1SQA010444R0001	160
A3SLBB-6AAB-91	1SQA010906R0001	160
A3SLBB-6AAB-92	1SQA011096R0001	160
A3SLBC-6AAB-00	1SQA009389R0001	160
A3SLBC-6AAB-91	1SQA010907R0001	160
A3SLBC-6AAB-92	1SQA011097R0001	160
A3SLBD-6AAB-00	1SQA009391R0001	161
A3SLBD-6AAB-91	1SQA010908R0001	161
A3SLBD-6AAB-92	1SQA011098R0001	161
A3SLCA-6AAB-00	1SQA009393R0001	160

Type	Order code	Page
A3SLCA-6AAB-91	1SQA010909R0001	160
A3SLCB-6AAB-00	1SQA009395R0001	160
A3SLCB-6AAB-91	1SQA010910R0001	160
A3SLCC-6AAB-00	1SQA010445R0001	160
A3SLCC-6AAB-91	1SQA010911R0001	160
A3SLCD-6AAB-00	1SQA009398R0001	161
A3SLCD-6AAB-91	1SQA010912R0001	161
A3SLDA-6AAB-00	1SQA010446R0001	160
A3SLDA-6AAB-91	1SQA010913R0001	160
A3SLDC-6AAB-00	1SQA010447R0001	160
A3SLDC-6AAB-91	1SQA010914R0001	160
A3SLDD-6AAB-00	1SQA010448R0001	161
A3SLDD-6AAB-91	1SQA010915R0001	161
A3SLDD-6AAB-92	1SQA011099R0001	161
A3SLEA-6AAB-00	1SQA010449R0001	160
A3SLEA-6AAB-91	1SQA010916R0001	160
A3SLEA-6AAB-92	1SQA011100R0001	160
A3SLEC-6AAB-00	1SQA010450R0001	160
A3SLEC-6AAB-91	1SQA010917R0001	160
A3SLED-6AAB-00	1SQA010451R0001	161
A3SLED-6AAB-91	1SQA010918R0001	161
A3SLED-6AAB-92	1SQA011101R0001	161
A3SLGA-6AAB-00	1SQA009406R0001	160
A3SLGA-6AAB-91	1SQA010919R0001	160
A3SLGA-6AAB-92	1SQA011102R0001	160
A3SLGB-6AAB-00	1SQA010452R0001	160
A3SLGB-6AAB-91	1SQA010920R0001	160
A3SLGB-6AAB-92	1SQA011103R0001	160
A3SLGC-6AAB-00	1SQA010453R0001	160
A3SLGC-6AAB-91	1SQA010921R0001	160
A3SLGC-6AAB-92	1SQA011104R0001	160
A3SLGD-6AAB-00	1SQA009410R0001	161
A3SLGD-6AAB-91	1SQA010922R0001	161
A3SLGD-6AAB-92	1SQA011105R0001	161
A3SLHA-6AAB-00	1SQA010454R0001	161
A3SLHA-6AAB-92	1SQA010923R0001	161
A3SSAA-6AAB-00	1SQA010161R0001	157
A3SSAA-6AAB-01	1SQA010924R0001	157
A3SSAA-6AAB-10	1SQA010925R0001	157
A3SSAA-6AAB-20	1SQA010984R0001	157
A3SSAA-6AAB-21	1SQA010985R0001	157
A3SSAA-6AAB-91	1SQA010926R0001	157
A3SSAA-6AAG-00	1SQA010204R0001	157
A3SSAA-6AAR-00	1SQA010205R0001	157
A3SSAA-6L2G-00	1SQA009417R0001	162
A3SSAA-6L2G-10	1SQA010882R0001	162
A3SSAA-6L2G-91	1SQA010883R0001	162
A3SSAA-6L2L-00	1SQA010421R0001	162
A3SSAA-6L2L-10	1SQA010884R0001	162
A3SSAA-6L2L-91	1SQA010885R0001	162
A3SSAA-6L2R-00	1SQA009422R0001	162
A3SSAA-6L2R-91	1SQA010886R0001	162
A3SSAA-6L4G-00	1SQA009424R0001	162
A3SSAA-6L4G-91	1SQA010887R0001	162
A3SSAA-6L4L-00	1SQA010424R0001	162

Index

Type classification

Type	Order code	Page
A3SSAA-6L4L-91	1SQA010888R0001	162
A3SSAA-6L4M-00	1SQA010425R0001	162
A3SSAA-6L4M-91	1SQA010889R0001	162
A3SSAA-6L4R-00	1SQA009428R0001	162
A3SSAA-6L4R-91	1SQA010890R0001	162
A3SSAA-6L5G-00	1SQA009430R0001	162
A3SSAA-6L5G-91	1SQA010891R0001	162
A3SSAA-6L5M-00	1SQA010428R0001	162
A3SSAA-6L5M-91	1SQA010892R0001	162
A3SSAA-6L5R-00	1SQA009433R0001	162
A3SSAA-6L5R-91	1SQA010893R0001	162
A3SSAA-6L6G-00	1SQA010430R0001	162
A3SSAA-6L6G-91	1SQA010894R0001	162
A3SSAC-6AAB-00	1SQA010203R0001	157
A3SSAC-6AAB-91	1SQA010927R0001	157
A3SSBA-6AAB-00	1SQA010172R0001	157
A3SSBA-6AAB-10	1SQA010928R0001	157
A3SSBA-6AAB-20	1SQA011106R0001	157
A3SSBA-6AAB-21	1SQA010993R0001	157
A3SSBA-6AAB-91	1SQA010929R0001	157
A3SSBA-6AAB-92	1SQA011107R0001	157
A3SSBA-6L2G-00	1SQA009441R0001	162
A3SSBA-6L2G-91	1SQA010999R0001	162
A3SSBA-6L2R-00	1SQA010432R0001	162
A3SSBA-6L2R-91	1SQA010895R0001	162
A3SSBB-6AAB-00	1SQA010206R0001	158
A3SSBB-6AAB-91	1SQA010930R0001	158
A3SSBB-6AAB-92	1SQA011108R0001	158
A3SSBC-6AAB-00	1SQA010207R0001	158
A3SSBC-6AAB-91	1SQA010931R0001	158
A3SSBC-6AAB-92	1SQA011109R0001	158
A3SSBD-6AAB-00	1SQA010173R0001	159
A3SSBD-6AAB-91	1SQA010932R0001	159
A3SSBD-6AAB-92	1SQA010933R0001	159
A3SSCA-6AAB-00	1SQA010162R0001	157
A3SSCA-6AAB-10	1SQA010934R0001	157
A3SSCA-6AAB-12	1SQA010989R0001	157
A3SSCA-6AAB-91	1SQA010935R0001	157
A3SSCA-6L2G-00	1SQA009453R0001	162
A3SSCA-6L2G-91	1SQA010896R0001	162
A3SSCA-6L2M-00	1SQA010434R0001	162
A3SSCA-6L2M-91	1SQA010897R0001	162
A3SSCA-6L4G-00	1SQA009456R0001	162
A3SSCA-6L4G-91	1SQA010898R0001	162
A3SSCA-6L4L-00	1SQA010436R0001	162
A3SSCA-6L4L-91	1SQA010899R0001	162
A3SSCA-6L4R-00	1SQA009459R0001	162
A3SSCA-6L4R-91	1SQA010900R0001	162
A3SSCA-6L5G-00	1SQA010438R0001	162
A3SSCA-6L5G-91	1SQA010901R0001	162
A3SSCA-6L5R-00	1SQA009462R0001	162
A3SSCA-6L5R-91	1SQA010902R0001	162
A3SSCB-6AAB-00	1SQA010163R0001	158
A3SSCB-6AAB-91	1SQA010936R0001	158
A3SSCC-6AAB-00	1SQA010208R0001	158

Type	Order code	Page
A3SSCC-6AAB-91	1SQA010937R0001	158
A3SSCC-6AAB-92	1SQA011111R0001	158
A3SSCD-6AAB-00	1SQA010164R0001	159
A3SSCD-6AAB-10	1SQA010938R0001	159
A3SSCD-6AAB-91	1SQA010939R0001	159
A3SSDA-6AAB-00	1SQA010209R0001	157
A3SSDA-6AAB-91	1SQA010940R0001	157
A3SSDB-6AAB-00	1SQA010440R0001	158
A3SSDB-6AAB-91	1SQA010941R0001	158
A3SSDC-6AAB-00	1SQA009474R0001	158
A3SSDC-6AAB-91	1SQA010942R0001	158
A3SSDC-6AAB-92	1SQA011113R0001	158
A3SSDD-6AAB-00	1SQA009476R0001	159
A3SSDD-6AAB-91	1SQA010943R0001	159
A3SSEA-6AAB-00	1SQA010175R0001	158
A3SSEA-6AAB-91	1SQA010944R0001	158
A3SSEB-6AAB-00	1SQA009480R0001	158
A3SSEC-6AAB-00	1SQA009481R0001	158
A3SSEC-6AAB-91	1SQA010945R0001	158
A3SSED-6AAB-00	1SQA009483R0001	159
A3SSED-6AAB-91	1SQA010946R0001	159
A3SSGA-6AAB-00	1SQA010165R0001	158
A3SSGA-6AAB-12	1SQA010991R0001	158
A3SSGA-6AAB-91	1SQA010947R0001	158
A3SSGB-6AAB-00	1SQA010441R0001	158
A3SSGB-6AAB-91	1SQA010948R0001	158
A3SSGB-6AAB-92	1SQA011117R0001	158
A3SSGC-6AAB-00	1SQA009488R0001	158
A3SSGC-6AAB-91	1SQA010949R0001	158
A3SSGC-6AAB-92	1SQA011118R0001	158
A3SSGD-6AAB-00	1SQA009490R0001	159
A3SSGD-6AAB-91	1SQA010950R0001	159
A3SSGD-6AAB-92	1SQA011119R0001	159
A3SSHA-6AAB-00	1SQA010174R0001	159
A3SSHA-6AAB-92	1SQA010951R0001	159
A3XBL2G	1SQA010193R0001	170
A3XBL2L	1SQA010401R0001	170
A3XBL2R	1SQA010192R0001	170
A3XBL2W	1SQA010194R0001	170
A3XBL2Y	1SQA010402R0001	170
A3XBL4G	1SQA010403R0001	170
A3XBL4L	1SQA010197R0001	170
A3XBL4R	1SQA010195R0001	170
A3XBL4W	1SQA010198R0001	170
A3XBL4Y	1SQA010196R0001	170
A3XBL6G	1SQA010190R0001	170
A3XBL6L	1SQA010405R0001	170
A3XBL6R	1SQA010199R0001	170
A3XBL6W	1SQA010191R0001	170
A3XBL6Y	1SQA010406R0001	170
A3XC01	1SQA009494R0001	167
A3XC0B	1SQA010979R0001	167
A3XC0M	1SQA010981R0001	167
A3XC0N	1SQA010980R0001	167
A3XC10	1SQA009496R0001	167

Type	Order code	Page
A3XC91	1SQA010978R0001	167
A3XGCC	1SQA010211R0001	168
A3XGCE	1SQA009500R0001	168
A3XGCF	1SQA009501R0001	168
A3XGGL	1SQA010180R0001	168
A3XGGP	1SQA010181R0001	168
A3XGLM	1SQA009502R0001	168
A3XGLN	1SQA009503R0001	168
A3XGLP	1SQA009504R0001	168
A3XGLW	1SQA010221R0001	170
A3XGPM	1SQA009506R0001	168
A3XK501	1SQA009581R0001	168
A3XL4LG	1SQA010212R0001	168
A3XL4LM	1SQA010215R0001	168
A3XL4LR	1SQA009510R0001	168
A3XL4N8	1SQA009511R0001	168
A3XL4NA	1SQA009512R0001	168
A3XL4NB	1SQA009513R0001	168
A3XL4NG	1SQA009514R0001	168
A3XL4NL	1SQA009515R0001	168
A3XL4NR	1SQA009516R0001	168
A3XL4NY	1SQA009517R0001	168
A3XL6LG	1SQA010409R0001	168
A3XL6LM	1SQA010411R0001	168
A3XL6LR	1SQA010410R0001	168
A3XL6N8	1SQA009518R0001	168
A3XL6NA	1SQA009519R0001	168
A3XL6NB	1SQA009520R0001	168
A3XL6NG	1SQA009521R0001	168
A3XL6NL	1SQA009522R0001	168
A3XL6NR	1SQA009523R0001	168
A3XL6NY	1SQA009524R0001	168
A3XLELC	1SQA009525R0001	168
A3XLELG	1SQA009526R0001	168
A3XLELL	1SQA009527R0001	168
A3XLELM	1SQA009528R0001	168
A3XLELR	1SQA009529R0001	168
A3XLELW	1SQA009530R0001	168
A3XLEN6	1SQA009531R0001	168
A3XLEN8	1SQA009532R0001	168
A3XLENA	1SQA009533R0001	168
A3XLENB	1SQA010201R0001	170
A3XLENG	1SQA009534R0001	168
A3XLENL	1SQA009535R0001	168
A3XLENR	1SQA009536R0001	168
A3XLENY	1SQA009537R0001	168
A3XLFN6	1SQA009538R0001	169
A3XLFN8	1SQA009539R0001	169
A3XLFNA	1SQA009540R0001	169
A3XLFNB	1SQA009541R0001	169
A3XLFNG	1SQA009542R0001	169
A3XLFNL	1SQA009543R0001	169
A3XLFNR	1SQA009544R0001	169
A3XLFNY	1SQA009545R0001	169
A3XLKLC	1SQA010218R0001	170

