

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

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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.

—
01—
02—
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.



—
04

—
04 Food and beverage
—
05 Marine and ports

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



—
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

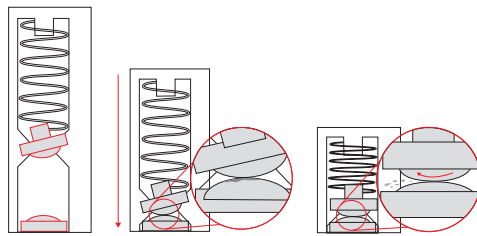
- ABB pilot Devices are engineered and tested to sustain frequent use over time in any environment

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

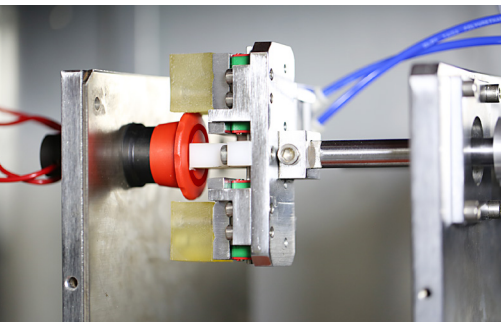
—
03 Powerful water jets projected against the front from a distance of 3 meters

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

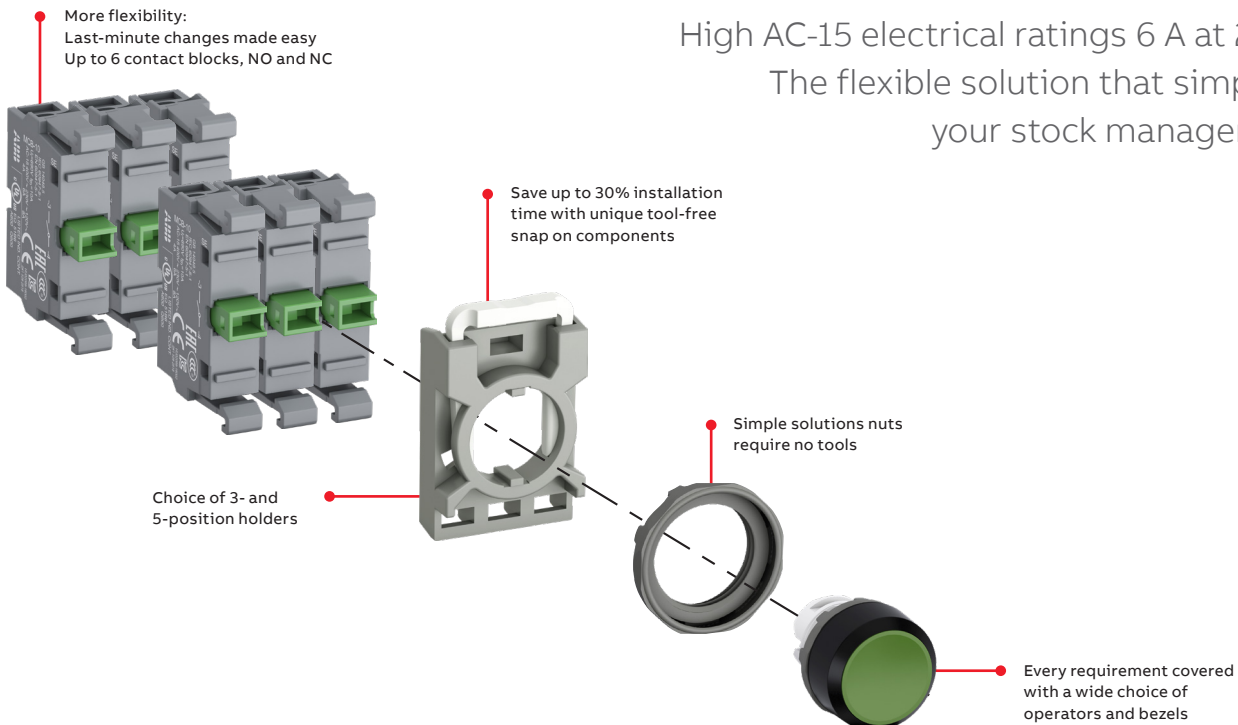
Reduce installation time by choosing between the flexible modular ranges and the all-in-one compact range of pilot devices.

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

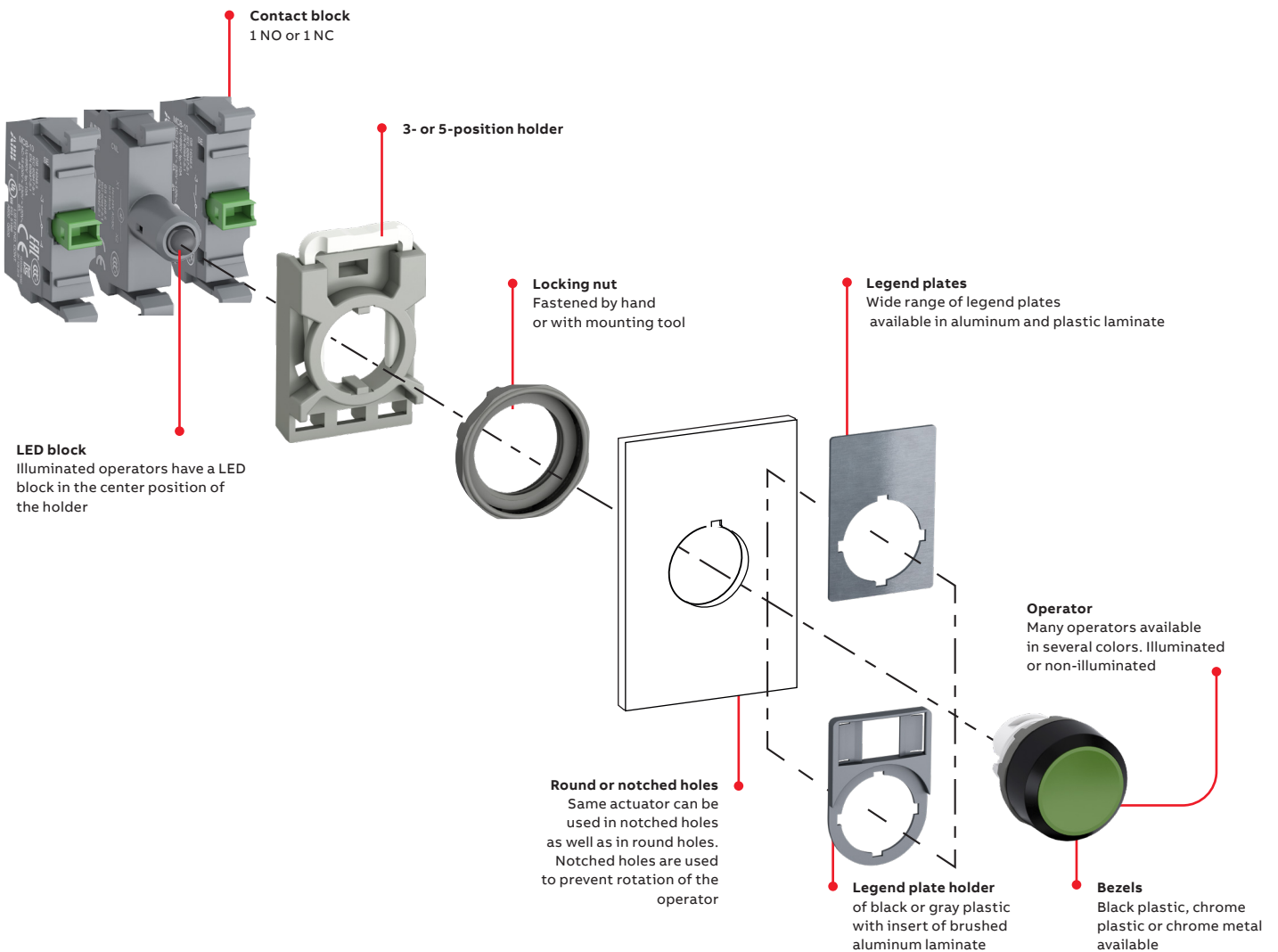
Accessories for modular range

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

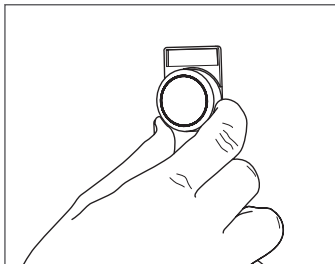
49 Technical data

53 Drilling plan

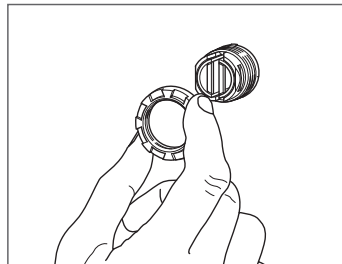
Modular plastic range



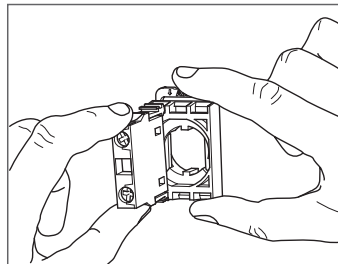
Easy to install



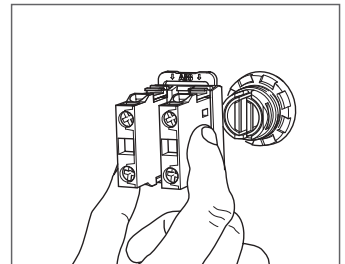
The operator is to be inserted from the front...



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

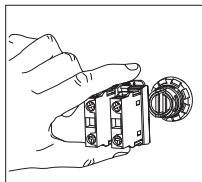
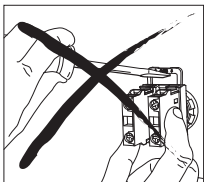


The contact blocks/LED block are then snapped on to the holder...



...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

1SFC151004V0001



MP1-10Y

1SFC151016V0001



MP1-30L

1SFC151033V0001



MP2-10G

1SFC151015V0001



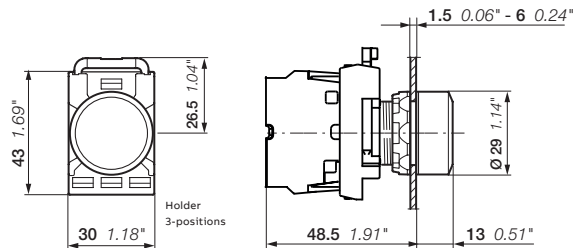
MP2-10W

1SFC151018V0001



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

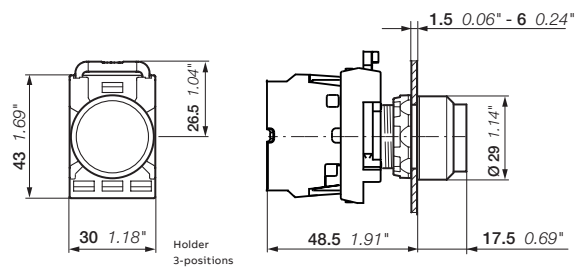
Dimensions (mm, inches)

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
	Chrome metal	MP4-30G	1SFA611103R3002	1	0.026
● 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
	Chrome metal	MP4-30Y	1SFA611103R3003	1	0.026
● Blue	Black plastic	MP4-10L	1SFA611103R1004	1	0.016
	Chrome metal	MP4-30L	1SFA611103R3004	1	0.026
○ White	Black plastic	MP4-10W	1SFA611103R1005	1	0.016
	Chrome metal	MP4-30W	1SFA611103R3005	1	0.026
● 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
	Chrome metal	MP4-30C	1SFA611103R3008	1	0.026



MP3, MP4

Dimensions (mm, inches)

Modular plastic range

Illuminated flush pushbuttons



1SFCL51048V0001

MP1-31G



1SFCL51042V0001

MP1-11Y



MP1-31L



1SFCL51046V0001

MP2-31R



1SFCL51040V0001

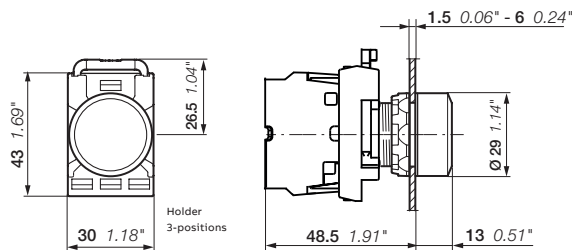
MP2-11L



1SFCL51044V0001

MP2-11C

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

02



MP3-11R



MP3-31G



MP3-11W



MP4-11Y

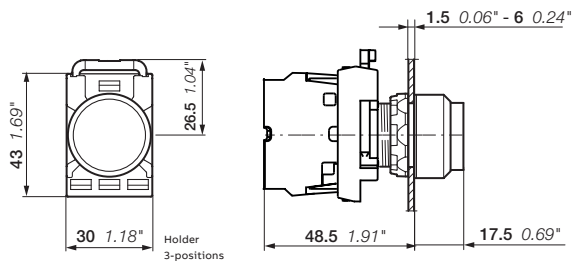


MP4-31L



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
	Chrome metal	MP4-31Y	1SFA611103R3103	1	0.026
● 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
	Chrome metal	MP4-31W	1SFA611103R3105	1	0.026
○ 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



MPD5-11B



MPD13-11B



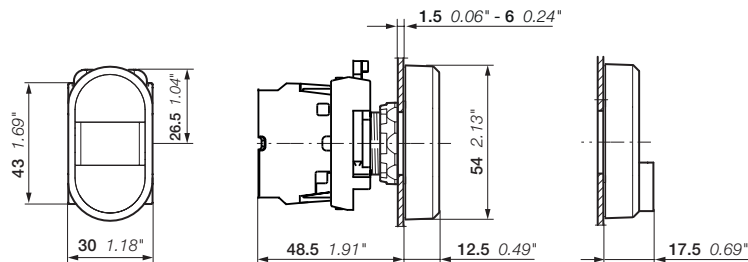
MPD15-11B



MA1-8139

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	0	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	0	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	0	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	0	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

1SFC151088V0001



MPD5-11C

1SFC151100V0001



MPD2-11R

1SFC151078V0001



MPD3-11G

1SFC151083V0001

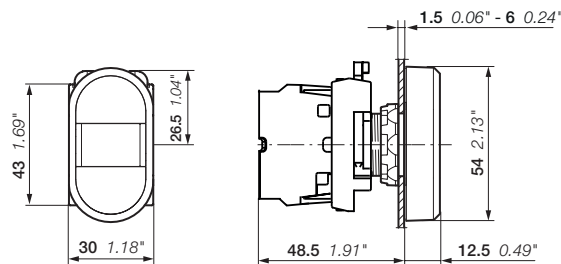


MA1-8139

1SFC151344F0001

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



MPD12-11C



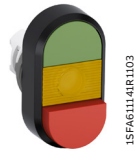
MPD14-11C



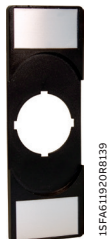
MDP13-11R



MPD14-11G



MDP12-11Y



MA1-8139

Operator upper button	Operator lower button	Type	Order code	Pkg qty	Weight (1 pce) kg
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Clear light indicator

Green	Red	Type	Order code	Pkg qty	Weight (1 pce) kg
No text	No text	MPD12-11C	1SFA611144R1108	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	Type	Order code	Pkg qty	Weight (1 pce) kg
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	Type	Order code	Pkg qty	Weight (1 pce) kg
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	Type	Order code	Pkg qty	Weight (1 pce) kg
No text	No text	MPD16-11R	1SFA611145R1101	1	0.025

Green light indicator

Green	Red	Type	Order code	Pkg qty	Weight (1 pce) kg
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	Type	Order code	Pkg qty	Weight (1 pce) kg
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

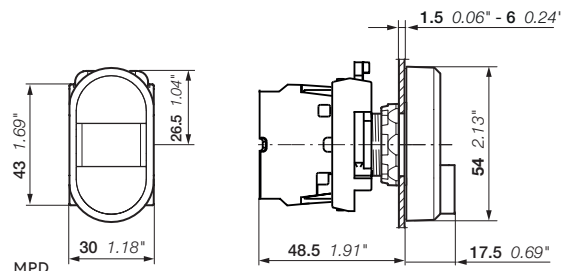
Green	Red	Type	Order code	Pkg qty	Weight (1 pce) kg
No text	No text	MPD12-11Y	1SFA611141R1103	1	0.025
I	0	MPD13-11Y	1SFA611142R1103	1	0.025
ON	OFF	MPD14-11Y	1SFA611143R1103	1	0.025
START	STOP	MPD15-11Y	1SFA611144R1103	1	0.025
White	Black	Type	Order code	Pkg qty	Weight (1 pce) kg
No text	No text	MPD16-11Y	1SFA611145R1103	1	0.025
I	0	MPD17-11Y	1SFA611146R1103	1	0.025

Accessories

Legend plate holder

2-position	MA1-8139	1SFA611920R8139	10	0.030
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Note: Insert not included. Suitable for insert size 27 x 15 mm. Refer to Legend plates section.



Modular plastic range

Mushroom pushbuttons momentary



1SFC151007V0001

MPM1-10G



1SFC151010V0001

MPM1-10B



1SFC151073V0001

MPM2-10R



1SFC151074V0001

MPM2-10Y



1SFC151173V0001

MPM1-11G



1SFC151155V0001

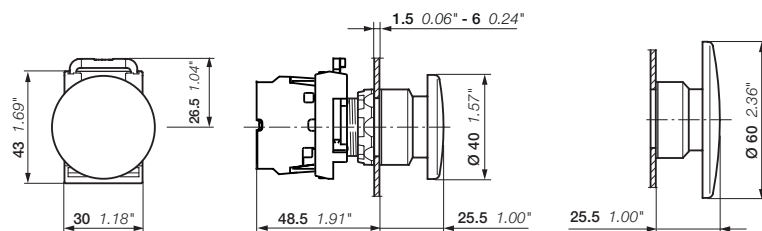
MPM2-11R

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



MPEK3-11R



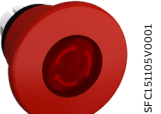
MPET4-10R



MPMP4-10R



MPMP3-11R



MPMT4-11R

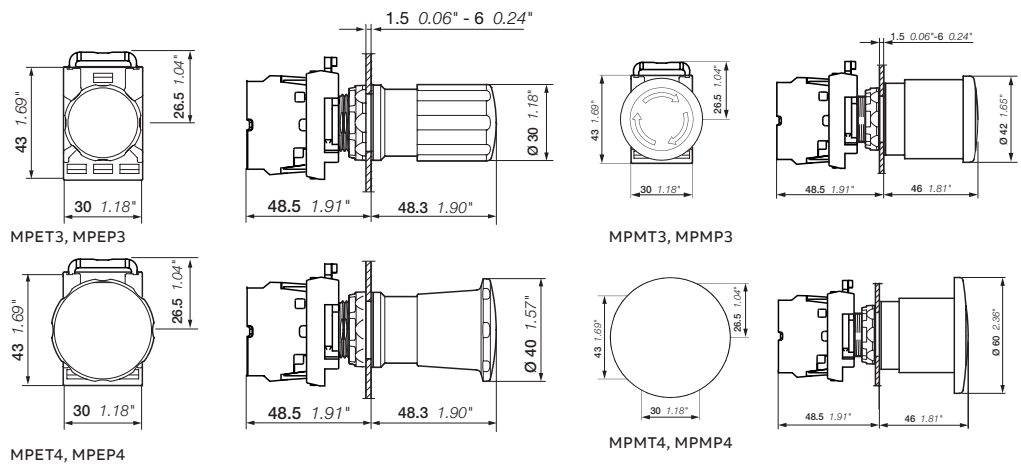
Non illuminated

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



MPET3-10B



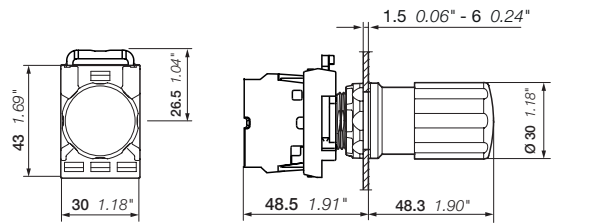
MPET4-10B



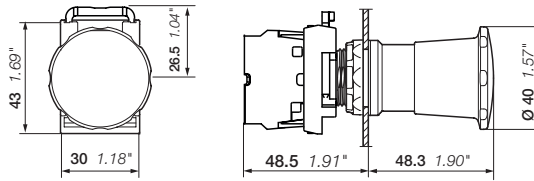
MPEK4-11B

Non illuminated

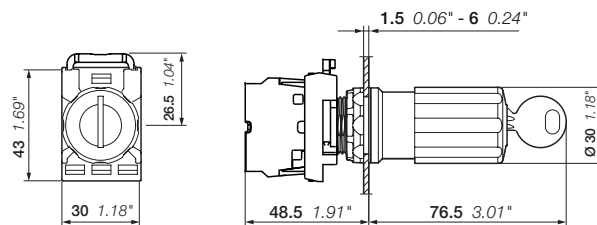
Operator	Release method	Type	Order code	Pkg qty	Weight (1 pce) kg
Ø 30 mm					
● Black	Twist release	MPET3-10B	1SFA611520R1006	1	0.036
● Black	Pull release	MPEP3-10B	1SFA611521R1006	1	0.036
● Black	Key code 455	MPEK3-11B	1SFA611522R1106	1	0.065
Ø 40 mm					
● Black	Twist release	MPET4-10B	1SFA611523R1006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



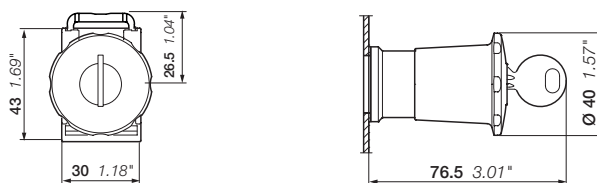
MPET3, MPEP3



MPET4, MPEP4



MPEK3



MPEK4

Dimensions (mm, inches)

Modular plastic range

Heavy duty pushbuttons



KP6-40R

1SFC151335V0001



KP6-40G

1SFC151336V0001



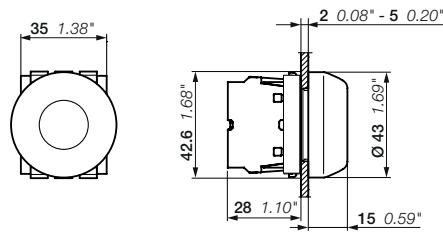
KP6-40B

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

1SFC15135V0001



ML1-100Y

1SFC151336V0001



ML1-100C

1SFC15138V0001



ML1-100L

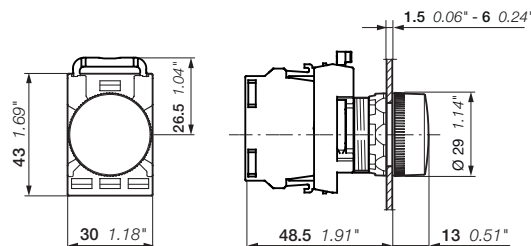
1SFC151337V0001

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)

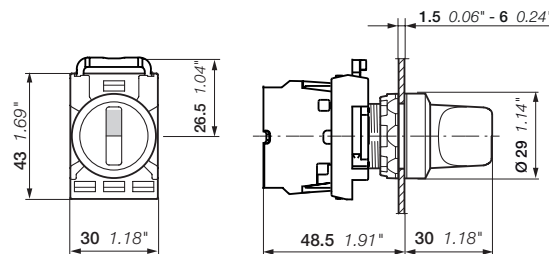
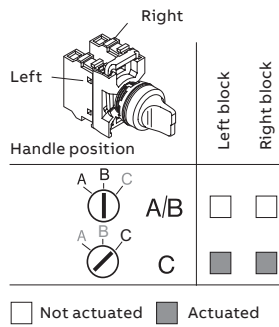
Modular plastic range

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
	● 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
	● Red	Black plastic	M2SS3-10R	1SFA611202R1001	1	0.015
		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	M2SS1-10U	1SFA611200R1007	1	0.015	
	Chrome metal	M2SS2-10U	1SFA611201R1007	1	0.015	
● Grey	Black plastic	M2SS2-10U	1SFA611201R1007	1	0.015	
	Chrome metal	M2SS2-30U	1SFA611201R3007	1	0.024	
● Grey	Black plastic	M2SS3-10U	1SFA611202R1007	1	0.015	
	Chrome metal	M2SS3-30U	1SFA611202R3007	1	0.024	

Contacts actuated



M2SS

Dimensions (mm, inches)

Modular plastic range

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



M2SS4-10R



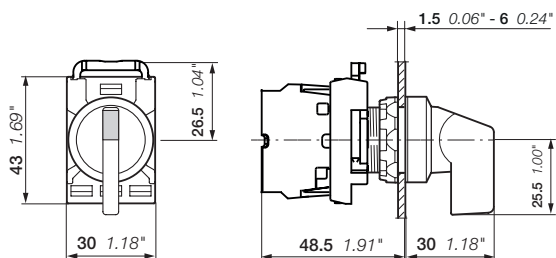
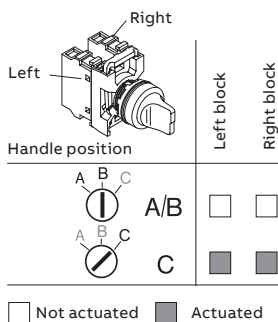
M2SS4-30B



M2SS4-10U

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
	● 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
	● Grey	Black plastic	M2SS5-10U	1SFA611204R1007	1	0.018
	● 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)

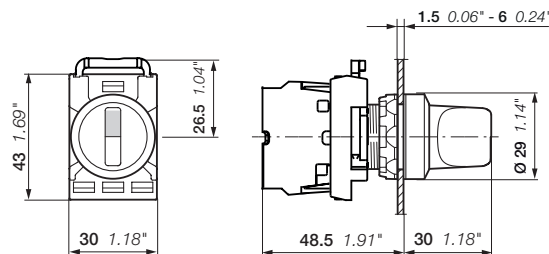
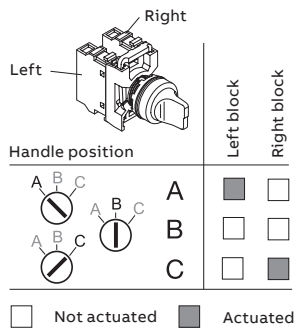
Modular plastic range

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



M3SS4-10R

1SFCL51900V0001



M3SS5-30B

1SFCL51898V0001

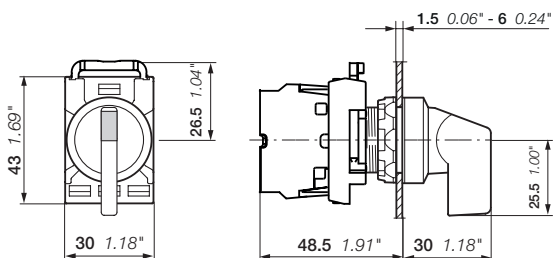
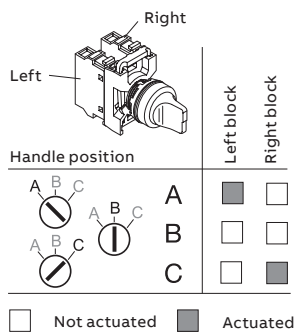


M3SS6-10U

1SFCL51899V0001

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

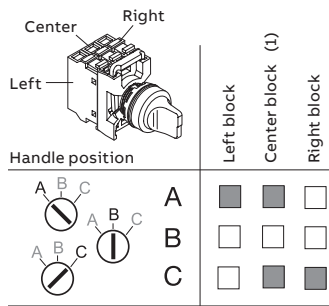
Non-illuminated selector switches–3-position–Short handle



Center block operating

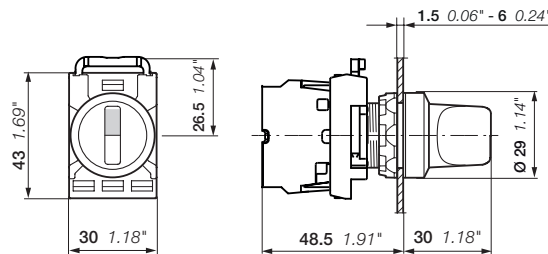
Operating principle	Color	Bezel	Type	Order code	Pkg qty	Weight (1 pce) kg
	● Black	Black plastic	M3SSC1-10B	1SFA611250R1006	1	0.015
		Chrome metal	M3SSC1-30B	1SFA611250R3006	1	0.024
	● Black	Black plastic	M3SSC2-10B	1SFA611251R1006	1	0.015
		Chrome metal	M3SSC2-30B	1SFA611251R3006	1	0.024
	● Black	Black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



□ Not actuated ■ 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.

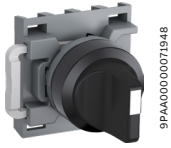


M3SSC

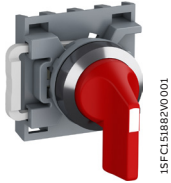
Dimensions (mm, inches)

Modular range

Non-illuminated selector switches–4-position



M4SS1-10B

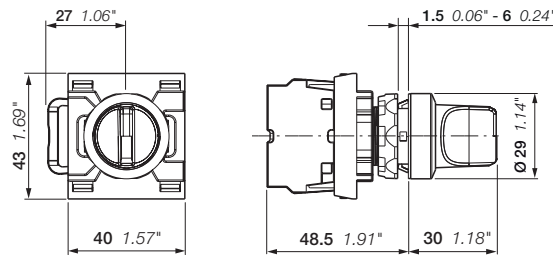
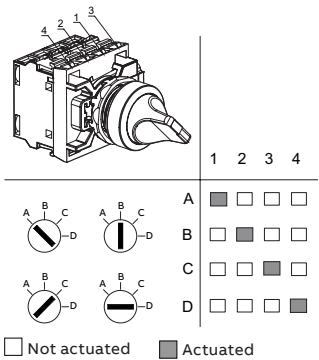


M4SS2-30R

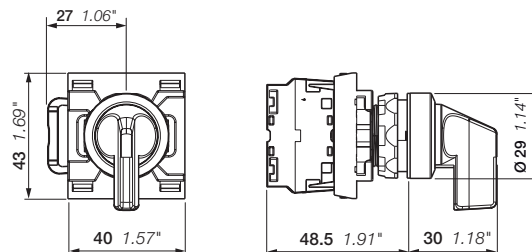
4 position holder included. Contact blocks need to order separately.

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

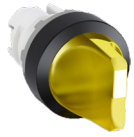
Illuminated selector switches–2-position–Short handle



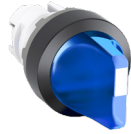
M2SS1-11R



M2SS1-31G






M2SS2-11Y



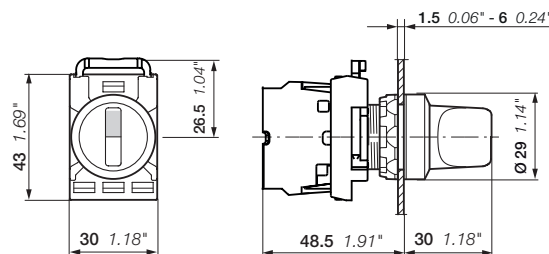
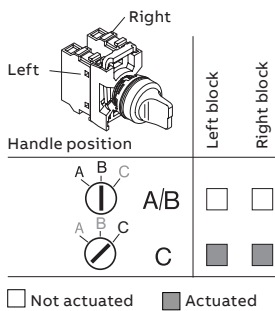
M2SS2-11L



M2SS3-11C

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
	● Red	Black plastic	M2SS2-11R	1SFA611201R1101	1	0.015
		Chrome metal	M2SS2-31R	1SFA611201R3101	1	0.024
	● 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
	● 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
○ Clear	Black plastic	M2SS3-11C	1SFA611202R1108	1	0.015	
	Chrome metal	M2SS3-31C	1SFA611202R3108	1	0.024	

Contacts actuated



M2SS

Dimensions (mm, inches)

Modular plastic range

Illuminated selector switches–2-position–Long handle



M2SS4-11R

15FC151895V0001



M2SS4-31G

15FC151889V0001

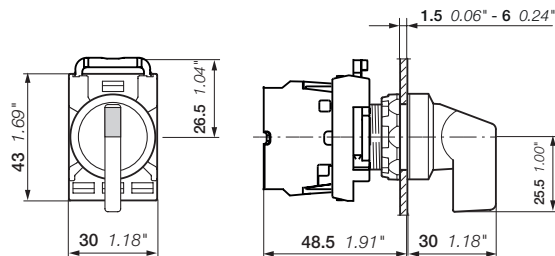
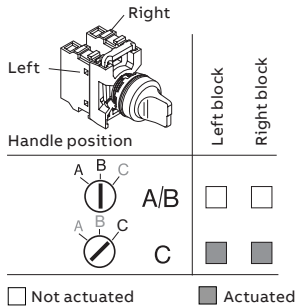


M2SS5-11Y

15FC151893V0001

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
	● 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

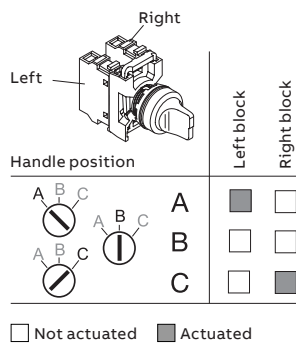
Dimensions (mm, inches)

Modular plastic range

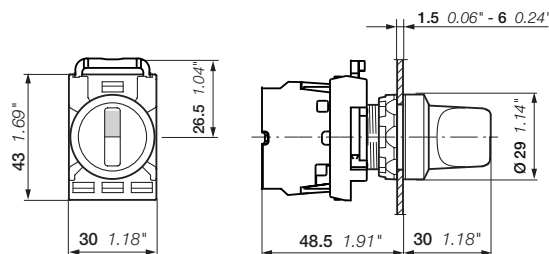
Illuminated selector switches–3-position–Short handle