Index

Type classification

Type	Order code	Page	Type	Order code	Page	Type	Order code	Page
A3XLKLG	1SQA010213R0001	170	A3XMN8N	1SQA010187R0001	170	C2SS3-30B-10	1SFA619202R3016	107
A3XLKLL	1SQA010216R0001	170	A3XMN9N	1SQA010407R0001	170	C2SS3-30B-11	1SFA619202R3076	107
A3XLKLM	1SQA010217R0001	170	A3XXGC	1SQA009583R0001	170	C2SS3-30B-20	1SFA619202R3026	107
A3XLKLR	1SQA010214R0001	170	BA9S-110LEDB	1SFA187180R1045	78, 106	C2SS5-30B-10	1SFA619204R3016	107
A3XLKLW	1SQA010219R0001	170	BA9S-110LEDG	1SFA187181R1043	78, 106	C2SS5-30B-11	1SFA619204R3076	107
A3XLLLA	1SQA009546R0001	169	BA9S-110LEDL	1SFA187182R1044	78, 106	C3SS1-10B-11	1SFA619210R1076	108
A3XLLLC	1SQA009547R0001	169	BA9S-110LEDR	1SFA187183R1041	78, 106	C3SS1-10B-20	1SFA619210R1026	108
A3XLLLG	1SQA009548R0001	169	BA9S-110LEDV	1SFA187184R1042	78, 106	C3SS1-30B-11	1SFA619210R3076	108
A3XLLLL	1SQA009549R0001	169	BA9S-12LEDB	1SFA187165R1015	78, 106	C3SS1-30B-20	1SFA619210R3026	108
A3XLLLM	1SQA009550R0001	169	BA9S-12LEDG	1SFA187166R1013	78, 106	C3SS2-10B-11	1SFA619211R1076	108
A3XLLLR	1SQA009551R0001	169	BA9S-12LEDL	1SFA187167R1014	78, 106	C3SS2-10B-20	1SFA619211R1026	108
A3XLLLW	1SQA009552R0001	169	BA9S-12LEDR	1SFA187168R1011	78, 106	C3SS2-30B-11	1SFA619211R3076	108
A3XLMLG	1SQA009553R0001	169	BA9S-12LEDV	1SFA187169R1012	78, 106	C3SS2-30B-20	1SFA619211R3026	108
A3XLMLM	1SQA009554R0001	169	BA9S-130LED	1SFA187190R1045	78, 106	C3SS3-10B-11	1SFA619212R1076	108
A3XLMLR	1SQA009555R0001	169	BA9S-230LEDB	1SFA187185R1055	78, 106	C3SS3-10B-20	1SFA619212R1026	108
A3XLMLW	1SQA009556R0001	169	BA9S-230LEDG	1SFA187186R1053	78, 106	C3SS3-30B-11	1SFA619212R3076	108
A3XLMN1	1SQA009557R0001	169	BA9S-230LEDL	1SFA187187R1054	78, 106	C3SS3-30B-20	1SFA619212R3026	108
A3XLMNG	1SQA009558R0001	169	BA9S-230LEDR	1SFA187188R1051	78, 106	C3SS4-10B-11	1SFA619213R1076	108
A3XLMNR	1SQA009559R0001	169	BA9S-230LEDV	1SFA187189R1052	78, 106	C3SS4-10B-20	1SFA619213R1026	108
A3XLPOB	1SQA010223R0001	170	BA9S-24LEDB	1SFA187170R1025	78, 106	C3SS5-10B-11	1SFA619214R1076	108
A3XLPOC	1SQA010222R0001	170	BA9S-24LEDG	1SFA187171R1023	78, 106	C3SS5-10B-20	1SFA619214R1026	108
A3XLSG6	1SQA009560R0001	169	BA9S-24LEDL	1SFA187172R1024	78, 106	C3SS5-30B-20	1SFA619214R3026	108
A3XLSG8	1SQA009561R0001	169	BA9S-24LEDR	1SFA187173R1021	78, 106	C3SS7-10B-11	1SFA619216R1076	108
A3XLSGG	1SQA009562R0001	169	BA9S-24LEDV	1SFA187174R1022	78, 106	C3SS7-10B-20	1SFA619216R1026	108
A3XLSGL	1SQA009563R0001	169	BA9S-48LEDB	1SFA187175R1035	78, 106	C3SS7-30B-20	1SFA619216R3026	108
A3XLSGR	1SQA009564R0001	169	BA9S-48LEDG	1SFA187176R1033	78, 106	CA1-8053	1SFA619920R8053	110, 123
A3XLSGW	1SQA009565R0001	169	BA9S-48LEDL	1SFA187177R1034	78, 106	CA1-8054	1SFA619920R8054	110, 123
A3XLSGY	1SQA009566R0001	169	BA9S-48LEDR	1SFA187178R1031	78, 106	CA1-8077	1SFA619920R8077	110
A3XLSS6	1SQA009567R0001	169	BA9S-48LEDV	1SFA187179R1032	78, 106	CA1-8078	1SFA619920R8078	110
A3XLSS8	1SQA009568R0001	169	BA9S-60LED	1SFA187191R1045	78, 106	CA1-8080	1SFA619920R8080	111
A3XLSSG	1SQA009569R0001	169	BA9S-6LEDB	1SFA187160R1005	78, 106	CA6-1024	1SFA619930R1024	128
A3XLSSL	1SQA009570R0001	169	BA9S-6LEDG	1SFA187161R1003	78, 106	CA6-1026	1SFA619930R1026	128
A3XLSSR	1SQA009571R0001	169	BA9S-6LEDL	1SFA187162R1004	78, 106	CA6-1027	1SFA619930R1027	128
A3XLSSW	1SQA009572R0001	169	BA9S-6LEDR	1SFA187163R1001	78, 106	CB1-600G	1SFA619600R6002	109
A3XLSSY	1SQA009573R0001	169	BA9S-6LEDV	1SFA187164R1002	78, 106	CB1-601G	1SFA619600R6012	109
A3XLTNB	1SQA009577R0001	169	C2SS1-10B-01	1SFA619200R1046	107	CB1-602G	1SFA619600R6022	109
A3XLTNR	1SQA009578R0001	169	C2SS1-10B-10	1SFA619200R1016	107	CB1-603G	1SFA619600R6032	109
A3XLTNV	1SQA009579R0001	169	C2SS1-10B-11	1SFA619200R1076	107	CB1-610R	1SFA619600R6101	109
A3XMLLG	1SQA010183R0001	170	C2SS1-10B-20	1SFA619200R1026	107	CB1-610Y	1SFA619600R6103	109
A3XMLLL	1SQA010480R0001	170	C2SS1-30B-01	1SFA619200R3046	107	CB1-611R	1SFA619600R6111	109
A3XMLLR	1SQA010182R0001	170	C2SS1-30B-10	1SFA619200R3016	107	CB1-611Y	1SFA619600R6113	109
A3XMLLW	1SQA010408R0001	170	C2SS1-30B-11	1SFA619200R3076	107	CB1-612R	1SFA619600R6121	109
A3XMLLY	1SQA010184R0001	170	C2SS1-30B-20	1SFA619200R3026	107	CB1-612Y	1SFA619600R6123	109
A3XMLUG	1SQA010185R0001	170	C2SS2-10B-01	1SFA619201R1046	107	CB1-613R	1SFA619600R6131	109
A3XMLUL	1SQA010458R0001	170	C2SS2-10B-10	1SFA619201R1016	107	CB1-613Y	1SFA619600R6133	109
A3XMLUR	1SQA010456R0001	170	C2SS2-10B-11	1SFA619201R1076	107	CB1-620B	1SFA619600R6206	109
A3XMLUW	1SQA010455R0001	170	C2SS2-10B-20	1SFA619201R1026	107	CB1-621B	1SFA619600R6216	109
A3XMLUY	1SQA010459R0001	170	C2SS2-30B-01	1SFA619201R3046	107	CB1-622B	1SFA619600R6226	109
A3XMN4N	1SQA010179R0001	170	C2SS2-30B-10	1SFA619201R3016	107	CB1-623B	1SFA619600R6236	109
A3XMN5N	1SQA010404R0001	170	C2SS2-30B-11	1SFA619201R3076	107	CB1-630B	1SFA619600R6306	109
A3XMN6N	1SQA010186R0001	170	C2SS2-30B-20	1SFA619201R3026	107	CB1-631B	1SFA619600R6316	109
A3XMN7N	1SQA010188R0001	170	C2SS3-10B-01	1SFA619202R1046	107	CB1-632B	1SFA619600R6326	109
			C2SS3-10B-10	1SFA619202R1016	107	CB1-633B	1SFA619600R6336	109
			C2SS3-10B-11	1SFA619202R1076	107	CBK-NPE1	SK615552-13	137
			C2SS3-10B-20	1SFA619202R1026	107	CBK-NPE10	SK615552-21	137

Index

Type classification

Type	Order code	Page
CBK-NPE11	SK615552-22	137
CBK-NPE12	SK615552-23	137
CBK-NPE13	SK615552-25	137
CBK-NPE14	SK615552-27	137
CBK-NPE15	SK615552-28	137
CBK-NPE18	SK615552-30	137
CBK-NPE19	SK615550-44	137
CBK-NPE2	SK615552-14	137
CBK-NPE20	SK615552-31	137
CBK-NPE21	SK615552-32	137
CBK-NPE26	SK615550-80	137
CBK-NPE3	SK615552-15	137
CBK-NPE4	SK615552-16	137
CBK-NPE5	SK615552-17	137
CBK-NPE7	SK615552-29	137
CBK-NPE90	SK615550-61	137
CBK-NPE91	SK615550-62	137
CBK-NPE99	SK615550-81	137
CBK-NPE94	SK615562-12	137
CBK-NPF10		138
CBK-NPF11		138
CBK-NPF14		138
CBK-NPF16		138
CBK-NPF19		138
CBK-NPF20		138
CBK-NPF24		138
CBK-NPF24A		138
CBK-NPF26		138
CBK-NPF34		138
CBK-NPF38		138
CBK-NPF40		138
CE3K1-10B-11	1SFA619502R1076	101
CE3K1-10R-01	1SFA619502R1041	100
CE3K1-10R-02	1SFA619502R1051	100
CE3K1-10R-11	1SFA619502R1071	100
CE3P-10B-11	1SFA619501R1076	101
CE3P-10R-01	1SFA619501R1041	100
CE3P-10R-02	1SFA619501R1051	100
CE3P-10R-11	1SFA619501R1071	100
CE3T-10B-01	1SFA619500R1046	101
CE3T-10B-11	1SFA619500R1076	101
CE3T-10R-01	1SFA619500R1041	100
CE3T-10R-02	1SFA619500R1051	100
CE3T-10R-11	1SFA619500R1071	100
CE4K1-10B-11	1SFA619552R1076	101
CE4K1-10R-01	1SFA619552R1041	100
CE4K1-10R-02	1SFA619552R1051	100
CE4K1-10R-11	1SFA619552R1071	100
CE4P-10B-11	1SFA619551R1076	101
CE4P-10R-01	1SFA619551R1041	100
CE4P-10R-02	1SFA619551R1051	100
CE4P-10R-11	1SFA619551R1071	100
CE4T-10B-01	1SFA619550R1046	101
CE4T-10B-02	1SFA619550R1056	101
CE4T-10B-10	1SFA619550R1016	101

Type	Order code	Page
CE4T-10B-11	1SFA619550R1076	101
CE4T-10B-20	1SFA619550R1026	101
CE4T-10R-01	1SFA619550R1041	100
CE4T-10R-02	1SFA619550R1051	100
CE4T-10R-11	1SFA619550R1071	100
CEP1-0	1SFA619811R1000	123
CEP1-1001	1SFA619811R1001	130
CEP1-1002	1SFA619811R1002	130
CEP1-2001	1SFA619811R2001	130
CEP1-2002	1SFA619811R2002	130
CEPY1-0	1SFA619821R1000	123
CEPY1-1001	1SFA619821R1001	130
CEPY1-1002	1SFA619821R1002	130
CEPY1-1006	1SFA619821R1006	130
CEPY1-2001	1SFA619821R2001	130
CEPY1-2002	1SFA619821R2002	130
CL-100C	1SFA619402R1008	105
CL-100G	1SFA619402R1002	105
CL-100L	1SFA619402R1004	105
CL-100R	1SFA619402R1001	105
CL-100W	1SFA619402R1005	105
CL-100Y	1SFA619402R1003	105
CL2-501C	1SFA619403R5018	103
CL2-501G	1SFA619403R5012	103
CL2-501L	1SFA619403R5014	103
CL2-501R	1SFA619403R5011	103
CL2-501Y	1SFA619403R5013	103
CL2-502C	1SFA619403R5028	103
CL2-502G	1SFA619403R5022	103
CL2-502L	1SFA619403R5024	103
CL2-502R	1SFA619403R5021	103
CL2-502Y	1SFA619403R5023	103
CL2-506C	1SFA619403R5068	103
CL2-506G	1SFA619403R5062	103
CL2-506L	1SFA619403R5064	103
CL2-506R	1SFA619403R5061	103
CL2-506Y	1SFA619403R5063	103
CL2-507C	1SFA619403R5078	103
CL2-507G	1SFA619403R5072	103
CL2-507L	1SFA619403R5074	103
CL2-507R	1SFA619403R5071	103
CL2-507Y	1SFA619403R5073	103
CL2-513C	1SFA619403R5138	103
CL2-513G	1SFA619403R5132	103
CL2-513L	1SFA619403R5134	103
CL2-513R	1SFA619403R5131	103
CL2-513Y	1SFA619403R5133	103
CL2-515C	1SFA619403R5158	103
CL2-515G	1SFA619403R5152	103
CL2-515L	1SFA619403R5154	103
CL2-515R	1SFA619403R5151	103
CL2-515Y	1SFA619403R5153	103
CL2-520C	1SFA619403R5208	104
CL2-520G	1SFA619403R5202	104
CL2-520L	1SFA619403R5204	104

Type	Order code	Page
CL2-520R	1SFA619403R5201	104
CL2-520Y	1SFA619403R5203	104
CL2-523C	1SFA619403R5238	104
CL2-523G	1SFA619403R5232	104
CL2-523L	1SFA619403R5234	104
CL2-523R	1SFA619403R5231	104
CL2-523Y	1SFA619403R5233	104
CL2-542C	1SFA619403R5428	104
CL2-542G	1SFA619403R5422	104
CL2-542L	1SFA619403R5424	104
CL2-542R	1SFA619403R5421	104
CL2-542Y	1SFA619403R5423	104
CL2-623C	1SFA619403R6238	104
CL2-623G	1SFA619403R6232	104
CL2-623L	1SFA619403R6234	104
CL2-623R	1SFA619403R6231	104
CL2-623Y	1SFA619403R6233	104
CP1-10B-01	1SFA619100R1046	91
CP1-10B-02	1SFA619100R1056	91
CP1-10B-10	1SFA619100R1016	91
CP1-10B-11	1SFA619100R1076	91
CP1-10B-20	1SFA619100R1026	91
CP1-10G-10	1SFA619100R1012	91
CP1-10G-11	1SFA619100R1072	91
CP1-10G-20	1SFA619100R1022	91
CP1-10L-10	1SFA619100R1014	91
CP1-10L-11	1SFA619100R1074	91
CP1-10L-20	1SFA619100R1024	91
CP1-10R-01	1SFA619100R1041	91
CP1-10R-02	1SFA619100R1051	91
CP1-10R-10	1SFA619100R1011	91
CP1-10R-11	1SFA619100R1071	91
CP1-10R-20	1SFA619100R1021	91
CP1-10W-10	1SFA619100R1015	91
CP1-10W-11	1SFA619100R1075	91
CP1-10W-20	1SFA619100R1025	91
CP1-10Y-10	1SFA619100R1013	91
CP1-10Y-11	1SFA619100R1073	91
CP1-10Y-20	1SFA619100R1023	91
CP1-11C-10	1SFA619100R1118	95
CP1-11G-10	1SFA619100R1112	95
CP1-11L-10	1SFA619100R1114	95
CP1-11R-01	1SFA619100R1141	95
CP1-11R-10	1SFA619100R1111	95
CP1-11Y-10	1SFA619100R1113	95
CP1-12C-10	1SFA619100R1218	95
CP1-12G-10	1SFA619100R1212	95
CP1-12L-10	1SFA619100R1214	95
CP1-12R-01	1SFA619100R1241	95
CP1-12R-10	1SFA619100R1211	95
CP1-12Y-10	1SFA619100R1213	95
CP1-13C-10	1SFA619100R1318	95
CP1-13G-10	1SFA619100R1312	95
CP1-13L-10	1SFA619100R1314	95
CP1-13R-01	1SFA619100R1341	95

Index

Type classification

Type	Order code	Page
CP1-13R-10	1SFA619100R1311	95
CP1-13Y-10	1SFA619100R1313	95
CP1-30B-01	1SFA619100R3046	91
CP1-30B-02	1SFA619100R3056	91
CP1-30B-10	1SFA619100R3016	91
CP1-30B-11	1SFA619100R3076	91
CP1-30B-20	1SFA619100R3026	91
CP1-30G-10	1SFA619100R3012	91
CP1-30G-11	1SFA619100R3072	91
CP1-30G-20	1SFA619100R3022	91
CP1-30L-10	1SFA619100R3014	91
CP1-30L-11	1SFA619100R3074	91
CP1-30L-20	1SFA619100R3024	91
CP1-30R-01	1SFA619100R3041	91
CP1-30R-02	1SFA619100R3051	91
CP1-30R-10	1SFA619100R3011	91
CP1-30R-11	1SFA619100R3071	91
CP1-30R-20	1SFA619100R3021	91
CP1-30W-10	1SFA619100R3015	91
CP1-30W-11	1SFA619100R3075	91
CP1-30W-20	1SFA619100R3025	91
CP1-30Y-10	1SFA619100R3013	91
CP1-30Y-11	1SFA619100R3073	91
CP1-30Y-20	1SFA619100R3023	91
CP1-31C-10	1SFA619100R3118	95
CP1-31G-10	1SFA619100R3112	95
CP1-31L-01	1SFA619100R3144	95
CP1-31L-10	1SFA619100R3114	95
CP1-31R-01	1SFA619100R3141	95
CP1-31R-10	1SFA619100R3111	95
CP1-31Y-10	1SFA619100R3113	95
CP2-10B-01	1SFA619101R1046	92
CP2-10B-02	1SFA619101R1056	92
CP2-10B-10	1SFA619101R1016	92
CP2-10B-11	1SFA619101R1076	92
CP2-10B-20	1SFA619101R1026	92
CP2-10G-10	1SFA619101R1012	92
CP2-10G-11	1SFA619101R1072	92
CP2-10G-20	1SFA619101R1022	92
CP2-10L-10	1SFA619101R1014	92
CP2-10L-11	1SFA619101R1074	92
CP2-10L-20	1SFA619101R1024	92
CP2-10R-01	1SFA619101R1041	92
CP2-10R-02	1SFA619101R1051	92
CP2-10R-10	1SFA619101R1011	92
CP2-10R-11	1SFA619101R1071	92
CP2-10R-20	1SFA619101R1021	92
CP2-10W-10	1SFA619101R1015	92
CP2-10W-11	1SFA619101R1075	92
CP2-10W-20	1SFA619101R1025	92
CP2-10Y-10	1SFA619101R1013	92
CP2-10Y-11	1SFA619101R1073	92
CP2-10Y-20	1SFA619101R1023	92
CP2-11C-10	1SFA619101R1118	96
CP2-11G-10	1SFA619101R1112	96

Type	Order code	Page
CP2-11L-10	1SFA619101R1114	96
CP2-11R-01	1SFA619101R1141	96
CP2-11R-10	1SFA619101R1111	96
CP2-11Y-10	1SFA619101R1113	96
CP2-12C-10	1SFA619101R1218	96
CP2-12G-10	1SFA619101R1212	96
CP2-12L-10	1SFA619101R1214	96
CP2-12R-01	1SFA619101R1241	96
CP2-12R-10	1SFA619101R1211	96
CP2-12Y-10	1SFA619101R1213	96
CP2-13C-10	1SFA619101R1318	96
CP2-13G-10	1SFA619101R1312	96
CP2-13L-10	1SFA619101R1314	96
CP2-13R-01	1SFA619101R1341	96
CP2-13R-10	1SFA619101R1311	96
CP2-13Y-10	1SFA619101R1313	96
CP2-30B-01	1SFA619101R3046	92
CP2-30B-10	1SFA619101R3016	92
CP2-30B-11	1SFA619101R3076	92
CP2-30B-20	1SFA619101R3026	92
CP2-30G-10	1SFA619101R3012	92
CP2-30G-11	1SFA619101R3072	92
CP2-30G-20	1SFA619101R3022	92
CP2-30L-10	1SFA619101R3014	92
CP2-30L-20	1SFA619101R3024	92
CP2-30R-01	1SFA619101R3041	92
CP2-30R-02	1SFA619101R3051	92
CP2-30R-10	1SFA619101R3011	92
CP2-30R-11	1SFA619101R3071	92
CP2-30R-20	1SFA619101R3021	92
CP2-30W-10	1SFA619101R3015	92
CP2-30W-20	1SFA619101R3025	92
CP2-30Y-11	1SFA619101R3073	92
CP2-30Y-20	1SFA619101R3023	92
CP3-10B-01	1SFA619102R1046	93
CP3-10B-02	1SFA619102R1056	93
CP3-10B-10	1SFA619102R1016	93
CP3-10B-11	1SFA619102R1076	93
CP3-10B-20	1SFA619102R1026	93
CP3-10G-10	1SFA619102R1012	93
CP3-10G-11	1SFA619102R1072	93
CP3-10G-20	1SFA619102R1022	93
CP3-10L-10	1SFA619102R1014	93
CP3-10L-11	1SFA619102R1074	93
CP3-10L-20	1SFA619102R1024	93
CP3-10R-01	1SFA619102R1041	93
CP3-10R-02	1SFA619102R1051	93
CP3-10R-10	1SFA619102R1011	93
CP3-10R-11	1SFA619102R1071	93
CP3-10R-20	1SFA619102R1021	93
CP3-10W-10	1SFA619102R1015	93
CP3-10W-11	1SFA619102R1075	93
CP3-10W-20	1SFA619102R1025	93
CP3-10Y-10	1SFA619102R1013	93
CP3-10Y-11	1SFA619102R1073	93

Type	Order code	Page
CP3-10Y-20	1SFA619102R1023	93
CP3-11C-10	1SFA619102R1118	97
CP3-11G-10	1SFA619102R1112	97
CP3-11L-10	1SFA619102R1114	97
CP3-11R-01	1SFA619102R1141	97
CP3-11R-10	1SFA619102R1111	97
CP3-11Y-10	1SFA619102R1113	97
CP3-12C-10	1SFA619102R1218	97
CP3-12G-10	1SFA619102R1212	97
CP3-12L-10	1SFA619102R1214	97
CP3-12R-01	1SFA619102R1241	97
CP3-12R-10	1SFA619102R1211	97
CP3-12Y-10	1SFA619102R1213	97
CP3-13C-10	1SFA619102R1318	97
CP3-13G-10	1SFA619102R1312	97
CP3-13L-10	1SFA619102R1314	97
CP3-13R-01	1SFA619102R1341	97
CP3-13R-10	1SFA619102R1311	97
CP3-13Y-10	1SFA619102R1313	97
CP3-30B-01	1SFA619102R3046	93
CP3-30B-10	1SFA619102R3016	93
CP3-30B-11	1SFA619102R3076	93
CP3-30B-20	1SFA619102R3026	93
CP3-30G-10	1SFA619102R3012	93
CP3-30G-11	1SFA619102R3072	93
CP3-30G-20	1SFA619102R3022	93
CP3-30L-20	1SFA619102R3024	93
CP3-30R-01	1SFA619102R3041	93
CP3-30R-11	1SFA619102R3071	93
CP3-30R-20	1SFA619102R3021	93
CP3-30W-10	1SFA619102R3015	93
CP3-30W-11	1SFA619102R3075	93
CP3-30W-20	1SFA619102R3025	93
CP3-30Y-20	1SFA619102R3023	93
CP4-10B-02	1SFA619103R1056	94
CP4-10B-10	1SFA619103R1016	94
CP4-10B-11	1SFA619103R1076	94
CP4-10B-20	1SFA619103R1026	94
CP4-10G-10	1SFA619103R1012	94
CP4-10G-11	1SFA619103R1072	94
CP4-10G-20	1SFA619103R1022	94
CP4-10L-10	1SFA619103R1014	94
CP4-10L-11	1SFA619103R1074	94
CP4-10R-01	1SFA619103R1041	94
CP4-10R-02	1SFA619103R1051	94
CP4-10R-10	1SFA619103R1011	94
CP4-10R-11	1SFA619103R1071	94
CP4-10R-20	1SFA619103R1021	94
CP4-10W-10	1SFA619103R1015	94
CP4-10W-11	1SFA619103R1075	94
CP4-10Y-10	1SFA619103R1013	94
CP4-10Y-11	1SFA619103R1073	94
CP4-11C-10	1SFA619103R1118	98
CP4-11G-10	1SFA619103R1112	98
CP4-11L-10	1SFA619103R1114	98