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	
○ 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
		Chrome metal	M3SS2-31Y	1SFA611211R3103	1	0.024
● Blue	Black plastic	M3SS2-11L	1SFA611211R1104	1	0.015	
	Chrome metal	M3SS2-31L	1SFA611211R3104	1	0.024	
○ 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
		Chrome metal	M3SS3-31R	1SFA611212R3101	1	0.024
	● Green	Black plastic	M3SS3-11G	1SFA611212R1102	1	0.015
		Chrome metal	M3SS3-31G	1SFA611212R3102	1	0.024
	● Yellow	Black plastic	M3SS3-11Y	1SFA611212R1103	1	0.015
		Chrome metal	M3SS3-31Y	1SFA611212R3103	1	0.024
● Blue	Black plastic	M3SS3-11L	1SFA611212R1104	1	0.015	
	Chrome metal	M3SS3-31L	1SFA611212R3104	1	0.024	
○ 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
		Chrome metal	M3SS7-31R	1SFA611216R3101	1	0.024
	● 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
		Chrome metal	M3SS7-31Y	1SFA611216R3103	1	0.024
● Blue	Black plastic	M3SS7-11L	1SFA611216R1104	1	0.015	
	Chrome metal	M3SS7-31L	1SFA611216R3104	1	0.024	
○ Clear	Black plastic	M3SS7-11C	1SFA611216R1108	1	0.015	
	Chrome metal	M3SS7-31C	1SFA611216R3108	1	0.024	



M3SS

Dimensions (mm, inches)

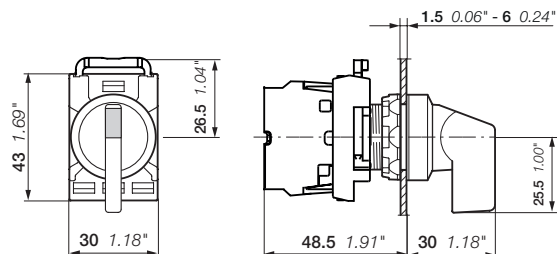
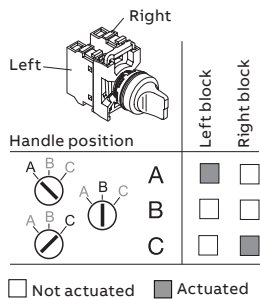
Modular plastic range

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
	● Red	Black plastic	M3SS5-11R	1SFA611214R1101	1	0.018
		Chrome metal	M3SS5-31G	1SFA611214R3102	1	0.027
	● Green	Black plastic	M3SS5-11G	1SFA611214R1102	1	0.018
	● 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
	● Red	Black plastic	M3SS6-11R	1SFA611215R1101	1	0.018
		Chrome metal	M3SS6-11G	1SFA611215R1102	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
	● 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







M2SSK1-101

1SFC151133V0001

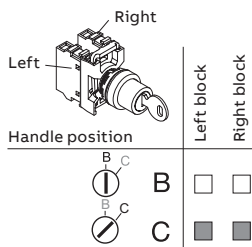
Description

Key-operated selector switches are delivered in black color.

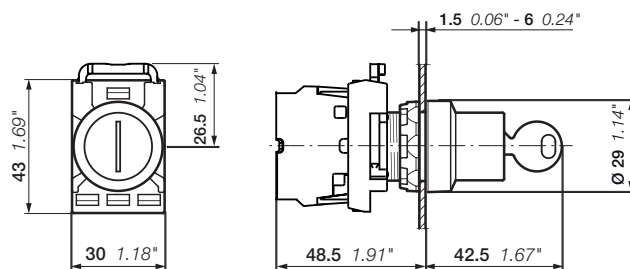
Operating principle	Key	Bezel	Type	Order code	Pkg qty	Weight (1 pce) kg
 Key can be removed in both positions	Key code 455	Black plastic	M2SSK1-101	1SFA611280R1001	1	0.045
		Chrome metal	M2SSK1-301	1SFA611280R3001	1	0.054
	Key code 421	Black plastic	M2SSK1-102	1SFA611280R1002	1	0.045
		Chrome metal	M2SSK1-302	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.

Contacts actuated



Not actuated Actuated



M2SSK

Dimensions (mm, inches)

Modular plastic range

Key-operated selector switches–3-position









M2SSK1-101

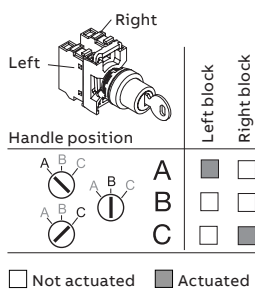
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Description

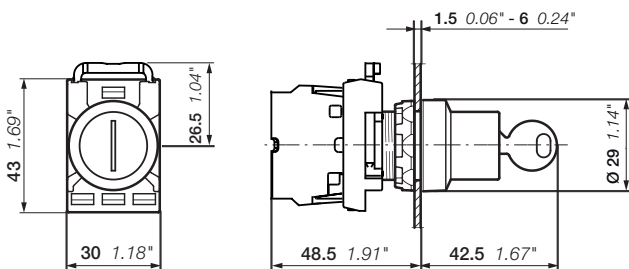
Key-operated selector switches are delivered in black color.

Operating principle	key	Bezel	Type	Order code	Pkg qty (1 pce)	Weight 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
Random selection (1)	Black plastic	M3SSK1-104	1SFA611283R1004	25	0.045	
	Chrome metal	M3SSK1-304	1SFA611283R3004	25	0.054	
 Key can be removed in position B only	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
		Chrome metal	M3SSK2-302	1SFA611284R3002	1	0.054
	Key code 3433-E	Black plastic	M3SSK2-103	1SFA611284R1003	1	0.045
		Chrome metal	M3SSK2-303	1SFA611284R3003	1	0.054
Random selection (1)	Black plastic	M3SSK2-104	1SFA611284R1004	25	0.045	
 Key can be removed in position B only	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
		Chrome metal	M3SSK3-303	1SFA611285R3003	1	0.054
Random selection (1)	Black plastic	M3SSK3-104	1SFA611285R1004	25	0.045	
 Key can be removed in position A only	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 code 3433-E	Black plastic	M3SSK4-103	1SFA611286R1003	1	0.045
		Chrome metal	M3SSK4-303	1SFA611286R3003	1	0.054
Random selection (1)	Black plastic	M3SSK4-104	1SFA611286R1004	25	0.045	
 Key can be removed in all positions	Key code 455	Black plastic	M3SSK5-101	1SFA611287R1001	1	0.045
		Chrome metal	M3SSK5-301	1SFA611287R3001	1	0.054
	Key code 421	Black plastic	M3SSK5-102	1SFA611287R1002	1	0.045
		Chrome metal	M3SSK5-302	1SFA611287R3002	1	0.054
	Key code 3433-E	Black plastic	M3SSK5-103	1SFA611287R1003	1	0.045
		Chrome metal	M3SSK5-303	1SFA611287R3003	1	0.054
Random selection (1)	Black plastic	M3SSK5-104	1SFA611287R1004	25	0.045	
 Key can be removed in A only	Key code 455	Black plastic	M3SSK6-101	1SFA611288R1001	1	0.045
		Chrome metal	M3SSK6-301	1SFA611288R3001	1	0.054

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



1SFA611930R1106

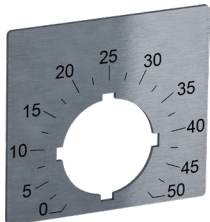
MT-110B

Description

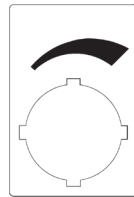
Black knob with integrated position indication and marking in white.

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

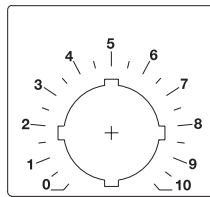
(1) Knob without resistor: for shaft diameter 6-6.35 mm. Min. shaft length 20 mm.



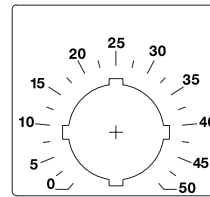
MA6-1252



SK615562-87



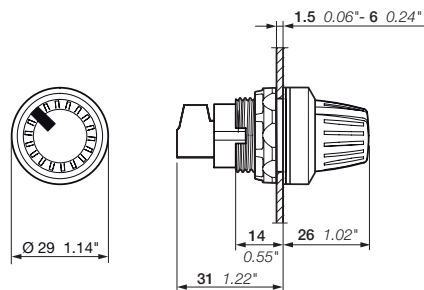
SK615562-88



MA6-1252

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



MT

Dimensions (mm, inches)

Modular plastic range

Reset pushbuttons



KPR1-100G

1SFC151235V0001



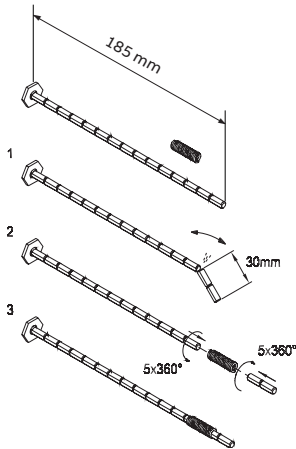
KPR1-101L

1SFC151234V0001



KPR1-104B

1SFC151229V0001



KA1-8046



KA1-8047

1SFC151381V0001

Description

Reset pushbuttons are momentary and include only black plastic bezel.

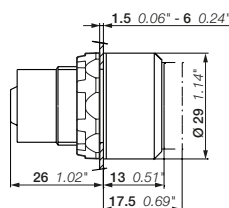
Color	Text	Type	Order code	Pkg qty	Weight (1 pce) kg
Flush reset pushbutton					
● Red	No text	KPR1-100R	1SFA616160R1001	10	0.020
● Green	No text	KPR1-100G	1SFA616160R1002	10	0.020
	I	KPR1-102G	1SFA616160R1022	10	0.020
	No text	KPR1-100Y	1SFA616160R1003	10	0.020
● Blue	No text	KPR1-100L	1SFA616160R1004	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



1SFC151223V0001

KPR3-100R



1SFC151223V0001

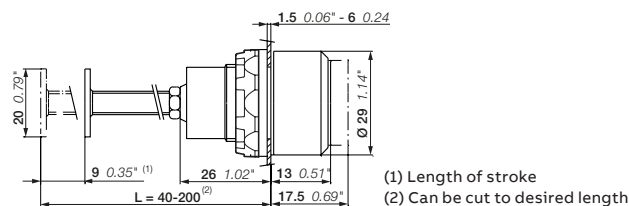
KPR3-104B

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
	II	KPR3-103G	1SFA616162R1032	1	0.027
● Yellow	No text	KPR3-100Y	1SFA616162R1003	1	0.027
● Blue	No text	KPR3-100L	1SFA616162R1004	1	0.027
	R	KPR3-101L	1SFA616162R1014	1	0.027
○ White	No text	KPR3-100W	1SFA616162R1005	1	0.027
	R	KPR3-101W	1SFA616162R1015	1	0.027
● Black	No text	KPR3-100B	1SFA616162R1006	1	0.027
	RESET	KPR3-104B	1SFA616162R1046	1	0.027
Extended reset pushbutton					
● Red	No text	KPR4-100R	1SFA616163R1001	1	0.028
	O	KPR4-105R	1SFA616163R1051	1	0.028
● Black	No text	KPR4-100B	1SFA616163R1006	1	0.028
	O	KPR4-105B	1SFA616163R1056	1	0.028

Note: Flexible joint not included.



KPR3, KPR4

Dimensions (mm, inches)

Modular plastic range

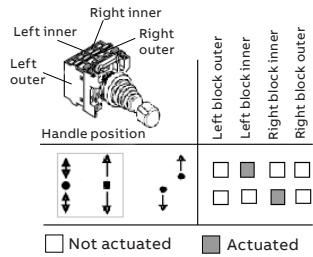
Joysticks



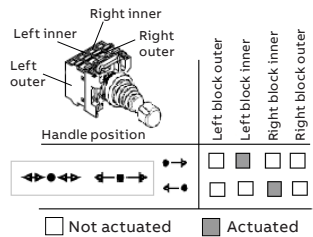
1SFC151871V0001

MJS1-60B

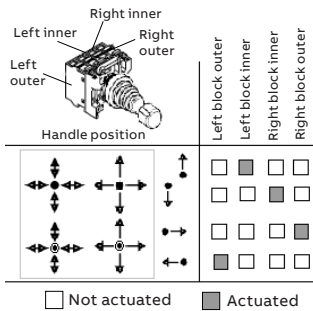
Contacts actuated



Contacts actuated



Contacts actuated



1SFC151481F0001

MA1-8138



1SFC151480F0001

MA1-8137

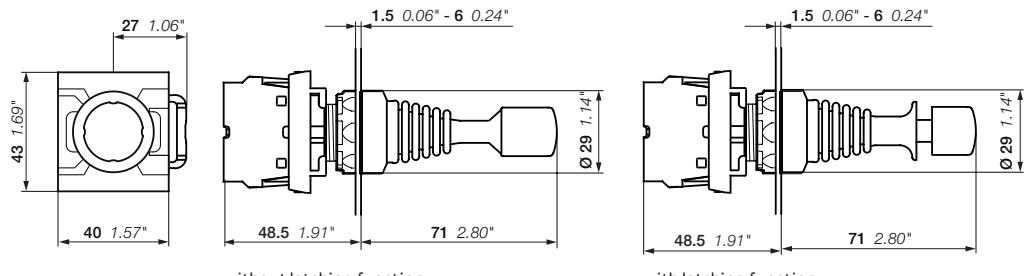
Description

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
↔	Black plastic	MJS10-40B	1SFA611710R4006	1	0.043
	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

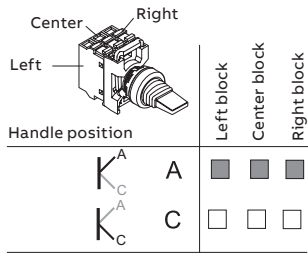
Toggle switches

02



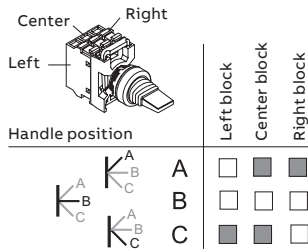
Operating principle	Bezel	Type	Order code	Pkg qty	Weight (1 pce) kg
2-position					
	Black plastic	MTS1-10B	1SFA611300R1006	10	0.014
	Chrome metal	MTS1-30B	1SFA611300R3006	10	0.023
3-position					
	Black plastic	MTS3-10B	1SFA611302R1006	10	0.014
	Chrome metal	MTS3-30B	1SFA611302R3006	10	0.023
	Black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

Contacts actuated, 2-position

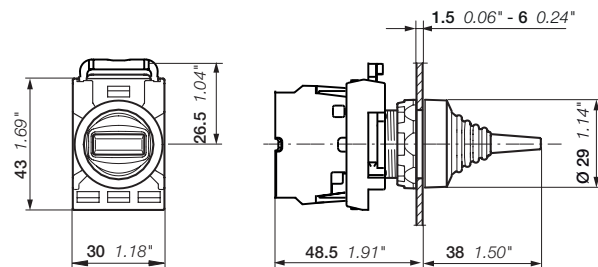


□ Not actuated ■ Actuated

Contacts actuated, 3-position



□ Not actuated ■ Actuated

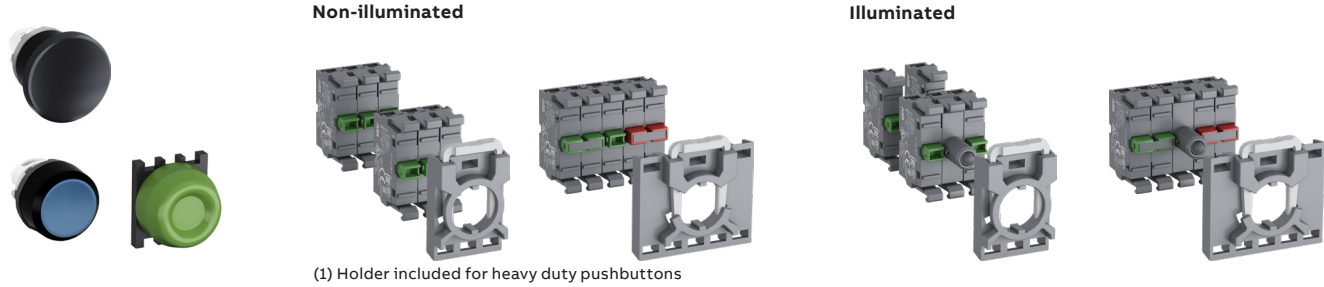


MTS
Dimensions (mm, inches)

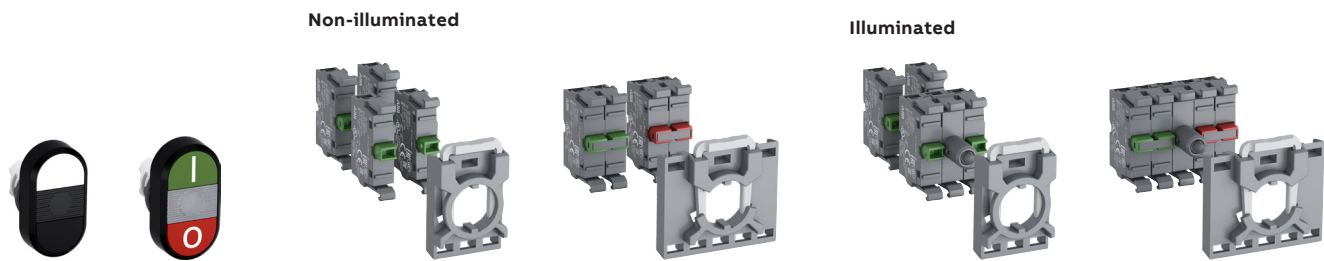
Modular plastic range

Contact block configuration

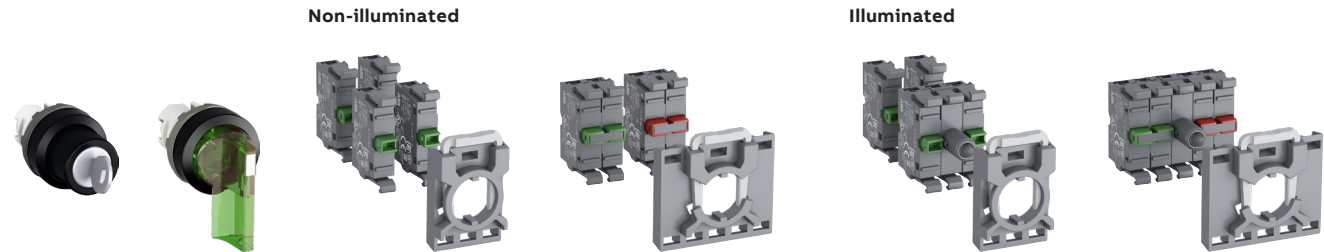
Pushbuttons–Heavy duty pushbuttons (1)–Mushrooms pushbuttons



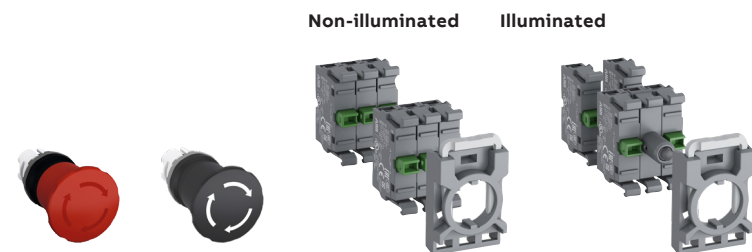
Double pushbuttons



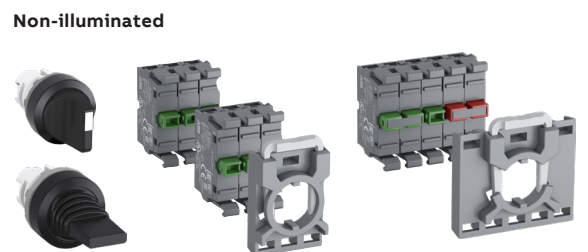
Selector switches



Emergency stop pushbuttons–Machine stop pushbuttons



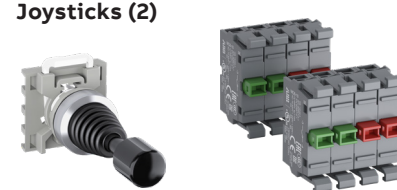
Toggle switches–Center block operating selector switches



Pilot lights



Joysticks (2)



Note: locking nut included with all operators.

(2) Holder is included for joystick.

Modular plastic range

Holders and contact blocks for front mounting

02



MCBH-00



MCBH5-00



MCB-10



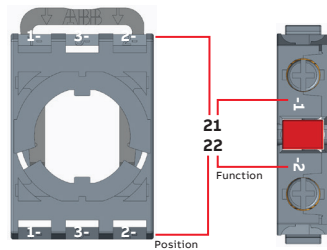
MCB-02



MCBL-01

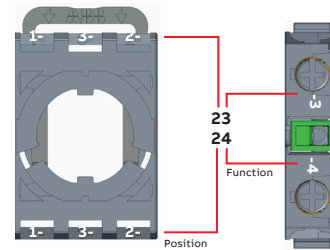
Description	Contacts	Type	Order code	Pkg qty	Weight (1 pce)
Holders					
3-position	--	MCBH-00	1SFA611605R1100	10	0.006
5-position	--	MCBH5-00	1SFA611601R1100	10	0.008
Single contact blocks					
For 3 & 5-position holder	1 0	MCB-10	1SFA611610R1001	10	0.013
	0 1	MCB-01	1SFA611610R1010	10	0.013
Single contact blocks, gold plated contacts					
For 3 & 5-position holder	1 0	MCB-10G	1SFA611610R1101	10	0.013
	0 1	MCB-01G	1SFA611610R1110	10	0.013
Double contacts blocks					
For 3 & 5-position holder	2 0	MCB-20	1SFA611610R1002	10	0.026
	0 2	MCB-02	1SFA611610R1020	10	0.026
	1 1	MCB-11	1SFA611610R1011	10	0.026
Double contact blocks, gold plated contacts					
For 3 & 5-position holder	2 0	MCB-20G	1SFA611610R1102	10	0.026
	0 2	MCB-02G	1SFA611610R1120	10	0.026
	1 1	MCB-11G	1SFA611610R1111	10	0.026
Micro switch contact blocks					
For 3-position holder	1 0	MCBL-10	1SFA611612R1010	10	0.013
	0 1	MCBL-01	1SFA611612R1001	10	0.013

Note: 3 micro switch contact blocks max. allowed. If more than 3 contact blocks are needed, micro switch contact block to be mounted on the second stack.



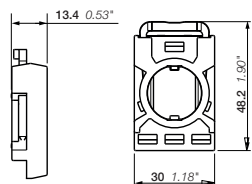
Combined markings

11	31	21
12	32	22

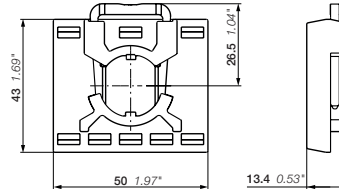


Combined markings

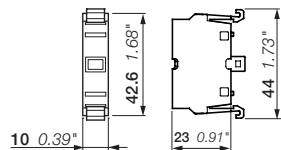
13	33	23
14	34	24



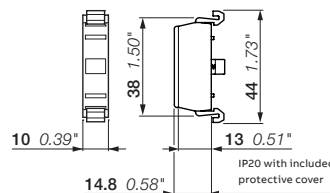
MCBH



MCBH5



MCB



MCBL

Dimensions (mm, inches)

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



MLBL-00W

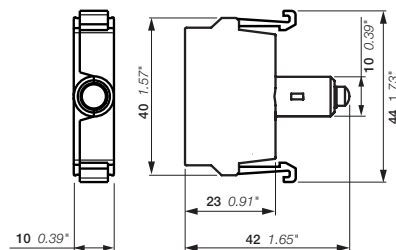
1SFA611621R10001

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)

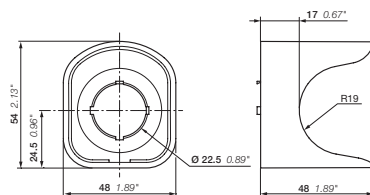
Modular plastic range

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



MA1-8131

1SFCL151276V0001



MDB-2

1SFCL151455F0001



MA1-8015

1SFCL151275V0001



MA1-8149

1SFCL151004F0001



MA1-8019

1SFCL151388V0001

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: 125 V 0.55 A
	at: 240 V 3 A	at: 250 V 0.27 A
	at: 480 V 1.5 A	at: 480 V 0.10 A
	at: 600 V 1.2 A	at: 600 V 0.10 A

Max. number of contact blocks per operator

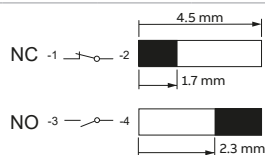
The contact blocks can be stacked in max two levels on the 3-block holder. Only one level is accepted on the 5-block holder.

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



■ = Closed contact

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
Rated operational current, I_e utilization category DC 13,	at: 24 V	0.3 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 V	Main wavelength Nm	Color temperature K
	mA Min.	Max.	lx Min.	Max.			
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 V	Main wavelength Nm	Color temperature K
	mA Min.	Max.	lx Min.	Max.			
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:

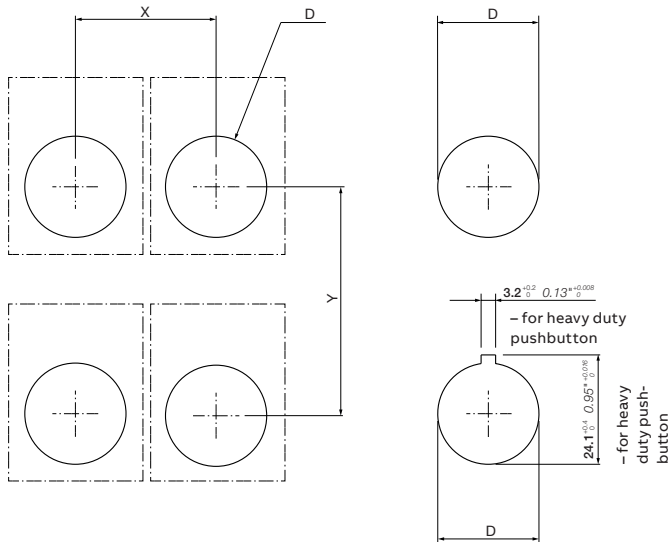
The testing distance of illuminance is 2 mm, between top of lens and the sensor surface. Clean test environment, supply voltage at 50/60 Hz with harmonized wave and without length high frequency.

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

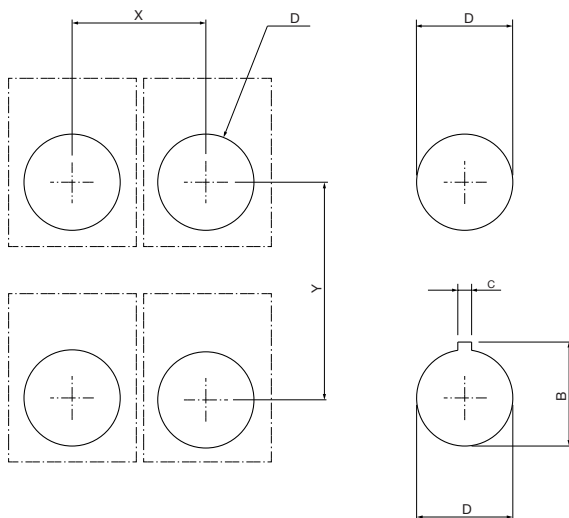
(1) Higher threshold to light up LED to be used in applications where there is risk of large induced voltages.

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
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Modular metal range

Non-illuminated pushbuttons momentary



P9M-PNRG
with holder

1SFC151476V0001



P9M-PNGG

1SFC151529V0001



P9M-PNBG

1SFC151530V0001



P9M-PNNG

1SFC151528V0001



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-PNLS	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

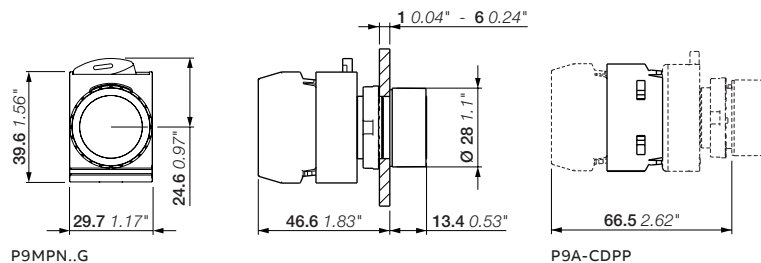
Extended pushbutton

● 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

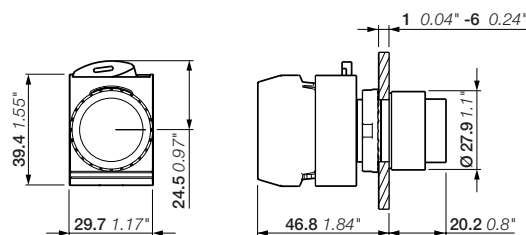
Device for standard pushbuttons, illuminated pushbuttons:
To be used only with contact blocks P9B-01VN, P9B-01VR, P9B-10VA and P9B-01FN

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



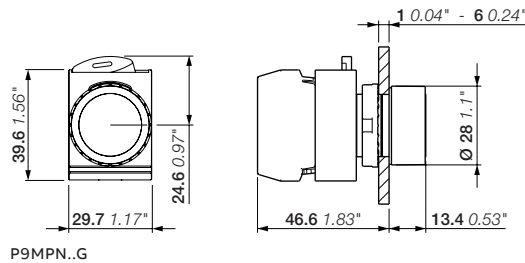
Flush pushbuttons

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

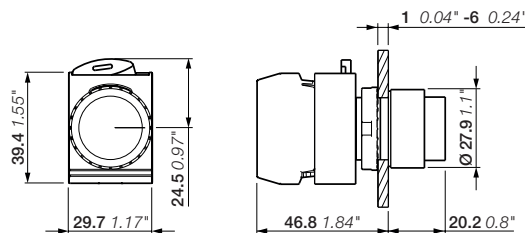
Text/symbol	Color	Type	Order code	Pkg qty	Weight (1 pce) kg
Flush pushbuttons					
START	Green	P9M-PNNG028	1SFA187149R9502	1	0.058
STOP	Red	P9M-PNNG029	1SFA187147R9501	1	0.058
	Black	P9M-PNNG028	1SFA188908R9506	1	0.058
R	Blue	P9M-PNNG037	1SFA187143R9504	1	0.058
⊕	Green	P9M-PNNG030	1SFA187146R9502	1	0.058
	White	P9M-PNNG030	1SFA188057R9505	1	0.058
	Black	P9M-PNNG030	1SFA187145R9506	1	0.058
I	Green	P9M-PNNG028	1SFA187112R9502	1	0.058
	White	P9M-PNNG028	1SFA187151R9505	1	0.058
	Black	P9M-PNNG028	1SFA187111R9506	1	0.058
O	Red	P9M-PNNG029	1SFA187110R9501	1	0.058
	Black	P9M-PNNG029	1SFA187150R9506	1	0.058
→	Green	P9M-PNNG006	1SFA187118R9502	1	0.058
	White	P9M-PNNG006	1SFA187152R9505	1	0.058
	Black	P9M-PNNG006	1SFA187117R9506	1	0.058
↔	Black	P9M-PNNG085	1SFA188886R9506	1	0.058
↔	Blue	P9M-PNNG007	1SFA188900R9504	1	0.058
⚠	Black	P9M-PNNG002	1SFA187139R9506	1	0.058

Extended pushbutton

O	Red	P9M-PNNG029	1SFA187210R9501	1	0.058
O	Black	P9M-PNNG029	1SFA187250R9506	1	0.058
⏏	Black	P9M-PNNG032	1SFA187235R9506	1	0.058



P9MPN..G

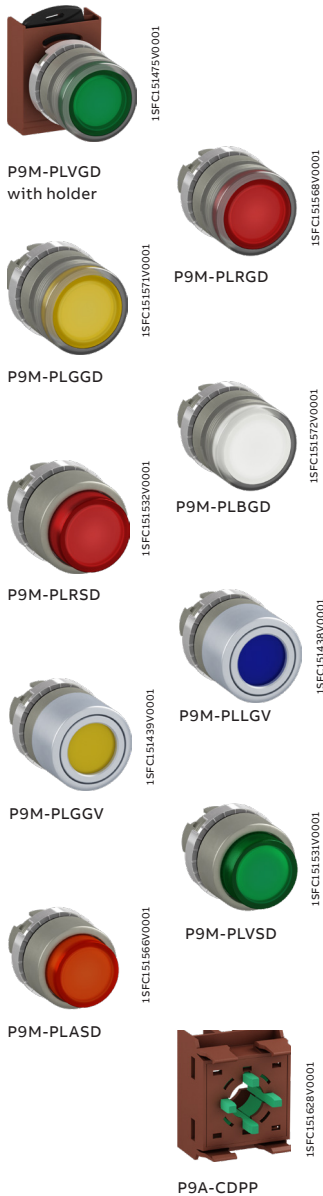


P9MPN..S

Dimensions (mm, inches)