Index

Type classification

Type	Order code	Page
CP4-11R-01	1SFA619103R1141	98
CP4-11R-10	1SFA619103R1111	98
CP4-11Y-10	1SFA619103R1113	98
CP4-12C-10	1SFA619103R1218	98
CP4-12G-10	1SFA619103R1212	98
CP4-12L-10	1SFA619103R1214	98
CP4-12R-01	1SFA619103R1241	98
CP4-12R-10	1SFA619103R1211	98
CP4-12Y-10	1SFA619103R1213	98
CP4-13C-10	1SFA619103R1318	98
CP4-13G-10	1SFA619103R1312	98
CP4-13L-10	1SFA619103R1314	98
CP4-13R-01	1SFA619103R1341	98
CP4-13R-10	1SFA619103R1311	98
CP4-13Y-10	1SFA619103R1313	98
CP4-30G-10	1SFA619103R3012	94
CP4-30G-20	1SFA619103R3022	94
CP4-30R-11	1SFA619103R3071	94
CP6-10B-02	1SFA619105R1056	102
CP6-10B-11	1SFA619105R1076	102
CP6-10B-20	1SFA619105R1026	102
CP6-10G-11	1SFA619105R1072	102
CP6-10G-20	1SFA619105R1022	102
CP6-10R-02	1SFA619105R1051	102
CP6-10R-11	1SFA619105R1071	102
CP6-10R-20	1SFA619105R1021	102
CPM3-10B-11	1SFA619126R1076	99
CPM3-10G-11	1SFA619126R1072	99
CPM3-10L-11	1SFA619126R1074	99
CPM3-10R-11	1SFA619126R1071	99
CPM3-10Y-11	1SFA619126R1073	99
CR104PXN*B		172
CR104PXN*BP006		172
CR104PXN*BP007		172
CR104PXN*BP008		172
CR104PXN*BP010		172
CR104PXN*BP011		172
CR104PXN*BP012		172
CR104PXN*BP013		172
CR104PXN*BP014		172
CR104PXN*BP017		172
CR104PXN*BP018		172
CR104PXN*BP019		172
CR104PXN*BP020		172
CR104PXN*BP021		172
CR104PXN*BP022		172
CR104PXN*BP023		172
CR104PXN*BP024		172
CR104PXN*BP025		172
CR104PXN*BP026		172
CR104PXN*BP027		172
CR104PXN*BP028		172
CR104PXN*BP030		172
CR104PXN*BP031		172
CR104PXN*BP032		172

Type	Order code	Page
CR104PXN*BP033		172
CR104PXN*BP034		172
CR104PXN*BP036		172
CR104PXN*BP037		172
CR104PXN*BP038		172
CR104PXN*BP043		172
CR104PXN*BP047		172
CR104PXN*BP050		173
CR104PXN*BP051		173
CR104PXN*BP052		173
CR104PXN*BP053		173
CR104PXN*BP054		173
CR104PXN*BP055		173
CR104PXN*BP056		173
CR104PXN*BP057		173
CR104PXN*BP058		173
CR104PXN*BP059		173
CR104PXN*BP060		173
CR104PXN*BP061		173
CR104PXN*BP062		173
CR104PXN*BP063		173
CR104PXN*BP064		173
CR104PXN*BP065		173
CR104PXN*BP066		173
CR104PXN*BP067		173
CR104PXN*BP068		173
CR104PXN*BP069		173
CR104PXN*BP070		173
CR104PXN*BP071		173
CR104PXN*BP072		173
CR104PXN*BP073		173
CR104PXN*BP074		173
CR104PXN*BP076		173
CR104PXN*BP077		173
CR104PXN*BP079		173
CR104PXN*BP080		173
CR104PXN*BP081		173
CR104PXN*BP082		173
CR104PXN*BP083		173
CR104PXN*BP084		172
CR104PXN*BP085		172
CR104PXN*BP086		173
CR104PXN*BP087		173
CR104PXN*R		172
CR104PXN*RP009		172
CR104PXN*RP040		172
CR104PXN*RP041		172
CR104PXN*RP048		172
CR104PXN1BP090		173
CR104PXN1BP091		173
CR104PXN6E		172
CR104PXN6EP009		173
CR104PXN6EP092		173
KA1-8005	1SFA616920R8005	25
KA1-8010	1SFA616920R8010	47, 110

Type	Order code	Page
KA1-8020	1SFA616920R8020	47, 110
KA1-8021	1SFA616920R8021	47, 110
KA1-8022	1SFA616920R8022	47, 110
KA1-8024	1SFA616920R8024	47
KA1-8027	1SFA616920R8027	47, 110
KA1-8028	1SFA616920R8028	47, 110
KA1-8029	1SFA616920R8029	47, 110
KA1-8045	1SFA616920R8045	124
KA1-8046	1SFA616920R8046	39
KA1-8047	1SFA616920R8047	39
KA1-8072	1SFA616920R8072	110
KA1-8073	1SFA616920R8073	47, 110
KA1-8080	1SFA616920R8080	47
KA1-8120	1SFA616920R8120	135
KA1-8121	1SFA616920R8121	135
KP6-40B	1SFA616105R4006	25
KP6-40G	1SFA616105R4002	25
KP6-40R	1SFA616105R4001	25
KPR1-100B	1SFA616160R1006	39
KPR1-100G	1SFA616160R1002	39
KPR1-100L	1SFA616160R1004	39
KPR1-100R	1SFA616160R1001	39
KPR1-100W	1SFA616160R1005	39
KPR1-100Y	1SFA616160R1003	39
KPR1-101L	1SFA616160R1014	39
KPR1-101W	1SFA616160R1015	39
KPR1-102G	1SFA616160R1022	39
KPR1-102W	1SFA616160R1025	39
KPR1-103W	1SFA616160R1035	39
KPR1-104B	1SFA616160R1046	39
KPR2-100B	1SFA616161R1006	39
KPR2-100R	1SFA616161R1001	39
KPR2-105R	1SFA616161R1051	39
KPR3-100B	1SFA616162R1006	40
KPR3-100G	1SFA616162R1002	40
KPR3-100L	1SFA616162R1004	40
KPR3-100R	1SFA616162R1001	40
KPR3-100W	1SFA616162R1005	40
KPR3-100Y	1SFA616162R1003	40
KPR3-101L	1SFA616162R1014	40
KPR3-101W	1SFA616162R1015	40
KPR3-103G	1SFA616162R1032	40
KPR3-104B	1SFA616162R1046	40
KPR4-100B	1SFA616163R1006	40
KPR4-100R	1SFA616163R1001	40
KPR4-105B	1SFA616163R1056	40
KPR4-105R	1SFA616163R1051	40
KTC3-1019	1SFA616903R1019	138
KTC3-1020	1SFA616903R1020	138
KTC3-9000	1SFA616903R9000	138
M2SS1-10B	1SFA611200R1006	26
M2SS1-10R	1SFA611200R1001	26
M2SS1-10U	1SFA611200R1007	26
M2SS1-11C	1SFA611200R1108	32
M2SS1-11G	1SFA611200R1102	32

Type classification

[illegible]