Modular metal range

Illuminated pushbuttons momentary



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

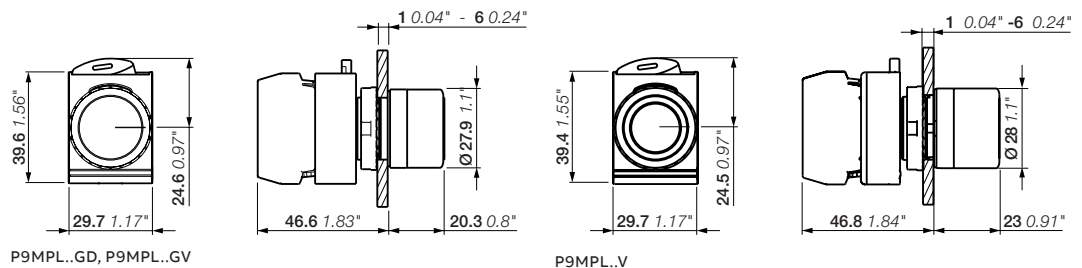
Extended pushbutton–Plastic lens type

● Red	P9M-PLRSD	1SFA184501R9101	1	0.059
● Green	P9M-PLVSD	1SFA184502R9102	1	0.059
● Yellow	P9M-PLGSD	1SFA184503R9103	1	0.059
● Blue	P9M-PLLSLSD	1SFA184506R9104	1	0.059
○ White	P9M-PLBSD	1SFA184507R9105	1	0.059
● Orange	P9M-PLASD	1SFA184505R9109	1	0.059

Maintained accessory

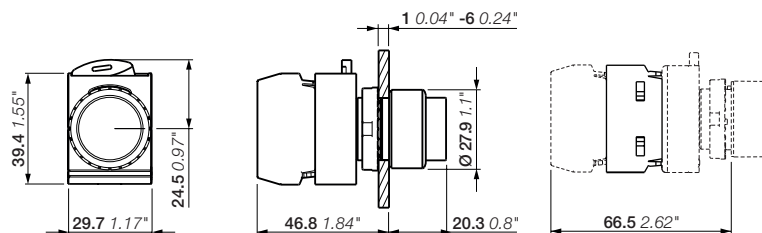
Device for standard pushbuttons, illuminated pushbuttons:
To be used only with contact blocks P9B-01VN, P9B-01VR, P9B-10VA and P9B-01FN

P9A-CDPP	1SFA187843R8000	1	0.012
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P9MPL..GD, P9MPL..GV

P9MPL..V



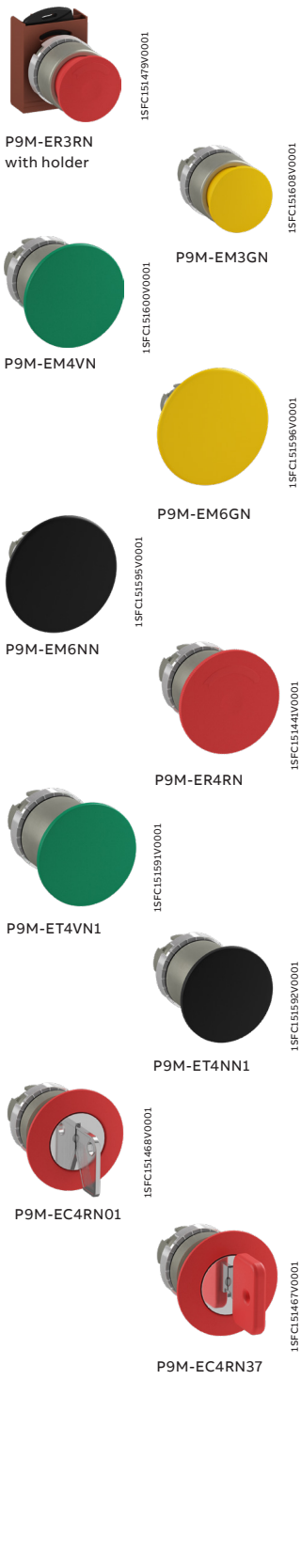
P9MPL..SD

P9A-CDPP

Dimensions (mm, inches)

Modular metal range

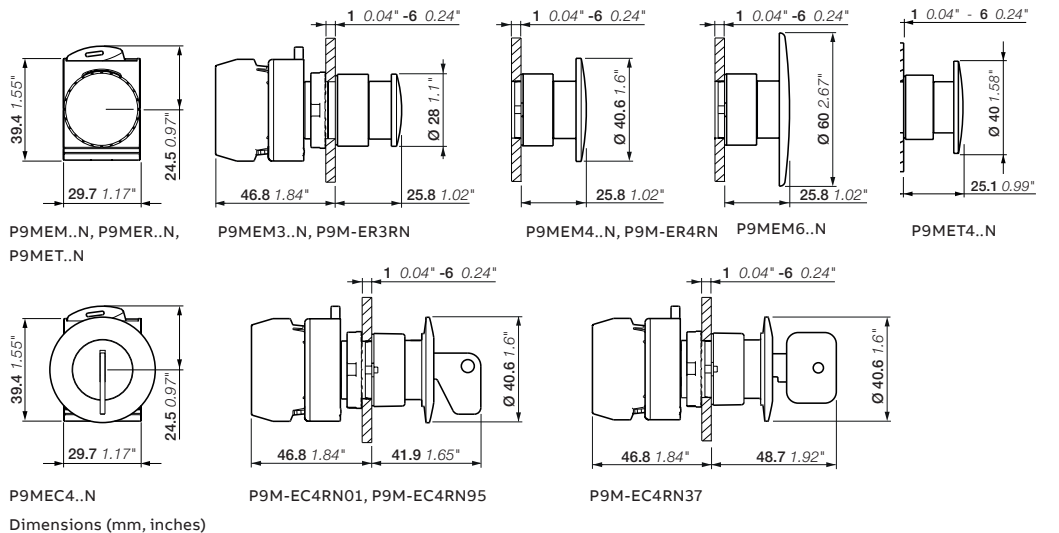
Non-illuminated mushroom pushbuttons



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 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



Modular metal range

Illuminated mushroom pushbuttons



1SFC151602V0001

P9M-EM4RL



1SFC151604V0001

P9M-EM4GL



1SFC151586V0001

P9M-ET4RL1



1SFC151587V0001

P9M-ET4LL1

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
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Momentary

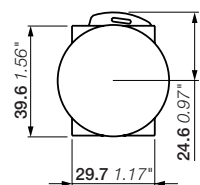
Ø 40 mm

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

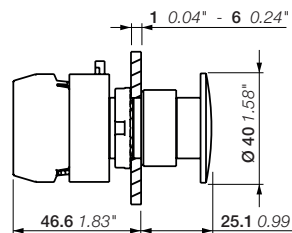
Ø 40 mm

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

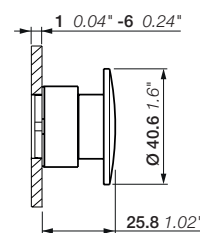


P9MEM4..L, P9MET4..L

Dimensions (mm, inches)



P9MET4..L



P9MEM4..L

Modular metal range

Pilot lights



P9M-LBD
with holder

15FC151478V0001



P9M-LRD

15FC151579V0001



P9M-LVD

15FC151578V0001



P9M-LGD

15FC151582V0001



P9M-LLD

15FC151580V0001



P9M-LID

15FC151581V0001



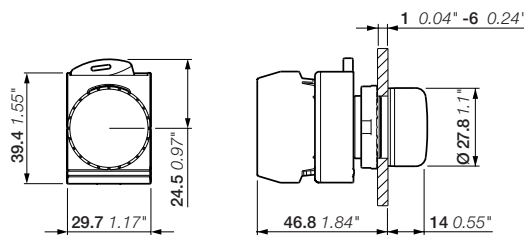
P9M-LAD

15FC151584V0001

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-SM10N
with holder

1SFC151471V0001



P9M-SM10N

1SFC151508V0001



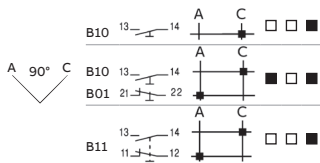
P9M-SMD0R

1SFC151506V0001

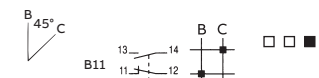
Electrical diagram

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

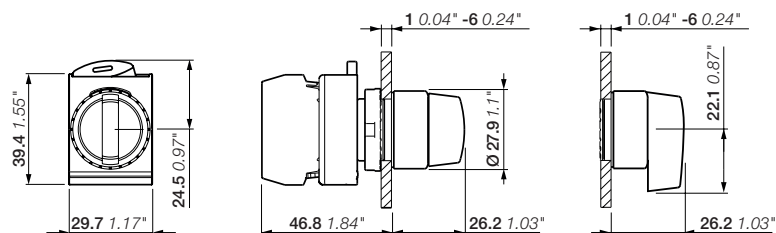
Description

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-SM10N	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



P9MMSM, P9MSV

Dimensions (mm, inches)

Modular metal range

Illuminated selector switches–2-position



1SFC151511V0001



1SFC151509V0001



1SFC151510V0001



1SFC151512V0001



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
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Short handle

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

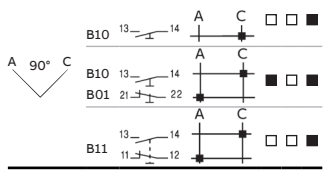
Long handle

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

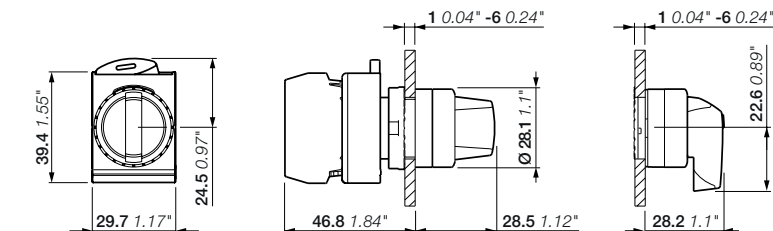
Electrical diagram

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



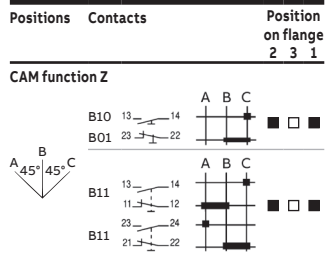
P9MSL, P9MSA
 Dimensions (mm, inches)

Modular metal range

Non-illuminated selector switches–3-position



Electrical diagram



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.

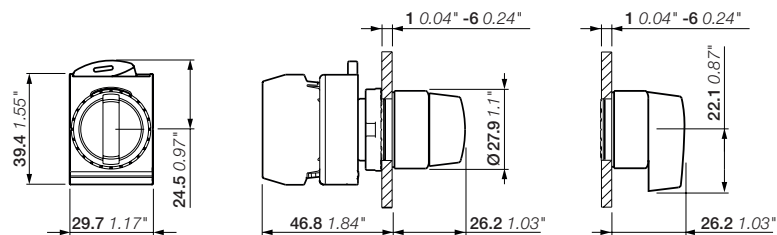
Operating principle	Color	CAM function	Type	Order code	Pkg qty	Weight (1 pce) kg
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Short handle

	● 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



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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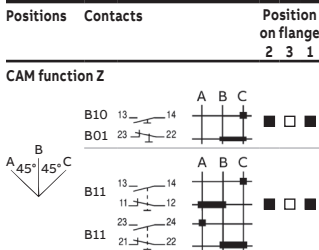
Short handle

	● 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
● 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

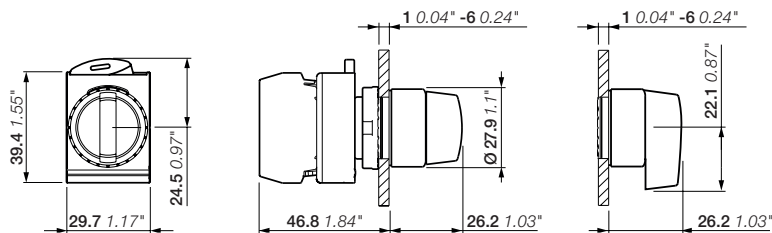
Long handle

	● 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



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



1SFC15147V0001

P9M-SMX0N
with holder



P9M-SMX0N

1SFC151508V0001

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

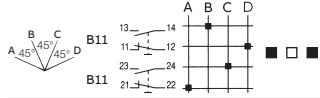
Long handle

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

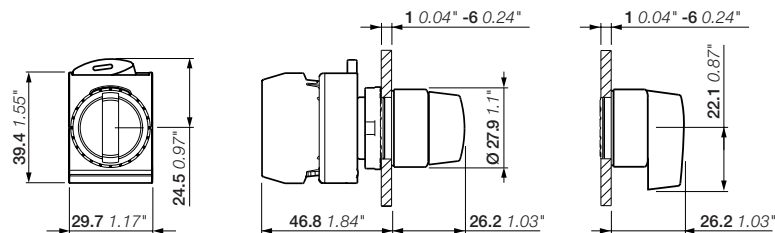
Electrical diagram

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



P9MSM, P9MSV
Dimensions (mm, inches)

Modular metal range

Non-illuminated selector switches–5-position



1SFC1511W001

P9MSMYOR

Description

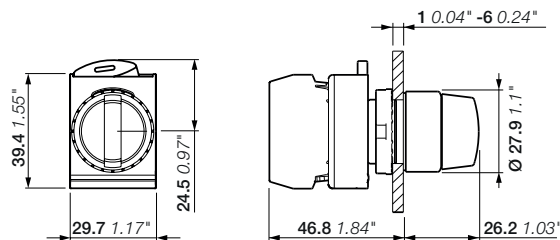
Each reference includes the satin chrome metal body and nut together with the holder.

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

Electrical diagram

Positions	Contacts	Position on flange 2 3 1
CAM function Y		
	B11	■ □ ■
	B11	■ □ ■
CAM function W		
	B11	■ □ ■
	B11	■ □ ■

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

1SFC151469V0001



P9M-SCI0C95

1SFC151470V0001

Description

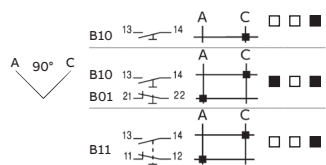
Each reference includes the satin chrome metal body and nut together with the holder, 2 keys included.

Operating principle	Key code	Key head color	CAM function	Type	Order code	Pkg qty	Weight (1 pce) kg
 Key can be removed in B only	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
 Key can be removed in C only	01	Metal	I	P9M-SCI0E01	1SFA192165R9006	1	0.120
	95	Metal	I	P9M-SCI0E95	1SFA184404R9006	1	0.120
 Key can be removed in B and C	95	Metal	I	P9M-SCI0N95	1SFA184405R9006	1	0.120
 Key can be removed in A only	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
 Key can be removed in C only	01	Metal	D	P9M-SCD0E01	1SFA192120R9006	1	0.120
	95	Metal	D	P9M-SCD0E95	1SFA184401R9006	1	0.120
 Key can be removed in A and C positions	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
 Key can be removed in B position	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
 Key can be removed in A position	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

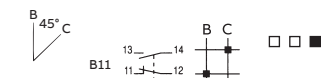
Electrical diagram

Positions	Contacts	Position on flange
		2 3 1

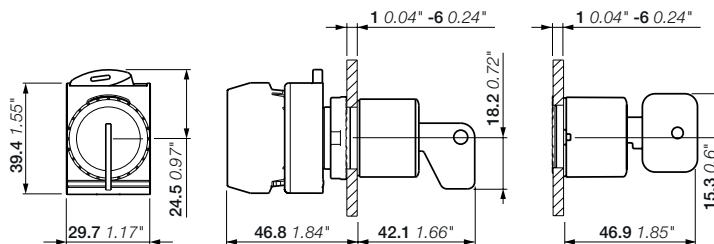
CAM function D



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



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

P9MSC..37

Modular metal range

Key-operated selector switches–3-position



1SFC151469W0001

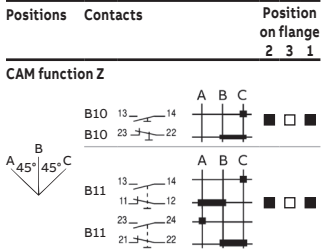
P9M-SCZ0T37 with holder



1SFC151470W0001

P9M-SCZ0T95

Electrical diagram

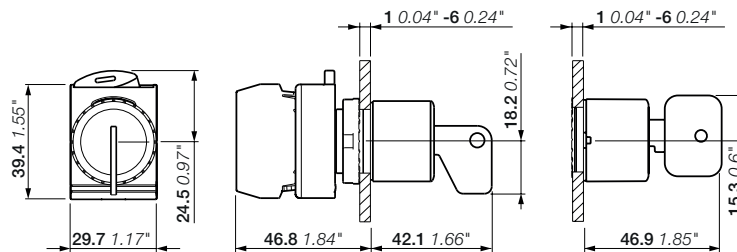


Note: dot in this diagram = contact closed.
 B10 = P9B-10VN, P9B-10FN contact blocks
 B01 = P9B-01VN, P9B-01FN contact blocks
 B11 = P9B-11VN contact blocks