Index

Type classification

Type	Order code	Page	Type	Order code	Page	Type	Order code	Page
M2SS2-30B	1SFA611201R3006	26	M2SS6-11Y	1SFA611205R1103	33	M3SS2-30B	1SFA611211R3006	28
M2SS2-30R	1SFA611201R3001	26	M2SS6-30B	1SFA611205R3006	27	M3SS2-30R	1SFA611211R3001	28
M2SS2-30U	1SFA611201R3007	26	M2SS6-31C	1SFA611205R3108	33	M3SS2-31C	1SFA611211R3108	34
M2SS2-31C	1SFA611201R3108	32	M2SSK1-101	1SFA611280R1001	36	M3SS2-31G	1SFA611211R3102	34
M2SS2-31G	1SFA611201R3102	32	M2SSK1-102	1SFA611280R1002	36	M3SS2-31L	1SFA611211R3104	34
M2SS2-31L	1SFA611201R3104	32	M2SSK1-103	1SFA611280R1003	36	M3SS2-31R	1SFA611211R3101	34
M2SS2-31R	1SFA611201R3101	32	M2SSK1-104	1SFA611280R1004	36	M3SS3-10B	1SFA611212R1006	28
M2SS2-31Y	1SFA611201R3103	32	M2SSK1-301	1SFA611280R3001	36	M3SS3-10R	1SFA611212R1001	28
M2SS3-10B	1SFA611202R1006	26	M2SSK1-302	1SFA611280R3002	36	M3SS3-10U	1SFA611212R1007	28
M2SS3-10R	1SFA611202R1001	26	M2SSK1-303	1SFA611280R3003	36	M3SS3-11C	1SFA611212R1108	34
M2SS3-10U	1SFA611202R1007	26	M2SSK1-304	1SFA611280R3004	36	M3SS3-11G	1SFA611212R1102	34
M2SS3-11C	1SFA611202R1108	32	M2SSK2-101	1SFA611281R1001	36	M3SS3-11L	1SFA611212R1104	34
M2SS3-11G	1SFA611202R1102	32	M2SSK2-102	1SFA611281R1002	36	M3SS3-11R	1SFA611212R1101	34
M2SS3-11L	1SFA611202R1104	32	M2SSK2-103	1SFA611281R1003	36	M3SS3-11Y	1SFA611212R1103	34
M2SS3-11R	1SFA611202R1101	32	M2SSK2-104	1SFA611281R1004	36	M3SS3-20B	1SFA611212R2006	28
M2SS3-11Y	1SFA611202R1103	32	M2SSK2-301	1SFA611281R3001	36	M3SS3-20U	1SFA611212R2007	28
M2SS3-30B	1SFA611202R3006	26	M2SSK2-302	1SFA611281R3002	36	M3SS3-30B	1SFA611212R3006	28
M2SS3-30R	1SFA611202R3001	26	M2SSK2-303	1SFA611281R3003	36	M3SS3-31C	1SFA611212R3108	34
M2SS3-31C	1SFA611202R3108	32	M2SSK2-304	1SFA611281R3004	36	M3SS4-10B	1SFA611213R1006	29
M2SS3-31G	1SFA611202R3102	32	M2SSK3-101	1SFA611282R1001	36	M3SS4-10R	1SFA611213R1001	29
M2SS3-31R	1SFA611202R3101	32	M2SSK3-102	1SFA611282R1002	36	M3SS4-10U	1SFA611213R1007	29
M2SS3-31Y	1SFA611202R3103	32	M2SSK3-103	1SFA611282R1003	36	M3SS4-11C	1SFA611213R1108	35
M2SS4-10B	1SFA611203R1006	27	M2SSK3-104	1SFA611282R1004	36	M3SS4-11G	1SFA611213R1102	35
M2SS4-10R	1SFA611203R1001	27	M2SSK3-301	1SFA611282R3001	36	M3SS4-11L	1SFA611213R1104	35
M2SS4-10U	1SFA611203R1007	27	M2SSK3-302	1SFA611282R3002	36	M3SS4-11R	1SFA611213R1101	35
M2SS4-11C	1SFA611203R1108	33	M2SSK3-303	1SFA611282R3003	36	M3SS4-11Y	1SFA611213R1103	35
M2SS4-11G	1SFA611203R1102	33	M2SSK3-304	1SFA611282R3004	36	M3SS4-30B	1SFA611213R3006	29
M2SS4-11L	1SFA611203R1104	33	M2SSK4-101	1SFA611289R1001	36	M3SS4-31C	1SFA611213R3108	35
M2SS4-11R	1SFA611203R1101	33	M2SSV1-10B	1SFA611220R1006	129	M3SS4-31R	1SFA611213R3101	35
M2SS4-11Y	1SFA611203R1103	33	M2SSV2-10B	1SFA611221R1006	129	M3SS5-10B	1SFA611214R1006	29
M2SS4-30B	1SFA611203R3006	27	M2SSV3-10B	1SFA611222R1006	129	M3SS5-10R	1SFA611214R1001	29
M2SS4-31C	1SFA611203R3108	33	M3SS1-10B	1SFA611210R1006	28	M3SS5-10U	1SFA611214R1007	29
M2SS4-31G	1SFA611203R3102	33	M3SS1-10R	1SFA611210R1001	28	M3SS5-11C	1SFA611214R1108	35
M2SS5-10B	1SFA611204R1006	27	M3SS1-10U	1SFA611210R1007	28	M3SS5-11G	1SFA611214R1102	35
M2SS5-10R	1SFA611204R1001	27	M3SS1-11C	1SFA611210R1108	34	M3SS5-11L	1SFA611214R1104	35
M2SS5-10U	1SFA611204R1007	27	M3SS1-11G	1SFA611210R1102	34	M3SS5-11R	1SFA611214R1101	35
M2SS5-11C	1SFA611204R1108	33	M3SS1-11L	1SFA611210R1104	34	M3SS5-11Y	1SFA611214R1103	35
M2SS5-11G	1SFA611204R1102	33	M3SS1-11R	1SFA611210R1101	34	M3SS5-30B	1SFA611214R3006	29
M2SS5-11L	1SFA611204R1104	33	M3SS1-11Y	1SFA611210R1103	34	M3SS5-30R	1SFA611214R3001	29
M2SS5-11R	1SFA611204R1101	33	M3SS1-30B	1SFA611210R3006	28	M3SS5-31C	1SFA611214R3108	35
M2SS5-11Y	1SFA611204R1103	33	M3SS1-30R	1SFA611210R3001	28	M3SS5-31G	1SFA611214R3102	35
M2SS5-30B	1SFA611204R3006	27	M3SS1-30U	1SFA611210R3007	28	M3SS6-10B	1SFA611215R1006	29
M2SS5-30R	1SFA611204R3001	27	M3SS1-31C	1SFA611210R3108	34	M3SS6-10R	1SFA611215R1001	29
M2SS5-31C	1SFA611204R3108	33	M3SS1-31G	1SFA611210R3102	34	M3SS6-10U	1SFA611215R1007	29
M2SS5-31G	1SFA611204R3102	33	M3SS1-31L	1SFA611210R3104	34	M3SS6-11C	1SFA611215R1108	35
M2SS5-31L	1SFA611204R3104	33	M3SS1-31R	1SFA611210R3101	34	M3SS6-11G	1SFA611215R1102	35
M2SS5-31R	1SFA611204R3101	33	M3SS1-31Y	1SFA611210R3103	34	M3SS6-11L	1SFA611215R1104	35
M2SS5-31Y	1SFA611204R3103	33	M3SS2-10B	1SFA611211R1006	28	M3SS6-11R	1SFA611215R1101	35
M2SS6-10B	1SFA611205R1006	27	M3SS2-10R	1SFA611211R1001	28	M3SS6-11Y	1SFA611215R1103	35
M2SS6-10R	1SFA611205R1001	27	M3SS2-10U	1SFA611211R1007	28	M3SS6-30B	1SFA611215R3006	29
M2SS6-10U	1SFA611205R1007	27	M3SS2-11C	1SFA611211R1108	34	M3SS6-31L	1SFA611215R3104	35
M2SS6-11C	1SFA611205R1108	33	M3SS2-11G	1SFA611211R1102	34	M3SS7-10B	1SFA611216R1006	28
M2SS6-11G	1SFA611205R1102	33	M3SS2-11L	1SFA611211R1104	34	M3SS7-10R	1SFA611216R1001	28
M2SS6-11L	1SFA611205R1104	33	M3SS2-11R	1SFA611211R1101	34	M3SS7-10U	1SFA611216R1007	28
M2SS6-11R	1SFA611205R1101	33	M3SS2-11Y	1SFA611211R1103	34	M3SS7-11C	1SFA611216R1108	34

Index

Type classification

Type	Order code	Page	Type	Order code	Page	Type	Order code	Page
M3SS7-11G	1SFA611216R1102	34	M3SSK6-101	1SFA611288R1001	37	MA6-1012	1SFA611930R1012	128
M3SS7-11L	1SFA611216R1104	34	M3SSV1-10B	1SFA611230R1006	129	MA6-1013	1SFA611930R1013	128
M3SS7-11R	1SFA611216R1101	34	M3SSV2-10B	1SFA611231R1006	129	MA6-1014	1SFA611930R1014	128
M3SS7-11Y	1SFA611216R1103	34	M3SSV3-10B	1SFA611232R1006	129	MA6-1015	1SFA611930R1015	128
M3SS7-30B	1SFA611216R3006	28	M4SS1-10B	1SFA611290R4006	31	MA6-1016	1SFA611930R1016	128
M3SS7-31C	1SFA611216R3108	34	M4SS1-10R	1SFA611290R4001	31	MA6-1017	1SFA611930R1017	136
M3SS7-31G	1SFA611216R3102	34	M4SS1-30B	1SFA611290R6006	31	MA6-1018	1SFA611930R1018	136
M3SS8-10B	1SFA611217R1006	29	M4SS1-30R	1SFA611290R6001	31	MA6-1019	1SFA611930R1019	136
M3SS8-10R	1SFA611217R1001	29	M4SS2-10B	1SFA611291R4006	31	MA6-1020	1SFA611930R1020	136
M3SS8-10U	1SFA611217R1007	29	M4SS2-10R	1SFA611291R4001	31	MA6-1021	1SFA611930R1021	136
M3SS8-11C	1SFA611217R1108	35	M4SS2-30B	1SFA611291R6006	31	MA6-1022	1SFA611930R1022	136
M3SS8-11G	1SFA611217R1102	35	M4SS2-30R	1SFA611291R6001	31	MA6-1023	1SFA611930R1023	136
M3SS8-11L	1SFA611217R1104	35	MA16-1000	1SFA611940R1000	137	MA6-1024	1SFA611930R1024	128
M3SS8-11R	1SFA611217R1101	35	MA16-1001	1SFA611940R1001	137	MA6-1025	1SFA611930R1025	128
M3SS8-11Y	1SFA611217R1103	35	MA1-8001	1SFA611920R8001	48	MA6-1026	1SFA611930R1026	128
M3SS8-21G	1SFA611217R2102	35	MA1-8002	1SFA611920R8002	47, 110	MA6-1027	1SFA611930R1027	128
M3SS8-21R	1SFA611217R2101	35	MA1-8015	1SFA611920R8015	48, 111	MA6-1028	1SFA611930R1028	128
M3SS8-30B	1SFA611217R3006	29	MA1-8019	1SFA611920R8019	48, 111	MA6-1029	1SFA611930R1029	128
M3SS8-31G	1SFA611217R3102	35	MA1-8052	1SFA611920R8052	47, 110	MA6-1032	1SFA611930R1032	135
M3SS8-31R	1SFA611217R3101	35	MA1-8053	1SFA611920R8053	47, 123	MA6-1033	1SFA611930R1033	135
M3SSC1-10B	1SFA611250R1006	30	MA1-8074	1SFA611920R8074	47, 110	MA6-1034	1SFA611930R1034	135
M3SSC1-30B	1SFA611250R3006	30	MA1-8126	1SFA611920R8126	47	MA6-1035	1SFA611930R1035	135
M3SSC2-10B	1SFA611251R1006	30	MA1-8128	1SFA611920R8128	47, 123	MA6-1036	1SFA611930R1036	135
M3SSC2-30B	1SFA611251R3006	30	MA1-8129	1SFA611920R8129	124	MA6-1037	1SFA611930R1037	135
M3SSC3-10B	1SFA611252R1006	30	MA1-8130	1SFA611920R8130	124	MA6-1038	1SFA611930R1038	135
M3SSC3-30B	1SFA611252R3006	30	MA1-8131	1SFA611920R8131	48	MA6-1039	1SFA611930R1039	135
M3SSC7-10B	1SFA611256R1006	30	MA1-8136	1SFA611920R8136	124	MA6-1040	1SFA611930R1040	135
M3SSC7-30B	1SFA611256R3006	30	MA1-8137	1SFA611920R8137	41	MA6-1041	1SFA611930R1041	135
M3SSK1-101	1SFA611283R1001	37	MA1-8138	1SFA611920R8138	41	MA6-1042	1SFA611930R1042	135
M3SSK1-102	1SFA611283R1002	37	MA1-8139	1SFA611920R8139	19–21	MA6-1043	1SFA611930R1043	135
M3SSK1-103	1SFA611283R1003	37	MA1-8149	1SFA611920R8149	48, 111	MA6-1044	1SFA611930R1044	135
M3SSK1-104	1SFA611283R1004	37	MA1-8150	1SFA611920H8150	124	MA6-1045	1SFA611930R1045	135
M3SSK1-301	1SFA611283R3001	37	MA1-8152	1SFA611920R8152	47, 110	MA6-1047	1SFA611930R1047	135
M3SSK1-302	1SFA611283R3002	37	MA1-8153	1SFA611920R8153	47, 110	MA6-1054	1SFA611930R1054	135
M3SSK1-303	1SFA611283R3003	37	MA1-8160	1SFA611920R8160	124	MA6-1058	1SFA611930R1058	135
M3SSK1-304	1SFA611283R3004	37	MA5-3001	1SFA611925R3001	124	MA6-1060	1SFA611930R1060	127
M3SSK2-101	1SFA611284R1001	37	MA5-3002	1SFA611925R3002	124	MA6-1061	1SFA611930R1061	127
M3SSK2-102	1SFA611284R1002	37	MA5-3003	1SFA611925R3003	124	MA6-1062	1SFA611930R1062	127
M3SSK2-103	1SFA611284R1003	37	MA5-3004	1SFA611925R3004	124	MA6-1063	1SFA611930R1063	127
M3SSK2-104	1SFA611284R1004	37	MA5-3006	1SFA611925R3006	124	MA6-1064	1SFA611930R1064	127
M3SSK2-301	1SFA611284R3001	37	MA5-3007	1SFA611925R3007	124	MA6-1065	1SFA611930R1065	127
M3SSK3-101	1SFA611285R1001	37	MA5-3008	1SFA611925R3008	124	MA6-1070	1SFA611930R1070	135
M3SSK3-102	1SFA611285R1002	37	MA5-3009	1SFA611925R3009	124	MA6-1071	1SFA611930R1071	135
M3SSK3-103	1SFA611285R1003	37	MA5-3010	1SFA611925R3010	124	MA6-1073	1SFA611930R1073	135
M3SSK3-104	1SFA611285R1004	37	MA6-1000	1SFA611930R1000	128	MA6-1074	1SFA611930R1074	135
M3SSK3-301	1SFA611285R3001	37	MA6-1002	1SFA611930R1002	128	MA6-1075	1SFA611930R1075	135
M3SSK3-302	1SFA611285R3002	37	MA6-1003	1SFA611930R1003	128	MA6-1076	1SFA611930R1076	135
M3SSK3-303	1SFA611285R3003	37	MA6-1004	1SFA611930R1004	128	MA6-1077	1SFA611930R1077	135
M3SSK4-101	1SFA611286R1001	37	MA6-1005	1SFA611930R1005	128	MA6-1079	1SFA611930R1079	135
M3SSK4-102	1SFA611286R1002	37	MA6-1006	1SFA611930R1006	128	MA6-1080	1SFA611930R1080	135
M3SSK4-301	1SFA611286R3001	37	MA6-1007	1SFA611930R1007	128	MA6-1082	1SFA611930R1082	135
M3SSK4-302	1SFA611286R3002	37	MA6-1008	1SFA611930R1008	128	MA6-1083	1SFA611930R1083	135
M3SSK5-101	1SFA611287R1001	37	MA6-1009	1SFA611930R1009	128	MA6-1084	1SFA611930R1084	135
M3SSK5-103	1SFA611287R1003	37	MA6-1010	1SFA611930R1010	136	MA6-1085	1SFA611930R1085	135
M3SSK5-301	1SFA611287R3001	37	MA6-1011	1SFA611930R1011	136	MA6-1086	1SFA611930R1086	135

Index

Type classification

Type	Order code	Page
MA6-1087	1SFA611930R1087	135
MA6-1100	1SFA611930R1100	128
MA6-1101	1SFA611930R1101	128
MA6-1102	1SFA611930R1102	128
MA6-1103	1SFA611930R1103	128
MA6-1104	1SFA611930R1104	128
MA6-1118	1SFA611930R1118	135
MA6-1130	1SFA611930R1130	127
MA6-1131	1SFA611930R1131	127
MA6-1132	1SFA611930R1132	127
MA6-1133	1SFA611930R1133	127
MA6-1134	1SFA611930R1134	127
MA6-1135	1SFA611930R1135	127
MA6-1136	1SFA611930R1136	127
MA6-1137	1SFA611930R1137	127
MA6-1138	1SFA611930R1138	127
MA6-1139	1SFA611930R1139	127
MA6-1140	1SFA611930R1140	127
MA6-1141	1SFA611930R1141	127
MA6-1152	1SFA611930R1152	127
MA6-1153	1SFA611930R1153	127
MA6-1170	1SFA611930R1170	127
MA6-1171	1SFA611930R1171	127
MA6-1172	1SFA611930R1172	127
MA6-1173	1SFA611930R1173	127
MA6-1174	1SFA611930R1174	127
MA6-1175	1SFA611930R1175	127
MA6-1176	1SFA611930R1176	127
MA6-1177	1SFA611930R1177	127
MA6-1178	1SFA611930R1178	127
MA6-1179	1SFA611930R1179	127
MA6-1190	1SFA611930R1190	127
MA6-1191	1SFA611930R1191	127
MA6-1192	1SFA611930R1192	127
MA6-1193	1SFA611930R1193	127
MA6-1194	1SFA611930R1194	127
MA6-1210	1SFA611930R1210	135
MA6-1240	1SFA611930R1240	41
MA6-1241	1SFA611930R1241	41
MA6-1242	1SFA611930R1242	41
MA6-1252	1SFA611930R1252	38
MCB-01	1SFA611610R1010	44
MCB-01B	1SFA611610R2010	124
MCB-01BG	1SFA611610R2110	124
MCB-01G	1SFA611610R1110	44
MCB-02	1SFA611610R1020	44
MCB-02B	1SFA611610R2020	124
MCB-02G	1SFA611610R1120	44
MCB-10	1SFA611610R1001	44
MCB-10B	1SFA611610R2001	124
MCB-10BG	1SFA611610R2101	124
MCB-10G	1SFA611610R1101	44
MCB-11	1SFA611610R1011	44
MCB-11B	1SFA611610R2011	124
MCB-11G	1SFA611610R1111	44

Type	Order code	Page
MCB-20	1SFA611610R1002	44
MCB-20B	1SFA611610R2002	124
MCB-20G	1SFA611610R1102	44
MCBH-00	1SFA611605R1100	44
MCBH5-00	1SFA611601R1100	44
MCBL-01	1SFA611612R1001	44
MCBL-10	1SFA611612R1010	44
MDB-2	1SFA611630R1002	48
MEP1-0	1SFA611811R1000	123
MEP2-0	1SFA611812R1000	123
MEP2-1001	1SFA611812R1001	130
MEP3-0	1SFA611813R1000	123
MEP4-0	1SFA611814R1000	123
MEP6-0	1SFA611816R1000	123
MEPY1-0	1SFA611821R1000	123
MEPY1-1035	1SFA611821R1035	130
MEPY1-1040	1SFA611821R1040	130
MEPY1-1041	1SFA611821R1041	130
MEPY1-1042	1SFA611821R1042	130
MJS10-60B	1SFA611710R6006	41
MJS11-40B	1SFA611711R4006	41
MJS11-60B	1SFA611711R6006	41
MJS12-40B	1SFA611712R4006	41
MJS12-60B	1SFA611712R6006	41
MJS1-40B	1SFA611701R4006	41
MJS1-60B	1SFA611701R6006	41
MJS2-40B	1SFA611702R4006	41
MJS2-60B	1SFA611702R6006	41
MJS3-40B	1SFA611703R4006	41
MJS3-60B	1SFA611703R6006	41
MJS4-40B	1SFA611704R4006	41
MJS4-60B	1SFA611704R6006	41
MJS5-40B	1SFA611705R4006	41
MJS5-60B	1SFA611705R6006	41
MJS6-40B	1SFA611706R4006	41
MJS6-60B	1SFA611706R6006	41
MJS7-40B	1SFA611707R4006	41
MJS7-60B	1SFA611707R6006	41
MJS8-40B	1SFA611708R4006	41
MJS8-60B	1SFA611708R6006	41
MJS9-40B	1SFA611709R4006	41
MJS9-60B	1SFA611709R6006	41
ML1-100C	1SFA611400R1008	25
ML1-100G	1SFA611400R1002	25
ML1-100L	1SFA611400R1004	25
ML1-100R	1SFA611400R1001	25
ML1-100W	1SFA611400R1005	25
ML1-100Y	1SFA611400R1003	25
MLBL-00BG	1SFA611621R2002	125
MLBL-00BL	1SFA611621R2004	125
MLBL-00BR	1SFA611621R2001	125
MLBL-00BW	1SFA611621R2005	125
MLBL-00BY	1SFA611621R2003	125
MLBL-00G	1SFA611621R1002	45
MLBL-00L	1SFA611621R1004	45

Type	Order code	Page
MLBL-00R	1SFA611621R1001	45
MLBL-00W	1SFA611621R1005	45
MLBL-00Y	1SFA611621R1003	45
MLBL-01BG	1SFA611621R2012	125
MLBL-01BL	1SFA611621R2014	125
MLBL-01BR	1SFA611621R2011	125
MLBL-01BW	1SFA611621R2015	125
MLBL-01BY	1SFA611621R2013	125
MLBL-01G	1SFA611621R1012	45
MLBL-01L	1SFA611621R1014	45
MLBL-01R	1SFA611621R1011	45
MLBL-01W	1SFA611621R1015	45
MLBL-01Y	1SFA611621R1013	45
MLBL-02BG	1SFA611621R2022	125
MLBL-02BL	1SFA611621R2024	125
MLBL-02BR	1SFA611621R2021	125
MLBL-02BW	1SFA611621R2025	125
MLBL-02BY	1SFA611621R2023	125
MLBL-02G	1SFA611621R1022	45
MLBL-02L	1SFA611621R1024	45
MLBL-02R	1SFA611621R1021	45
MLBL-02W	1SFA611621R1025	45
MLBL-02Y	1SFA611621R1023	45
MLBL-03BG	1SFA611621R2032	125
MLBL-03BL	1SFA611621R2034	125
MLBL-03BR	1SFA611621R2031	125
MLBL-03BW	1SFA611621R2035	125
MLBL-03BY	1SFA611621R2033	125
MLBL-03G	1SFA611621R1032	45
MLBL-03L	1SFA611621R1034	45
MLBL-03R	1SFA611621R1031	45
MLBL-03W	1SFA611621R1035	45
MLBL-03Y	1SFA611621R1033	45
MLBL-04BG	1SFA611621R2042	125
MLBL-04BL	1SFA611621R2044	125
MLBL-04BR	1SFA611621R2041	125
MLBL-04BW	1SFA611621R2045	125
MLBL-04BY	1SFA611621R2043	125
MLBL-04G	1SFA611621R1042	45
MLBL-04L	1SFA611621R1044	45
MLBL-04R	1SFA611621R1041	45
MLBL-04W	1SFA611621R1045	45
MLBL-04Y	1SFA611621R1043	45
MLBL-05BG	1SFA611621R2052	125
MLBL-05BL	1SFA611621R2054	125
MLBL-05BR	1SFA611621R2051	125
MLBL-05BW	1SFA611621R2055	125
MLBL-05BY	1SFA611621R2053	125
MLBL-05G	1SFA611621R1052	45
MLBL-05L	1SFA611621R1054	45
MLBL-05R	1SFA611621R1051	45
MLBL-05W	1SFA611621R1055	45
MLBL-05Y	1SFA611621R1053	45
MLBL-06BG	1SFA611621R2062	125
MLBL-06BL	1SFA611621R2064	125

Index

Type classification

Type	Order code	Page
MLBL-06BR	1SFA611621R2061	125
MLBL-06BW	1SFA611621R2065	125
MLBL-06BY	1SFA611621R2063	125
MLBL-06G	1SFA611621R1062	45
MLBL-06L	1SFA611621R1064	45
MLBL-06R	1SFA611621R1061	45
MLBL-06W	1SFA611621R1065	45
MLBL-06Y	1SFA611621R1063	45
MLBL-07BG	1SFA611621R2072	126
MLBL-07BL	1SFA611621R2074	126
MLBL-07BR	1SFA611621R2071	126
MLBL-07BW	1SFA611621R2075	126
MLBL-07BY	1SFA611621R2073	126
MLBL-07G	1SFA611621R1072	46
MLBL-07L	1SFA611621R1074	46
MLBL-07R	1SFA611621R1071	46
MLBL-07W	1SFA611621R1075	46
MLBL-07Y	1SFA611621R1073	46
MLBL-08BG	1SFA611621R2082	126
MLBL-08BL	1SFA611621R2084	126
MLBL-08BR	1SFA611621R2081	126
MLBL-08BW	1SFA611621R2085	126
MLBL-08BY	1SFA611621R2083	126
MLBL-08G	1SFA611621R1082	46
MLBL-08L	1SFA611621R1084	46
MLBL-08R	1SFA611621R1081	46
MLBL-08W	1SFA611621R1085	46
MLBL-08Y	1SFA611621R1083	46
MLBL-09BG	1SFA611621R2092	126
MLBL-09BL	1SFA611621R2094	126
MLBL-09BR	1SFA611621R2091	126
MLBL-09BW	1SFA611621R2095	126
MLBL-09BY	1SFA611621R2093	126
MLBL-09G	1SFA611621R1092	46
MLBL-09L	1SFA611621R1094	46
MLBL-09R	1SFA611621R1091	46
MLBL-09W	1SFA611621R1095	46
MLBL-09Y	1SFA611621R1093	46
MP1-10B	1SFA611100R1006	15
MP1-10C	1SFA611100R1008	15
MP1-10G	1SFA611100R1002	15
MP1-10L	1SFA611100R1004	15
MP1-10R	1SFA611100R1001	15
MP1-10W	1SFA611100R1005	15
MP1-10Y	1SFA611100R1003	15

Type	Order code	Page
MP1-11C	1SFA611100R1108	17
MP1-11G	1SFA611100R1102	17
MP1-11L	1SFA611100R1104	17
MP1-11R	1SFA611100R1101	17
MP1-11W	1SFA611100R1105	17
MP1-11Y	1SFA611100R1103	17
MP1-21C	1SFA611100R2108	17
MP1-21L	1SFA611100R2104	17
MP1-30B	1SFA611100R3006	15
MP1-30C	1SFA611100R3008	15
MP1-30G	1SFA611100R3002	15
MP1-30L	1SFA611100R3004	15
MP1-30R	1SFA611100R3001	15
MP1-30W	1SFA611100R3005	15
MP1-30Y	1SFA611100R3003	15
MP1-31C	1SFA611100R3108	17
MP1-31G	1SFA611100R3102	17
MP1-31L	1SFA611100R3104	17
MP1-31R	1SFA611100R3101	17
MP1-31W	1SFA611100R3105	17
MP1-31Y	1SFA611100R3103	17
MP2-10B	1SFA611101R1006	15
MP2-10C	1SFA611101R1008	15
MP2-10G	1SFA611101R1002	15
MP2-10L	1SFA611101R1004	15
MP2-10R	1SFA611101R1001	15
MP2-10W	1SFA611101R1005	15
MP2-10Y	1SFA611101R1003	15
MP2-11C	1SFA611101R1108	17
MP2-11G	1SFA611101R1102	17
MP2-11L	1SFA611101R1104	17
MP2-11R	1SFA611101R1101	17
MP2-11W	1SFA611101R1105	17
MP2-11Y	1SFA611101R1103	17
MP2-30B	1SFA611101R3006	15
MP2-30G	1SFA611101R3002	15
MP2-30L	1SFA611101R3004	15
MP2-30R	1SFA611101R3001	15
MP2-30Y	1SFA611101R3003	15
MP2-31C	1SFA611101R3108	17
MP2-31G	1SFA611101R3102	17
MP2-31L	1SFA611101R3104	17
MP2-31R	1SFA611101R3101	17
MP2-31W	1SFA611101R3105	17
MP2-31Y	1SFA611101R3103	17
MP3-10B	1SFA611102R1006	16
MP3-10C	1SFA611102R1008	16
MP3-10G	1SFA611102R1002	16
MP3-10L	1SFA611102R1004	16
MP3-10R	1SFA611102R1001	16
MP3-10W	1SFA611102R1005	16
MP3-10Y	1SFA611102R1003	16
MP3-11C	1SFA611102R1108	18
MP3-11G	1SFA611102R1102	18
MP3-11L	1SFA611102R1104	18