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	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 all positions							
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 A and C positions							
	95	Metal	Z	P9M-SCZ0N95	1SFA184438R9006	1	0.120
Key can be removed in B and C positions							
	95	Metal	Z	P9M-SCZ1C95	1SFA184449R9006	1	0.120
	Key can be removed in position B only						
	95	Metal	Z	P9M-SCZ1N95	1SFA184451R9006	1	0.120
	Key can be removed in A and C positions						



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

P9MSC..37

Modular metal range

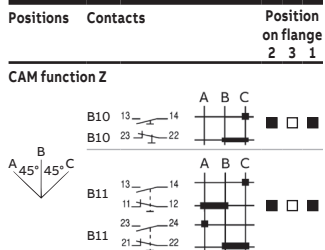
Key-operated selector switches–3-position



1SFC151470V0001

P9M-SCZ3C01 with holder

Electrical diagram

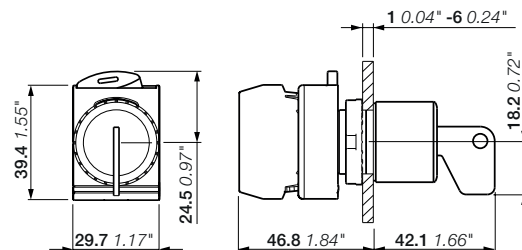


Note: dot in this diagram = contact closed.
 B10 = P9B-10VN, P9B-10FN contact blocks
 B01 = P9B-01VN, P9B-01FN contact blocks
 B11 = P9B-11VN contact blocks

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
	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
	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



1SFC151470V0001

P9M-SCX0A95 with holder

Description

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

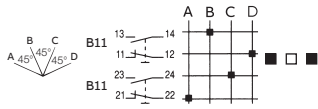
Operating principle	Key code	Key head color	CAM function	Type	Order code	Pkg qty	Weight (1 pce) kg
	95	Metal	X	P9M-SCX0A95	1SFA184468R9006	1	0.120
	Key can be removed in A position						
Key can be removed in all positions	01	Metal	X	P9M-SCX0Z01	1SFA193335R9006	1	0.120
	95	Metal	X	P9M-SCX0Z95	1SFA184482R9006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

1SFC151516V0001

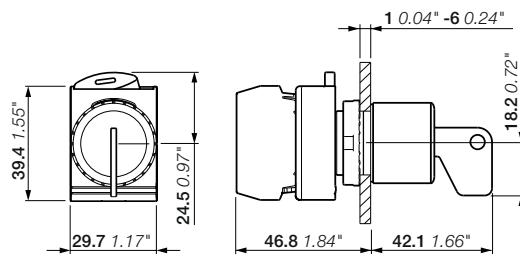
Electrical diagram

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)

Modular metal range

Joysticks–2-position and 4-position



1SFC154770001

P9M-MN2A with holder



1SFC154760001

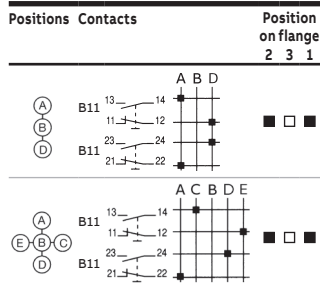
P9M-MB2FG

Description

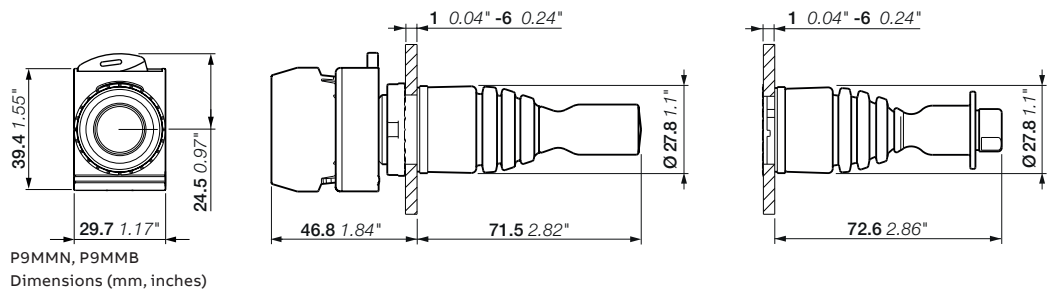
Each reference includes the satin chrome metal body and nut together with the holder.

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



1SFCL151435V0001

P9A-RSCMN



1SFCL151614V0001

P9A-RSCMB



1SFCL151434V0001

P9A-RSGMN



1SFCL151613V0001

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



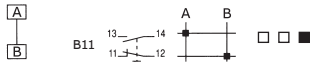
P9M-CB
with holder

1SFC151480V0001

Contacts actuated

Positions	Contacts	Position on flange
		2 3 1

CAM function D



CAM function B

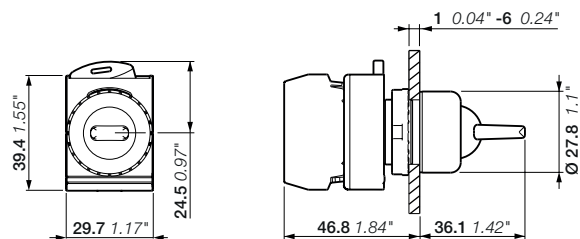


B11 = P9B-11VN contact blocks

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



1SFC151474V0001

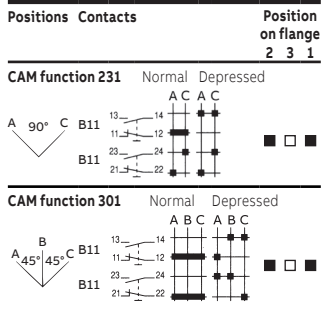
P9M-PS22G
with holder

Description

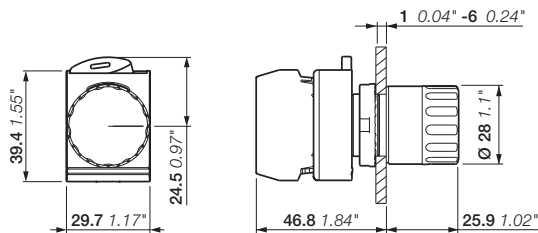
Each reference includes the satin chrome metal body and nut together with the holder.

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



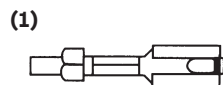
1SFC151611V0001

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

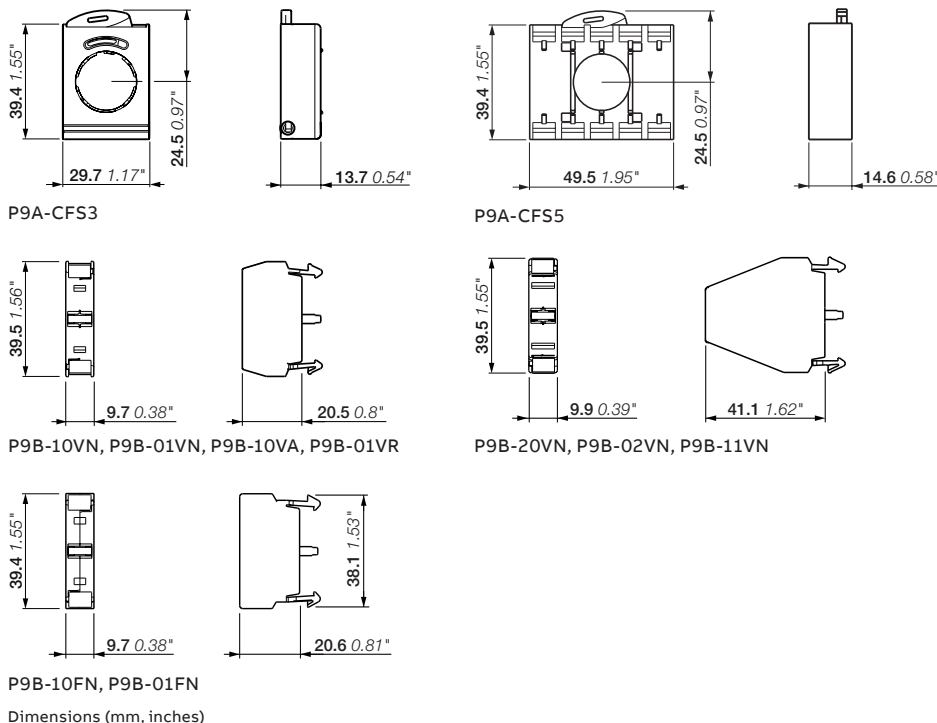
Single contact blocks with N.O. early make contacts and N.C. late break contacts

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	Contacts	Type	Order code	Pkg qty	Weight (1 pce)
	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



Modular metal range

Power supplies



P9P-DNV0

1SFCL15150V0001



P9P-DTV0

1SFCL1500V0001

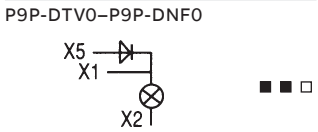
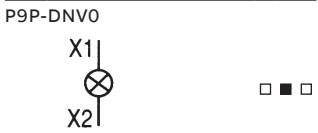


P9P-DNF0

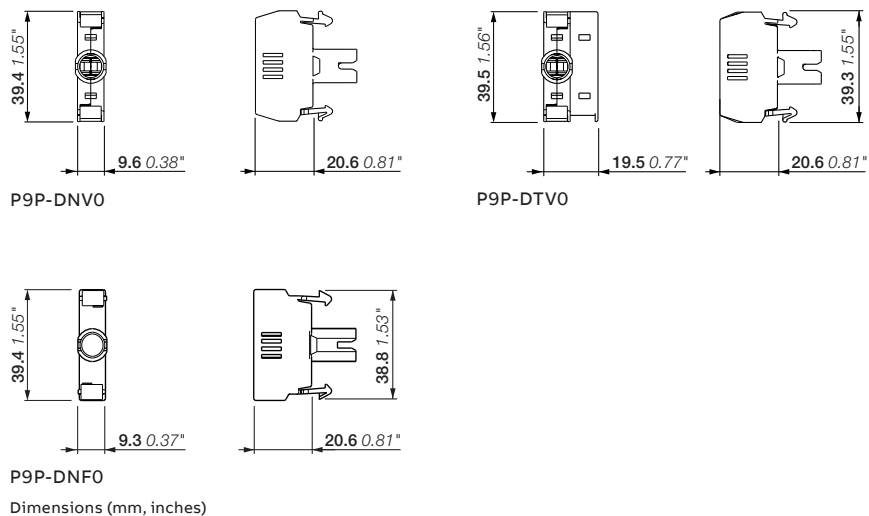
1SFCL151502V0001

Contacts actuated

Power supplies	Position on flange
P9P-DNV0	2 3 1



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

1SFL151630V0001

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

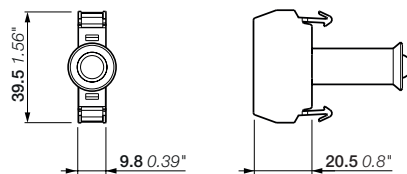


1SFA197000001

P9P-LNVDR

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



P9PL

Dimensions (mm, inches)

Modular metal range

Accessories



P9A-CRCL

1SFCL151463V0001



P9A-CDPP

1SFCL151628V0001



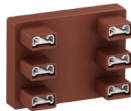
P9A-CWAF

1SFCL151625V0001



P9A-RAM32

1SFCL151464V0001



P9A-CA6

1SFCL151462V0001



080CP-R

1SFCL151460V0001




080CP-N

1SFCL151461V0001



P9A-RCST

1SFCL151465V0001

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

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

Tools

Locking ring wrench

P9A-CWAF

1SFA187845R8000

1

0.037

Adapter ring

Adapter ring for 30 mm hole to mount P9 22 mm in a 30 mm hole

P9A-RAM32

1SFA188801R8000

5

0.006

Terminal adapter

PCB adapter for faston contacts

P9A-CA6





1SFA188804R8000

5


0.051

Rubber protective caps (IP66) for standard pushbuttons

Flush pushbuttons

Description	Type	Order code	Pkg qty	Weight (1 pce)
 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

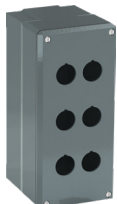
 Clear	P9A-RCST	1SFA187490R8000	5	0.004
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Modular metal range

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
 Solid/stranded	2 x	0.75...2.5 mm ²
 Flexible	1 x	0.75...2.5 mm ²
 Flexible	2 x	0.75...2.5 mm ²
 Flexible with non insulated ferrule	1 x	0.75...2.5 mm ²
 Flexible with insulated ferrule	2 x	0.75...2.5 mm ²
 Lugs	L <	7.0 mm
	I >	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
Utilization category AC 15,	at: 48 V	10 A
	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
Utilization category DC 13,	at: 48 V	1.4 A
	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		
Momentary mushroom pushbuttons	Max 6	Max 8
Standard selector switches		
Key selector switches	Max 4	Max 8
Joysticks		
Selector pushbuttons	Max 4	–
Toggle switches		
Maintained mushroom pushbuttons	Max 4	–
Illuminated pushbuttons		
Illuminated momentary mushroom pushbuttons	Max 4	Max 4
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 operations
Key pushbuttons	
Toggle switches	
Illuminated selector switches	
Maintained accessory	
Standard selector switches	1 million operations
Key selector switches	
Illuminated pushbuttons	
Selector pushbuttons	
Standard pushbuttons	3 million operations
Mushroom head pushbuttons	

Performances of the contacts

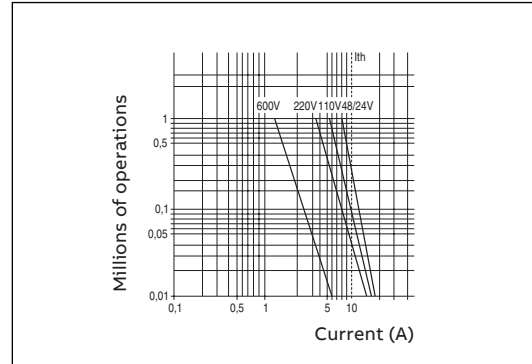
- Slow acting
- Self-cleaning sliding
- NC forced breaking
- Double movable bridge
- Four switching points
- Double break

Identification of the terminals

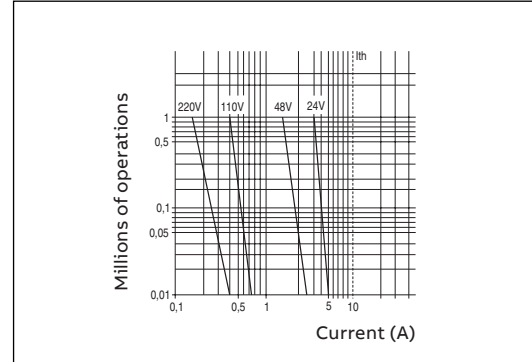
According EN 50013

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.

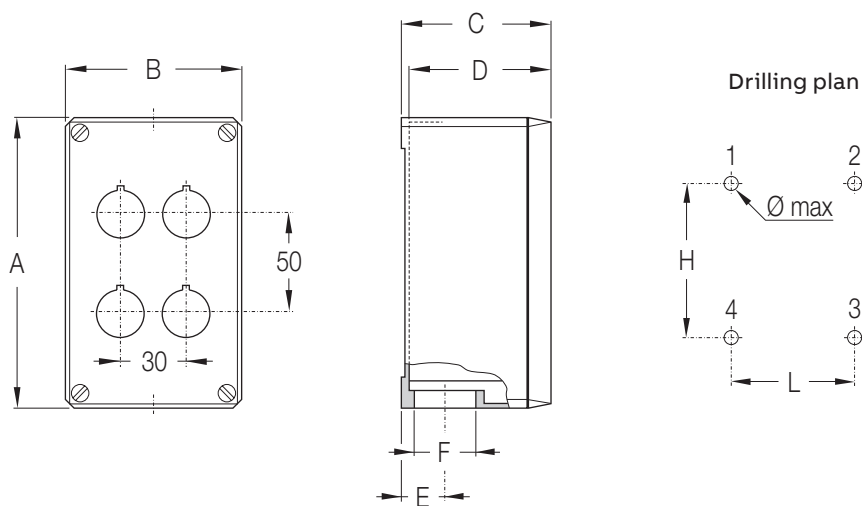
The standard operators are supplied with a three position flange with a capacity of 3 units of 10 mm or 1 of 10 mm and 1 of 20 mm or 1 of 30 mm.