Type	Order code	Page
MP3-11R	1SFA611102R1101	18
MP3-11W	1SFA611102R1105	18
MP3-11Y	1SFA611102R1103	18
MP3-30B	1SFA611102R3006	16
MP3-30C	1SFA611102R3008	16
MP3-30G	1SFA611102R3002	16
MP3-30L	1SFA611102R3004	16
MP3-30R	1SFA611102R3001	16
MP3-30W	1SFA611102R3005	16
MP3-30Y	1SFA611102R3003	16
MP3-31C	1SFA611102R3108	18
MP3-31G	1SFA611102R3102	18
MP3-31L	1SFA611102R3104	18
MP3-31R	1SFA611102R3101	18
MP3-31W	1SFA611102R3105	18
MP3-31Y	1SFA611102R3103	18
MP4-10B	1SFA611103R1006	16
MP4-10C	1SFA611103R1008	16
MP4-10G	1SFA611103R1002	16
MP4-10L	1SFA611103R1004	16
MP4-10R	1SFA611103R1001	16
MP4-10W	1SFA611103R1005	16
MP4-10Y	1SFA611103R1003	16
MP4-11C	1SFA611103R1108	18
MP4-11G	1SFA611103R1102	18
MP4-11L	1SFA611103R1104	18
MP4-11R	1SFA611103R1101	18
MP4-11W	1SFA611103R1105	18
MP4-11Y	1SFA611103R1103	18
MP4-30B	1SFA611103R3006	16
MP4-30G	1SFA611103R3002	16
MP4-31C	1SFA611103R3108	18
MP4-31G	1SFA611103R3102	18
MP4-31L	1SFA611103R3104	18
MP4-31R	1SFA611103R3101	18
MPD1-11B	1SFA611130R1106	19
MPD1-11C	1SFA611130R1108	20
MPD1-11G	1SFA611130R1102	20
MPD1-11R	1SFA611130R1101	20
MPD1-11Y	1SFA611130R1103	20
MPD12-11B	1SFA611141R1106	19
MPD12-11C	1SFA611141R1108	21
MPD12-11G	1SFA611141R1102	21
MPD12-11R	1SFA611141R1101	21
MPD12-11Y	1SFA611141R1103	21
MPD13-11B	1SFA611142R1106	19
MPD13-11C	1SFA611142R1108	21
MPD13-11G	1SFA611142R1102	21
MPD13-11R	1SFA611142R1101	21
MPD13-11Y	1SFA611142R1103	21
MPD14-11B	1SFA611143R1106	19
MPD14-11C	1SFA611143R1108	21
MPD14-11G	1SFA611143R1102	21
MPD14-11R	1SFA611143R1101	21
MPD14-11Y	1SFA611143R1103	21

Index

Type classification

Type	Order code	Page	Type	Order code	Page	Type	Order code	Page
MPD15-11B	1SFA611144R1106	19	MPEP3-10B	1SFA611521R1006	24	P9B-01VR	1SFA187003R8110	76
MPD15-11C	1SFA611144R1108	21	MPEP3-10R	1SFA611521R1001	23	P9B-02VN	1SFA187008R8020	76
MPD15-11G	1SFA611144R1102	21	MPEP4-10B	1SFA611524R1006	24	P9B-02VN-AA	1SFA205236R8020	76
MPD15-11R	1SFA611144R1101	21	MPEP4-10R	1SFA611524R1001	23	P9B-10FN	1SFA187013R8301	76
MPD15-11Y	1SFA611144R1103	21	MPET3-10B	1SFA611520R1006	24	P9B-10FN-AA	1SFA215835R8301	76
MPD16-11B	1SFA611145R1106	19	MPET3-10R	1SFA611520R1001	23	P9B-10VA	1SFA187004R8201	76
MPD16-11C	1SFA611145R1108	21	MPET4-10B	1SFA611523R1006	24	P9B-10VN	1SFA187002R8001	76
MPD16-11G	1SFA611145R1102	21	MPET4-10R	1SFA611523R1001	23	P9B-10VN-AA	1SFA215832R8001	76
MPD16-11R	1SFA611145R1101	21	MPM1-10B	1SFA611124R1006	22	P9B-11VN	1SFA187000R8011	76
MPD16-11Y	1SFA611145R1103	21	MPM1-10G	1SFA611124R1002	22	P9B-11VN-AA	1SFA242712R8011	76
MPD17-11B	1SFA611146R1106	19	MPM1-10R	1SFA611124R1001	22	P9B-20VN	1SFA187009R8002	76
MPD17-11C	1SFA611146R1108	21	MPM1-10Y	1SFA611124R1003	22	P9M-CB	1SFA184696R9006	74
MPD17-11G	1SFA611146R1102	21	MPM1-11G	1SFA611124R1102	22	P9M-CC	1SFA184697R9006	74
MPD17-11Y	1SFA611146R1103	21	MPM1-11R	1SFA611124R1101	22	P9M-CD	1SFA184695R9006	74
MPD18-11B	1SFA611147R1106	19	MPM1-11Y	1SFA611124R1103	22	P9M-EC4RN01	1SFA192000R9001	59
MPD19-11B	1SFA611148R1106	19	MPM2-10B	1SFA611125R1006	22	P9M-EC4RN37	1SFA192012R9001	59
MPD19-11C	1SFA611148R1108	21	MPM2-10R	1SFA611125R1001	22	P9M-EC4RN95	1SFA184073R9001	59
MPD19-11G	1SFA611148R1102	21	MPM2-10Y	1SFA611125R1003	22	P9M-EM3GN	1SFA184033R9003	59
MPD2-11B	1SFA611131R1106	19	MPM2-11R	1SFA611125R1101	22	P9M-EM3NN	1SFA184030R9006	59
MPD2-11C	1SFA611131R1108	20	MPM2-11Y	1SFA611125R1103	22	P9M-EM3RN	1SFA184031R9001	59
MPD2-11G	1SFA611131R1102	20	MPMP3-11R	1SFA611511R1101	23	P9M-EM3VN	1SFA184032R9002	59
MPD2-11R	1SFA611131R1101	20	MPMP4-10R	1SFA611514R1001	23	P9M-EM4GL	1SFA184553R9103	60
MPD2-11Y	1SFA611131R1103	20	MPMP4-11R	1SFA611514R1101	23	P9M-EM4GN	1SFA184043R9003	59
MPD3-11B	1SFA611132R1106	19	MPMT3-11R	1SFA611510R1101	23	P9M-EM4LL	1SFA184556R9104	60
MPD3-11C	1SFA611132R1108	20	MPMT4-10R	1SFA611513R1001	23	P9M-EM4NN	1SFA184040R9006	59
MPD3-11G	1SFA611132R1102	20	MPMT4-11R	1SFA611513R1101	23	P9M-EM4RL	1SFA184551R9101	60
MPD3-11R	1SFA611132R1101	20	MT-105B	1SFA611410R1056	38	P9M-EM4RN	1SFA184041R9001	59
MPD3-11Y	1SFA611132R1103	20	MT-110B	1SFA611410R1106	38	P9M-EM4VL	1SFA184552R9102	60
MPD4-11B	1SFA611133R1106	19	MT-150B	1SFA611410R1506	38	P9M-EM4VN	1SFA184042R9002	59
MPD4-11C	1SFA611133R1108	20	MT-1B	1SFA611410R1006	38	P9M-EM6GN	1SFA184053R9003	59
MPD4-11G	1SFA611133R1102	20	MT-305B	1SFA611410R3056	38	P9M-EM6NN	1SFA184050R9006	59
MPD4-11R	1SFA611133R1101	20	MT-310B	1SFA611410R3106	38	P9M-EM6RN	1SFA184051R9001	59
MPD4-11Y	1SFA611133R1103	20	MT-350B	1SFA611410R3506	38	P9M-EM6VN	1SFA184052R9002	59
MPD5-11B	1SFA611134R1106	19	MT-3B	1SFA611410R3006	38	P9M-ER3RN	1SFA184070R9001	59
MPD5-11C	1SFA611134R1108	20	MTS1-10B	1SFA611300R1006	42	P9M-ER4RN	1SFA184071R9001	59
MPD5-11G	1SFA611134R1102	20	MTS1-30B	1SFA611300R3006	42	P9M-ET4GL1	1SFA184563R9103	60
MPD5-11R	1SFA611134R1101	20	MTS2-10B	1SFA611301R1006	42	P9M-ET4GN1	1SFA184063R9003	59
MPD5-11Y	1SFA611134R1103	20	MTS2-30B	1SFA611301R3006	42	P9M-ET4LL1	1SFA184566R9104	60
MPD6-11B	1SFA611135R1106	19	MTS3-10B	1SFA611302R1006	42	P9M-ET4NN1	1SFA184060R9006	59
MPD6-11C	1SFA611135R1108	20	MTS3-30B	1SFA611302R3006	42	P9M-ET4RL1	1SFA184561R9101	60
MPD6-11G	1SFA611135R1102	20	P9A-CA6	1SFA188804R8000	80	P9M-ET4RN1	1SFA184061R9001	59
MPD7-11B	1SFA611136R1106	19	P9A-CDPP	1SFA187843R8000	56, 58, 80	P9M-ET4VL1	1SFA184562R9102	60
MPD7-11G	1SFA611136R1102	20	P9A-CFS3	1SFA187841R8000	76	P9M-ET4VN1	1SFA184062R9002	59
MPD8-11B	1SFA611137R1106	19	P9A-CFS5	1SFA187842R8000	76	P9M-LAD	1SFA184795R9009	61
MPD8-11C	1SFA611137R1108	20	P9A-CRCL	1SFA187840R8000	80	P9M-LBD	1SFA184797R9005	61
MPD8-11G	1SFA611137R1102	20	P9A-CWAF	1SFA187845R8000	80	P9M-LGD	1SFA184793R9003	61
MPD9-11B	1SFA611138R1106	19	P9A-RAM32	1SFA188801R8000	80	P9M-LID	1SFA184798R9008	61
MPEK3-11B	1SFA611522R1106	24	P9A-RCST	1SFA187490R8000	80	P9M-LLD	1SFA184796R9004	61
MPEK3-11R	1SFA611522R1101	23	P9A-RSCMB	1SFA188044R8000	73	P9M-LRD	1SFA184791R9001	61
MPEK3-12R	1SFA611522R1201	23	P9A-RSCMN	1SFA188043R8000	73	P9M-LVD	1SFA184792R9002	61
MPEK3-13R	1SFA611522R1301	23	P9A-RSGMB	1SFA187496R8000	73	P9M-MB2A	1SFA184712R9006	72
MPEK4-11B	1SFA611525R1106	24	P9A-RSGMN	1SFA187495R8000	73	P9M-MB2F	1SFA184710R9006	72
MPEK4-11R	1SFA611525R1101	23	P9B-01FN	1SFA187012R8310	76	P9M-MB2FG	1SFA184709R9006	72
MPEK4-12R	1SFA611525R1201	23	P9B-01VN	1SFA187001R8010	76	P9M-MB2T	1SFA184711R9006	72
MPEK4-13R	1SFA611525R1301	23				P9M-MB4F	1SFA184740R9006	72

Index

Type classification

Type	Order code	Page	Type	Order code	Page	Type	Order code	Page
P9M-MB4T	1SFA184741R9006	72	P9M-PNVG	1SFA184002R9002	56	P9M-SCZ5H01	1SFA193050R9006	70
P9M-MB4TG	1SFA184744R9006	72	P9M-PNVG006	1SFA187118R9502	57	P9M-SCZ5H95	1SFA184463R9006	70
P9M-MN2A	1SFA184702R9006	72	P9M-PNVG028	1SFA187112R9502	57	P9M-SLD0A	1SFA184595R9109	63
P9M-MN2B	1SFA184703R9006	72	P9M-PNVG030	1SFA187146R9502	57	P9M-SLD0B	1SFA184597R9105	63
P9M-MN2F	1SFA184700R9006	72	P9M-PNVG202	1SFA187149R9502	57	P9M-SLD0G	1SFA184593R9103	63
P9M-MN2T	1SFA184701R9006	72	P9M-PNVS	1SFA184012R9002	56	P9M-SLD0I	1SFA184598R9108	63
P9M-MN4F	1SFA184720R9006	72	P9M-PS22G	1SFA184691R9006	75	P9M-SLD0L	1SFA184596R9104	63
P9M-MN4T	1SFA184721R9006	72	P9M-PS34G	1SFA184693R9006	75	P9M-SLD0R	1SFA184591R9101	63
P9M-MN4TG	1SFA184716R9006	72	P9M-SAD0B	1SFA184647R9105	63	P9M-SLD0V	1SFA184592R9102	63
P9M-PLAGD	1SFA184495R9109	58	P9M-SAD0L	1SFA184646R9104	63	P9M-SLZ0A	1SFA184605R9109	65
P9M-PLASD	1SFA184505R9109	58	P9M-SAD0R	1SFA184641R9101	63	P9M-SLZ0B	1SFA184607R9105	65
P9M-PLBGD	1SFA184497R9105	58	P9M-SAD0V	1SFA184642R9102	63	P9M-SLZ0G	1SFA184603R9103	65
P9M-PLBGV	1SFA184527R9105	58	P9M-SAZ0B	1SFA184657R9105	65	P9M-SLZ0L	1SFA184606R9104	65
P9M-PLBSD	1SFA184507R9105	58	P9M-SAZ0V	1SFA184652R9102	65	P9M-SLZ0R	1SFA184601R9101	65
P9M-PLGGD	1SFA184493R9103	58	P9M-SAZ3A	1SFA184685R9109	65	P9M-SLZ0V	1SFA184602R9102	65
P9M-PLGGV	1SFA184523R9103	58	P9M-SAZ3B	1SFA184687R9105	65	P9M-SLZ1B	1SFA184617R9105	65
P9M-PLGSD	1SFA184503R9103	58	P9M-SAZ3V	1SFA184682R9102	65	P9M-SLZ1G	1SFA184613R9103	65
P9M-PLIGD	1SFA184498R9108	58	P9M-SCD0A01	1SFA192105R9006	68	P9MSLZ1L	1SFA184616R9104	65
P9M-PLLGD	1SFA184496R9104	58	P9M-SCD0A37	1SFA192117R9006	68	P9M-SLZ1R	1SFA184611R9101	65
P9M-PLLGV	1SFA184526R9104	58	P9M-SCD0A95	1SFA184400R9006	68	P9M-SLZ1V	1SFA184612R9102	65
P9M-PLLSD	1SFA184506R9104	58	P9M-SCD0E01	1SFA192120R9006	68	P9M-SLZ3A	1SFA184635R9109	65
P9M-PLRGD	1SFA184491R9101	58	P9M-SCD0E95	1SFA184401R9006	68	P9M-SLZ3B	1SFA184637R9105	65
P9M-PLRGV	1SFA184521R9101	58	P9M-SCD0K01	1SFA192135R9006	68	P9M-SLZ3G	1SFA184633R9103	65
P9M-PLRSD	1SFA184501R9101	58	P9M-SCD0K37	1SFA192147R9006	68	P9M-SLZ3I	1SFA184638R9108	65
P9M-PLVGD	1SFA184492R9102	58	P9M-SCD0K95	1SFA184402R9006	68	P9M-SLZ3L	1SFA184636R9104	65
P9M-PLVGV	1SFA184522R9102	58	P9M-SCD5A01	1SFA192240R9006	68	P9M-SLZ3R	1SFA184631R9101	65
P9M-PLVSD	1SFA184502R9102	58	P9MSCD5A33	1SFA192250R9006	68	P9M-SLZ3V	1SFA184632R9102	65
P9M-PNBG	1SFA184007R9005	56	P9M-SCD5A37	1SFA192252R9006	68	P9M-SLZ5I	1SFA184628R9108	65
P9M-PNBG006	1SFA187152R9505	57	P9M-SCD5A95	1SFA184409R9006	68	P9M-SLZ5L	1SFA184626R9104	65
P9M-PNBG028	1SFA187151R9505	57	P9M-SCI0C01	1SFA192150R9006	68	P9M-SLZ5R	1SFA184621R9101	65
P9M-PNBG030	1SFA188057R9505	57	P9M-SCI0C37	1SFA192162R9006	68	P9M-SLZ5V	1SFA184622R9102	65
P9M-PNBS	1SFA184017R9005	56	P9M-SCI0C95	1SFA184403R9006	68	P9M-SMD0N	1SFA184110R9006	62
P9M-PNGG	1SFA184003R9003	56	P9M-SCI0E01	1SFA192165R9006	68	P9M-SMD0R	1SFA184111R9001	62
P9M-PNGS	1SFA184057R9003	56	P9M-SCI0E95	1SFA184404R9006	68	P9M-SMD5G	1SFA184143R9003	62
P9M-PNHG	1SFA184008R9007	56	P9M-SCI0N95	1SFA184405R9006	68	P9M-SMD5N	1SFA184140R9006	62
P9M-PNLG	1SFA184006R9004	56	P9M-SCI5C01	1SFA192255R9006	68	P9M-SMD5R	1SFA184141R9001	62
P9M-PNLG007	1SFA188900R9504	57	P9M-SCI5C37	1SFA192267R9006	68	P9M-SMI0G	1SFA184123R9003	62
P9M-PNLG037	1SFA187143R9504	57	P9M-SCI5C95	1SFA184410R9006	68	P9M-SMI0N	1SFA184120R9006	62
P9M-PNLS	1SFA184016R9004	56	P9M-SCX0A95	1SFA184468R9006	71	P9M-SMI5N	1SFA184150R9006	62
P9M-PNNG	1SFA184000R9006	56	P9M-SCX0Z01	1SFA193335R9006	71	P9M-SMI5R	1SFA184151R9001	62
P9M-PNNG002	1SFA187139R9506	57	P9M-SCX0Z95	1SFA184482R9006	71	P9M-SMI5V	1SFA184152R9002	62
P9M-PNNG006	1SFA187117R9506	57	P9M-SCZ0A95	1SFA184433R9006	69	P9M-SMW0N	1SFA184360R9006	67
P9M-PNNG028	1SFA187111R9506	57	P9M-SCZ0C95	1SFA184434R9006	69	P9M-SMX0N	1SFA184397R9006	66
P9M-PNNG029	1SFA187150R9506	57	P9M-SCZ0H95	1SFA184436R9006	69	P9M-SMX5N	1SFA184340R9006	66
P9M-PNNG030	1SFA187145R9506	57	P9M-SCZ0N95	1SFA184438R9006	69	P9M-SMY0N	1SFA184350R9006	67
P9MPNNG085	1SFA188886R9506	57	P9M-SCZ0T01	1SFA192690R9006	69	P9M-SMY0R	1SFA184351R9001	67
P9M-PNNG201	1SFA188908R9506	57	P9M-SCZ0T37	1SFA192702R9006	69	P9M-SMZ0N	1SFA184200R9006	64
P9M-PNNS	1SFA184010R9006	56	P9M-SCZ0T95	1SFA184439R9006	69	P9M-SMZ0R	1SFA184201R9001	64
P9M-PNNS029	1SFA187250R9506	57	P9M-SCZ1C95	1SFA184449R9006	69	P9M-SMZ1N	1SFA184240R9006	64
P9M-PNNS032	1SFA187235R9506	57	P9M-SCZ1N95	1SFA184451R9006	69	P9M-SMZ1R	1SFA184241R9001	64
P9M-PNRG	1SFA184001R9001	56	P9M-SCZ3C01	1SFA193110R9006	70	P9M-SMZ3N	1SFA184320R9006	64
P9M-PNRG029	1SFA187110R9501	57	P9M-SCZ3C95	1SFA184467R9006	70	P9M-SMZ3R	1SFA184321R9001	64
P9M-PNRG201	1SFA187147R9501	57	P9M-SCZ5A01	1SFA193020R9006	70	P9M-SMZ5N	1SFA184280R9006	64
P9M-PNRS	1SFA184011R9001	56	P9M-SCZ5A95	1SFA184461R9006	70	P9M-SVD0G	1SFA184822R9003	62
P9M-PNRS029	1SFA187210R9501	57	P9M-SCZ5C95	1SFA184462R9006	70	P9M-SVD0N	1SFA184370R9006	62

Index

Type classification

Type	Order code	Page
P9M-SVD5N	1SFA184373R9006	62
P9M-SV10N	1SFA184371R9006	62
P9M-SV15N	1SFA184374R9006	62
P9M-SVX0N	1SFA184392R9006	66
P9M-SVX5N	1SFA184393R9006	66
P9M-SVZ0N	1SFA184379R9006	64
P9M-SVZ0R	1SFA184856R9001	64
P9M-SVZ1N	1SFA184383R9006	64
P9M-SVZ3N	1SFA184391R9006	64
P9M-SVZ5N	1SFA184387R9006	64
P9P-DNF0	1SFA187055R1300	77
P9P-DNF0-AA	1SFA215834R1300	77
P9P-DNV0	1SFA187020R1080	77
P9P-DNV0-AA	1SFA215831R1000	77
P9P-DTV0	1SFA187027R8000	77
P9P-LFVDA	1SFA197018R1019	79
P9P-LFVDB	1SFA197019R1015	79
P9P-LFVDG	1SFA197020R1013	79
P9P-LFVDL	1SFA197021R1014	79
P9P-LFVDR	1SFA197022R1011	79
P9P-LFVDV	1SFA197023R1012	79
P9P-LFVJB	1SFA197025R1045	79
P9P-LFVJG	1SFA197026R1043	79
P9P-LFVJR	1SFA197028R1041	79
P9P-LFVNB	1SFA197031R1075	79
P9P-LFVNG	1SFA197032R1073	79
P9P-LFVNR	1SFA197034R1071	79
P9P-LNVDB	1SFA197001R1015	79
P9P-LNV DG	1SFA197002R1013	79
P9P-LNV DL	1SFA197003R1014	79
P9P-LNV DR	1SFA197004R1011	79
P9P-LNV DV	1SFA197005R1012	79
P9P-LNV JB	1SFA197007R1045	79
P9P-LNV JG	1SFA197008R1043	79
P9P-LNV JL	1SFA197009R1044	79
P9P-LNV JR	1SFA197010R1041	79
P9P-LNV JV	1SFA197011R1042	79
P9P-LNV NB	1SFA197013R1075	79
P9P-LNV NG	1SFA197014R1073	79
P9P-LNV NL	1SFA197015R1074	79
P9P-LNV NR	1SFA197016R1071	79
P9P-LNV NV	1SFA197017R1072	79
	4950512-1	105
	4950512-2	105
	4950512-3	105
	SK615502-D	47, 110
	SK615512-1	47, 110
	SK615516-1	124
	SK615546-1	136
	SK615546-13	136
	SK615546-15	136
	SK615546-2	136
	SK615546-3	136
	SK615546-4	136
	SK615546-5	136

Type	Order code	Page
	SK615546-6	136
	SK615546-8	136
	SK615550-29	137
	SK615562-82	137
	SK615562-87	38
	SK615562-88	38
	SK616016-2	47, 110
	SK616021-71	48, 111
	SK616021-72	48, 111
	SK616021-73	48, 111

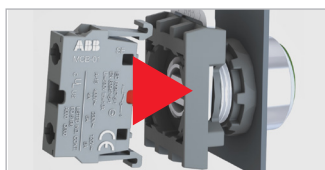
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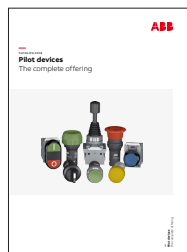


IPX7 submersion test



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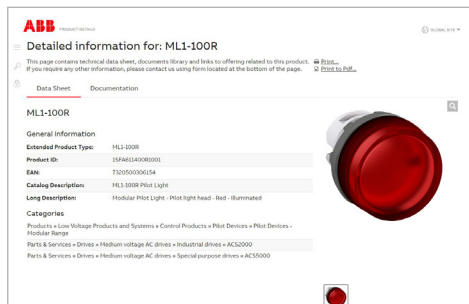
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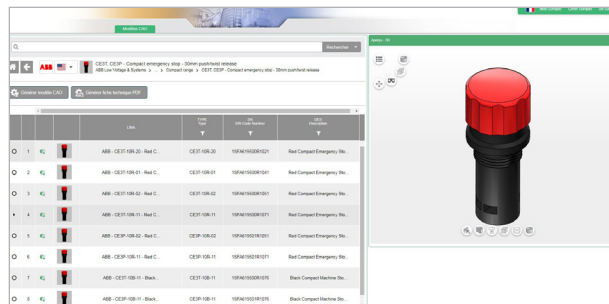
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Customer service / Technical Support:

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