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



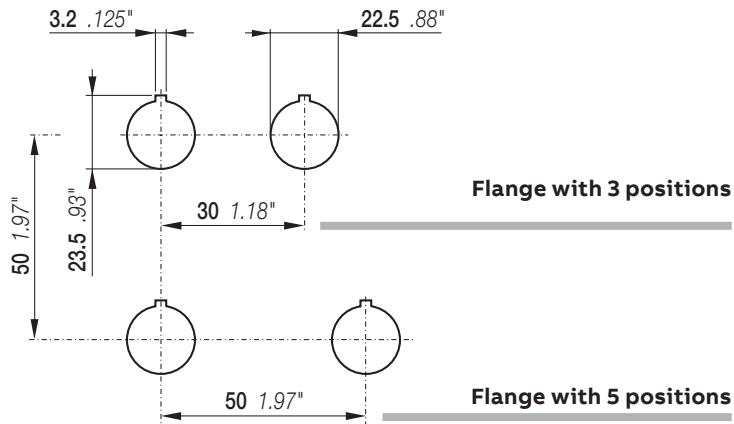
Size type	Holes Ø 22		Dimensions										Drilling plan			
	Vertic.	Horizont.	A		B		C		D		E		F	H x L x Ø max		Position of the holes
			mm	in	mm	in	mm	in	mm	in	mm	in	mm	mm	in	
1	1	-	87	3.43	87	3.43	75	2.95	72	2.83	21.5	0.85	PG 21	74x55x4	2.91x2.17x0.16	1-3
1M	1	-	87	3.43	87	3.43	100	3.94	97	3.82	21.5	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

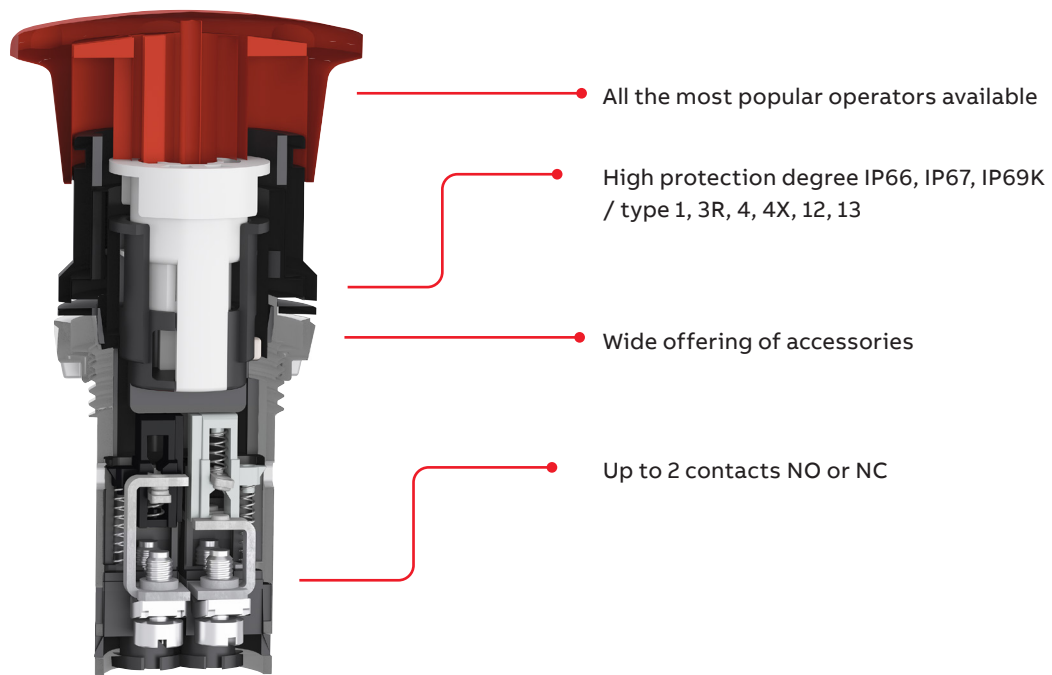
110 Accessories

112 Technical data

118 Drilling plan

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.

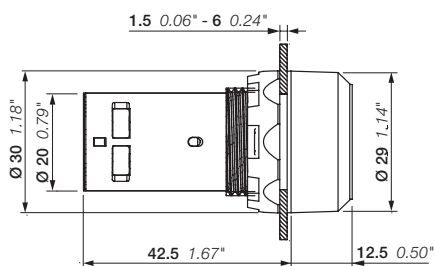


Compact range

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)

04

Compact range

Non-illuminated flush pushbuttons–Maintained



1SFC15176V0001

CP2-10R-10



1SFC151178V0001

CP2-10G-10



1SFC151184V0001

CP2-10Y-10



1SFC151183V0001

CP2-30L-10



1SFC151174V0001

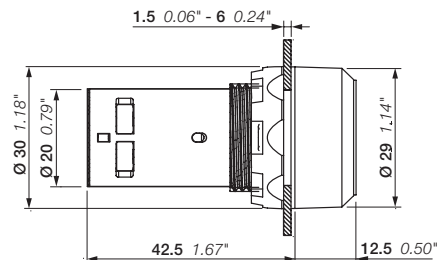
CP2-10W-10



1SFC151181V0001

CP2-30B-10

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	0.018
		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



CP2

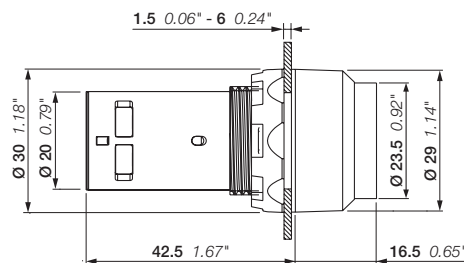
Dimensions (mm, inches)

Compact range

Non-illuminated extended pushbuttons–Momentary



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



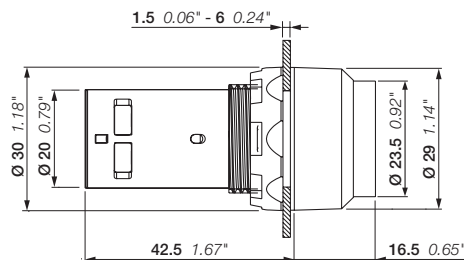
CP3
Dimensions (mm, inches)

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
		1 0	CP4-10G-10	1SFA619103R1012	10	0.019
		1 1	CP4-10G-11	1SFA619103R1072	10	0.022
● Yellow	Chrome metal	2 0	CP4-10G-20	1SFA619103R1022	10	0.022
		1 0	CP4-30G-10	1SFA619103R3012	10	0.033
		2 0	CP4-30G-20	1SFA619103R3022	10	0.036
● Blue	Black plastic	1 0	CP4-10Y-10	1SFA619103R1013	10	0.019
		1 1	CP4-10Y-11	1SFA619103R1073	10	0.022
○ White	Black plastic	1 0	CP4-10L-10	1SFA619103R1014	10	0.019
		1 1	CP4-10L-11	1SFA619103R1074	10	0.022
● Black	Black plastic	1 0	CP4-10W-10	1SFA619103R1015	10	0.019
		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

1SFCL5115V0001



CP1-11G-10

1SFCL5118R0001



CP1-31Y-10

1SFCL5118R0001



CP1-11L-10

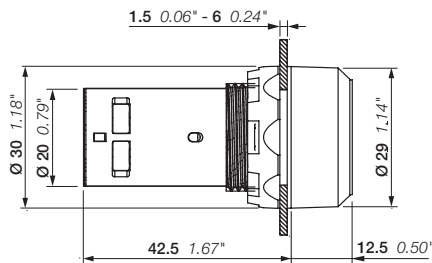
1SFCL5149V0001



CP1-31C-10

1SFCL5117V0001

Operator	Bezel	Contacts	Type	Order code	Pkg qty	Weight (1 pce)
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
● Green	Chrome metal	1 0	CP1-31R-10	1SFA619100R3111	10	0.039
		0 1	CP1-31R-01	1SFA619100R3141	10	0.039
● Yellow	Black plastic	1 0	CP1-11G-10	1SFA619100R1112	10	0.025
		1 0	CP1-31G-10	1SFA619100R3112	10	0.039
● Blue	Black plastic	1 0	CP1-11Y-10	1SFA619100R1113	10	0.025
		1 0	CP1-31Y-10	1SFA619100R3113	10	0.039
○ Clear	Black plastic	1 0	CP1-11L-10	1SFA619100R1114	10	0.025
		1 0	CP1-31L-10	1SFA619100R3114	10	0.039
○ Clear	Chrome metal	0 1	CP1-31L-01	1SFA619100R3144	10	0.039
		1 0	CP1-11C-10	1SFA619100R1118	10	0.025
		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



CP2-11G-10

1SFCE151188V0001



CP2-11Y-10

1SFCE151190V0001



CP1-11L-10

1SFCE151149V0001



CP2-11C-10

1SFCE151152V0001

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

Rated voltage 24 V AC / DC

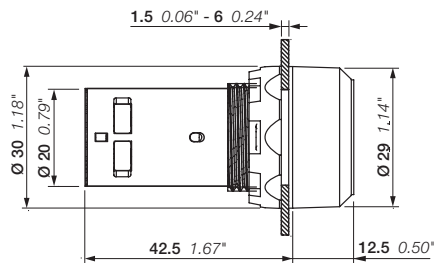
● Red	Black plastic	1 0	CP2-11R-10	1SFA619101R1111	10	0.025
		0 1	CP2-11R-01	1SFA619101R1141	10	0.025
● Green	Black plastic	1 0	CP2-11G-10	1SFA619101R1112	10	0.025
● Yellow	Black plastic	1 0	CP2-11Y-10	1SFA619101R1113	10	0.025
● Blue	Black plastic	1 0	CP2-11L-10	1SFA619101R1114	10	0.025
○ Clear	Black 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

1SFCL51210V0001



CP3-11Y-10

1SFCL51208V0001

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

Rated voltage 24 V AC / DC

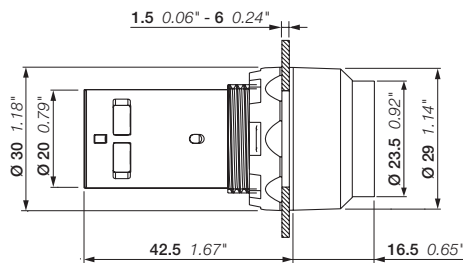
● Red	Black plastic	1 0	CP3-11R-10	1SFA619102R1111	10	0.025
		0 1	CP3-11R-01	1SFA619102R1141	10	0.025
● Green	Black plastic	1 0	CP3-11G-10	1SFA619102R1112	10	0.025
● Yellow	Black plastic	1 0	CP3-11Y-10	1SFA619102R1113	10	0.025
● Blue	Black plastic	1 0	CP3-11L-10	1SFA619102R1114	10	0.025
○ Clear	Black 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



CP4-11R-10

1SFCL51210V0001



CP4-11G-10

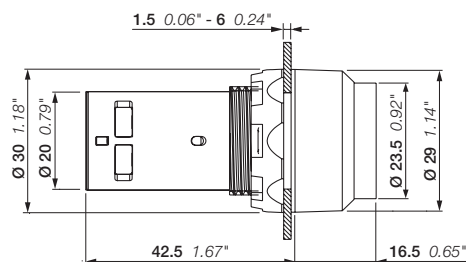
1SFCL51213V0001



CP4-11Y-10

1SFCL51208V0001

Operator	Bezel	Contacts	Type	Order code	Pkg qty	Weight (1 pce)
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



CP4

Dimensions (mm, inches)

Compact range

Non-illuminated mushroom pushbuttons–Momentary



1SFC151258V0001

CPM3-10R-11



1SFC151357V0001

CPM3-10G-11



1SFC151259V0001

CPM3-10Y-11




1SFC151260V0001

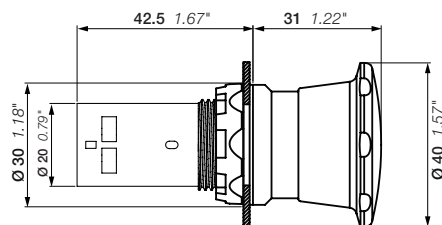
CPM3-10L-11



1SFC151388V0001

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



CE3T-10R-01

1SFC151616V0001



CE3K1-10R-01

1SFC151616V0001



CE4T-10R-01

1SFC151616V0001



CE4P-10R-01

1SFC151616V0001



CE4K1-10R-02

1SFC151616V0001

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

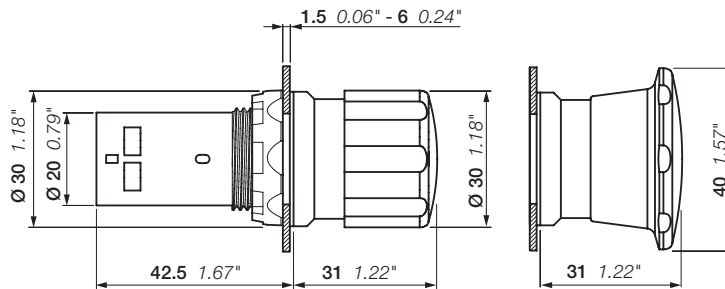


Ø 30 mm

● 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

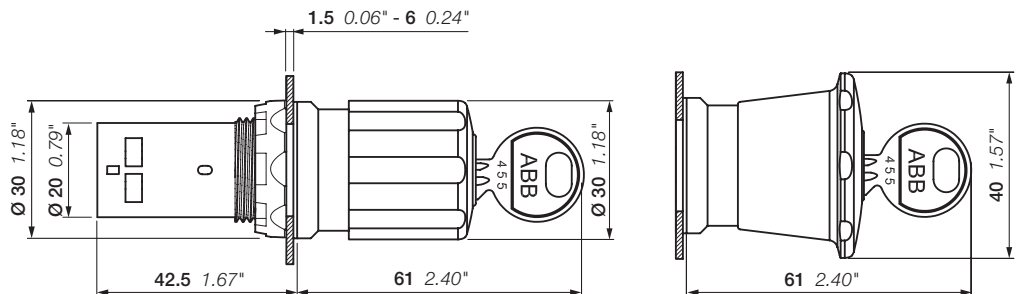
Ø 40 mm

● 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



1SFC151167V0001

CE3T-10B-11



1SFC151168V0001

CE3P-10B-11



1SFC151170V0001

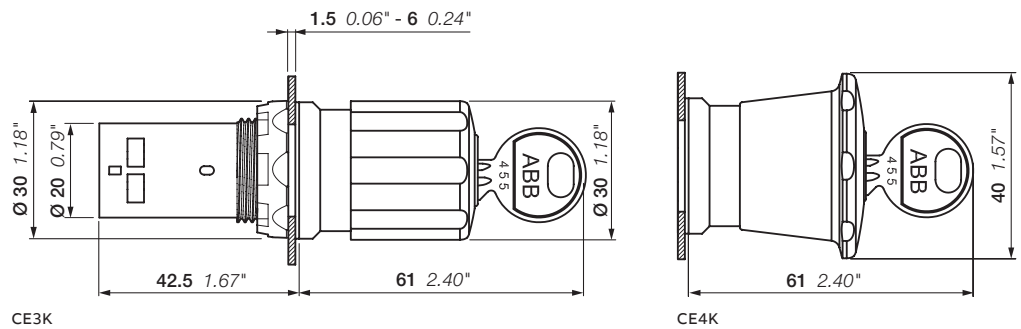
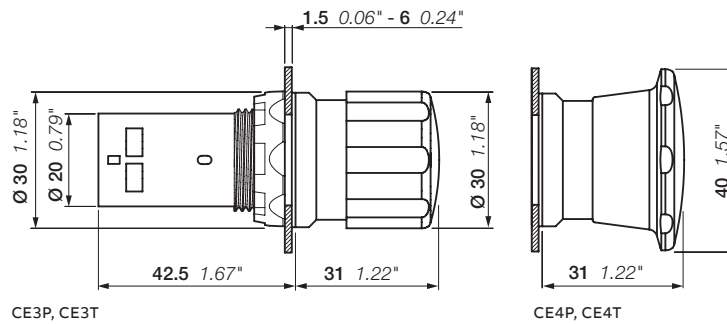
CE4T-10B-11



1SFC151171V0001

CE4P-10B-11

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
		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
		1 1	CE4K1-10B-11	1SFA619552R1076	1	0.064



Dimensions (mm, inches)

Compact range

Heavy duty pushbuttons



CP6-10R-11

1SFCL51023V0001



CP6-10G-11

1SFCL51024V0001




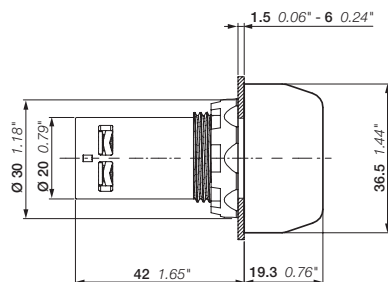
CP6-10B-11

1SFCL51023V0001

Description

Silicone rubber cap.

Color	Contacts	Type	Order code	Pkg qty	Weight (1 pce)
					kg
● 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	1 1	CP6-10G-11	1SFA619105R1072	10	0.031
	2 0	CP6-10G-20	1SFA619105R1022	10	0.031
● 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

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 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

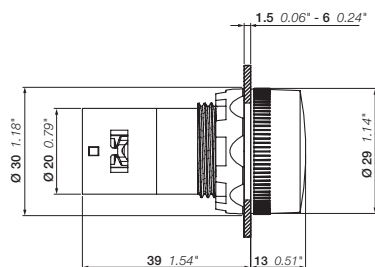
Voltage 110 ... 130 V AC

● 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



1SFC151338V0001

CL2-502R



1SFC151339V0001

CL2-506G



1SFC151340V0001

CL2-508Y



1SFC151341V0001

CL2-506L



1SFC151342V0001

CL2-506C

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)

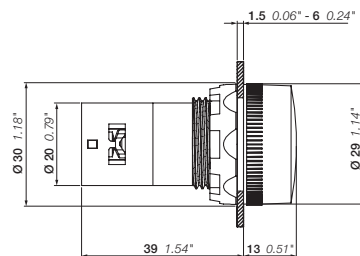
● Red	17	60	625	75	CL2-623R	1SFA619403R6231	10	0.016
● Green	17	80	520	70	CL2-623G	1SFA619403R6232	10	0.016
● Yellow	17	70	590	50	CL2-623Y	1SFA619403R6233	10	0.016
● Blue	17	80	470	5	CL2-623L	1SFA619403R6234	10	0.016
○ Clear	17	80	(1)	155	CL2-623C	1SFA619403R6238	10	0.016

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



CL-100R

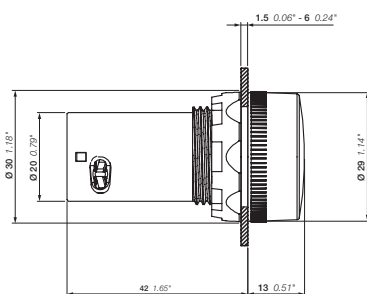


CL-100L

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

1SFCL15163R00001

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



15FC151255V0001

C2SS1-10B-10



15FC15359W0001

C2SS3-30B-10

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	-

Description

Compact selector switches are delivered in black color.

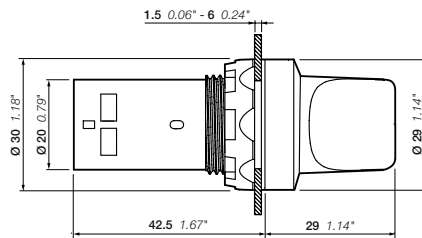
Operating principle	Bezel	Contacts	Type	Order code	Pkg qty	Weight (1 pce)
						kg

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

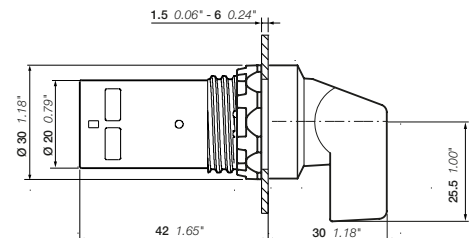
Long handle

	Chrome metal	1 0	C2SS5-30B-10	1SFA619204R3016	10	0.029
		1 1	C2SS5-30B-11	1SFA619204R3076	10	0.032



C2SS, short handle

Dimensions (mm, inches)



C2SS, long handle

Compact range

Non-illuminated selector switches–3-position



C3SS1-10B-11

1SFC151255/0001



C3SS2-30B-20

1SFC151359/0001

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

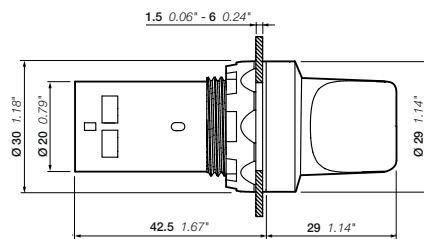
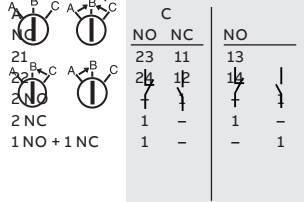
	Black plastic	1 1	C3SS1-10B-11	1SFA619210R1076	10	0.024
	Chrome metal	2 0	C3SS1-10B-20	1SFA619210R1026	10	0.024
	Black plastic	1 1	C3SS2-10B-11	1SFA619211R1076	10	0.024
	Chrome metal	2 0	C3SS2-10B-20	1SFA619211R1026	10	0.024
	Black plastic	1 1	C3SS2-30B-11	1SFA619211R3076	10	0.032
	Chrome metal	2 0	C3SS2-30B-20	1SFA619211R3026	10	0.032
	Black plastic	1 1	C3SS3-10B-11	1SFA619212R1076	10	0.024
	Chrome metal	2 0	C3SS3-10B-20	1SFA619212R1026	10	0.024
	Black plastic	1 1	C3SS3-30B-11	1SFA619212R3076	10	0.032
	Chrome metal	2 0	C3SS3-30B-20	1SFA619212R3026	10	0.032
	Black plastic	1 1	C3SS7-10B-11	1SFA619216R1076	10	0.024
	Chrome metal	2 0	C3SS7-10B-20	1SFA619216R1026	10	0.024
	Black plastic	1 1	C3SS7-30B-11	1SFA619216R3076	10	0.032
	Chrome metal	2 0	C3SS7-30B-20	1SFA619216R3026	10	0.032

Long handle

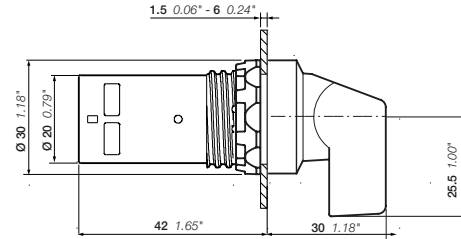
	Black plastic	1 1	C3SS4-10B-11	1SFA619213R1076	10	0.024
	Chrome metal	2 0	C3SS4-10B-20	1SFA619213R1026	10	0.024
	Black plastic	1 1	C3SS5-10B-11	1SFA619214R1076	10	0.024
	Chrome metal	2 0	C3SS5-10B-20	1SFA619214R1026	10	0.024
	Black plastic	1 1	C3SS5-30B-11	1SFA619214R3076	10	0.032
	Chrome metal	2 0	C3SS5-30B-20	1SFA619214R3026	10	0.032

Contacts actuated

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



C3SS, short handle
Dimensions (mm, inches)



C3SS, long handle

Compact range

Buzzers



1SFC15157W0001

CB1-600G



1SFC15159W0001

CB1-610R



1SFC15158W0001

CB1-610Y



1SFC15160W0001

CB1-620B

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

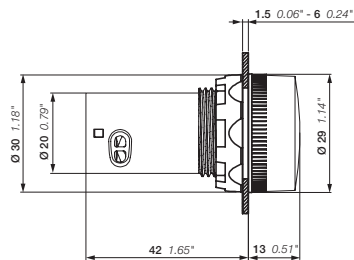
● Black	Continuous	40	-	CB1-621B	1SFA619600R6216	10	0.021
	Pulsation	48	-	CB1-631B	1SFA619600R6316	10	0.021

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

1SFC151283F0001



MA1-8052

1SFC151397V0001



KA1-8010

1SFC151279F0001



KA1-8022/KA1-8021

1SFC151212V0001



SK616016-2

1SFC151487F0001



MA1-8153

1SFC151391V0001



CA1-8054

1SFC151287V0001

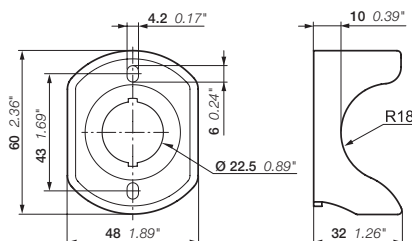


CA1-8053

1SFC151286V0001

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



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

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

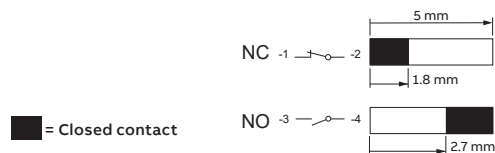
Pushbuttons, selector switches, heavy duty	500 000 operations
Emergency stop pushbutton	50 000 operations

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 R300
	AC 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 Min.	Max.	lx Min.	Max.	lx Min.	Max.			
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 V	Main wavelength Nm	Color temperature K
	mA Min.	Max.	lx Min.	Max.			
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 V	Main wavelength Nm	Color temperature K
	mA Min.	Max.	lx Min.	Max.			
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

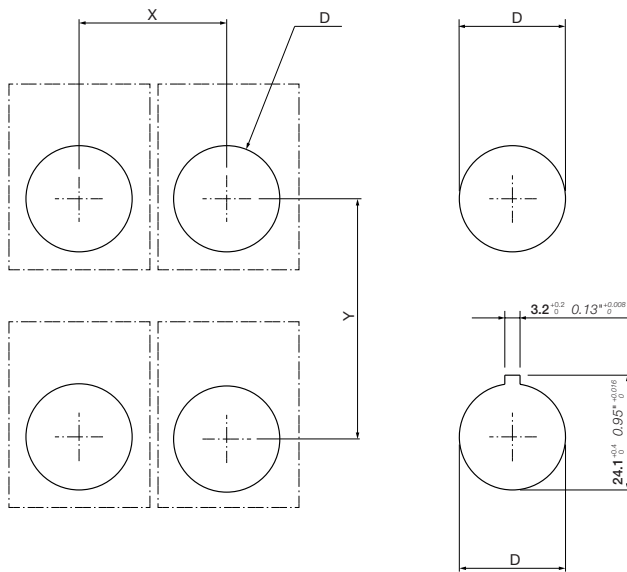
Buzzer CB

Color	Light and sound output	Current			Illuminance		Sound press level (dB/10cm)
		mA Min.	Max.	lx Min.	Max.		
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

1SFCL151270V0001



MEP2-0

1SFCL151272V0001



MEP3-0

1SFCL151274V0001



MA1-8053

1SFCL1384V0001



MA1-8128

1SFCL131383V0001



CEP1-0

1SFCL151284V0001



CEPY1-0

1SFCL151285V0001



CA1-8054

1SFCL151287V0001



CA1-8053

1SFCL151286V0001

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



MA1-8129

1SFC151395V0001



MA1-8130

1SFC151394V0001



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.

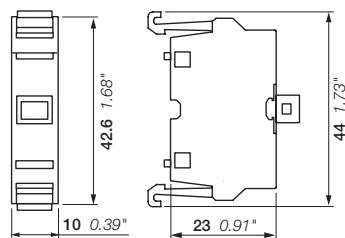
Spacer	-	SK615516-1	10	0.002
Spacer for modular MPMP/T	KA1-8045	1SFA616920R8045	10	0.004
Spacer with rotation stop	MA1-8160	1SFA611920R8160	10	0.003

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

1SFA611416V0001

Description

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

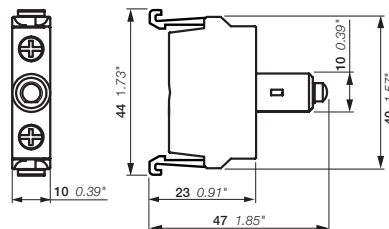
Color	Rated current mA	Wave-length nm	Lumi-nance mcd	Type	Order code	Pkg qty	Weight (1 pce) kg
Rated voltage 230 V AC							
● Red	9.5	620	250	MLBL-07BR	1SFA611621R2071	10	0.012
● Green	9.4	520	1500	MLBL-07BG	1SFA611621R2072	10	0.012
● Yellow	9.5	588	300	MLBL-07BY	1SFA611621R2073	10	0.012
● Blue	8.2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



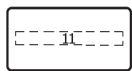
MA6-1060

1SFC15140-0V00001

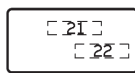


MA6-1061

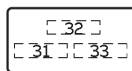
1SFC151380V00001



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

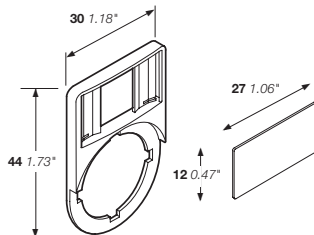
O	MA6-1062	1SFA611930R1062	10	0.001
I	MA6-1063	1SFA611930R1063	10	0.001
II	MA6-1064	1SFA611930R1064	10	0.001
→	MA6-1065	1SFA611930R1065	10	0.001
→	MA6-1130	1SFA611930R1130	10	0.001
→ →	MA6-1131	1SFA611930R1131	10	0.001
Close	MA6-1132	1SFA611930R1132	10	0.001
Open	MA6-1133	1SFA611930R1133	10	0.001
On	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



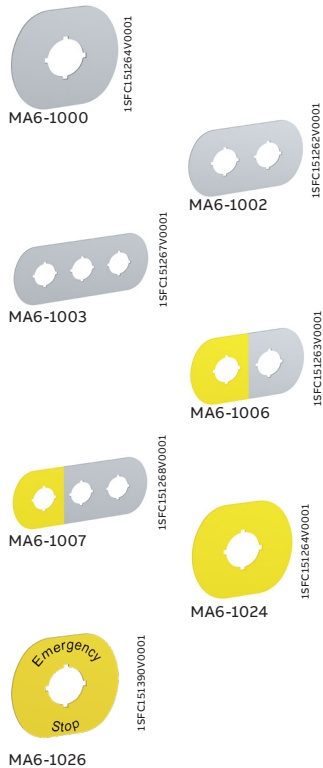
MA6-1060

MA6-1061

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
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2-position selector switch

Short handle, non-illuminated

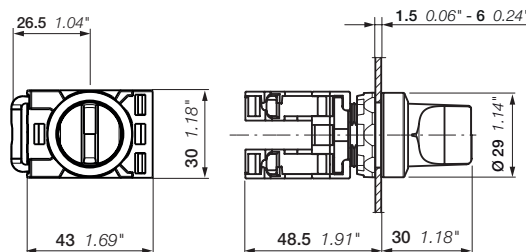
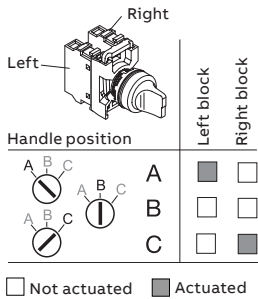
	● Black	M2SSV1-10B	1SFA611220R1006	10	0.015
	● Black	M2SSV2-10B	1SFA611221R1006	10	0.015
	● Black	M2SSV3-10B	1SFA611222R1006	10	0.015

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

1SFC151415V0001



CEPY1-2001

1SFC151387V0001



MEP2-1001

1SFC151273V0001

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

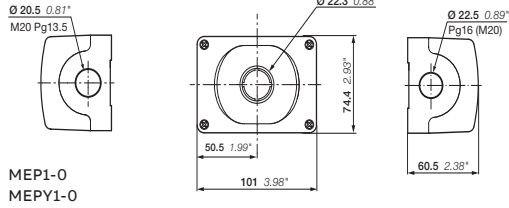
● Green	● Red		MEP2-1001	1SFA611812R1001	1	0.220
1 NO	1 NC					
I	O					

Enclosures

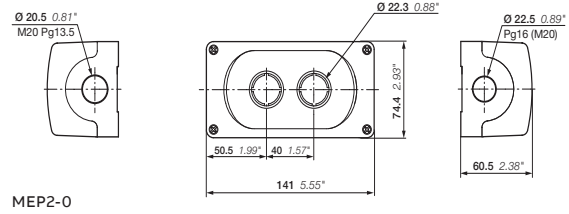
Dimensions

MEP plastic enclosures

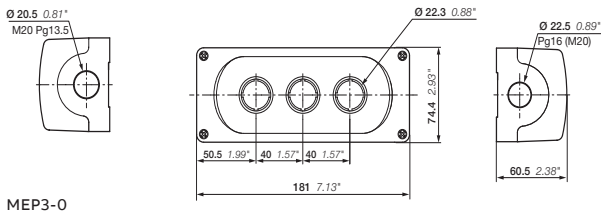
1-seat



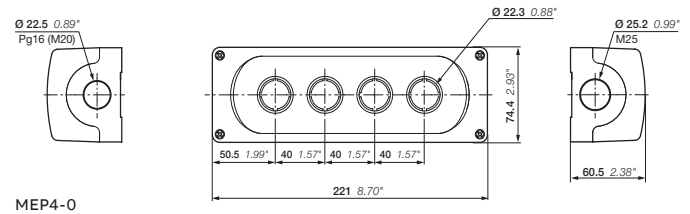
2 seats



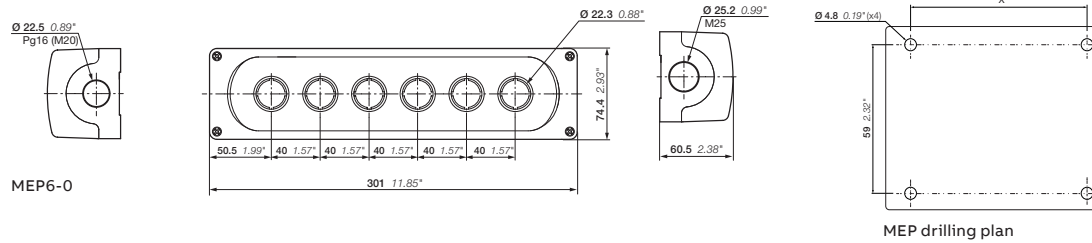
3-seats



4-seats



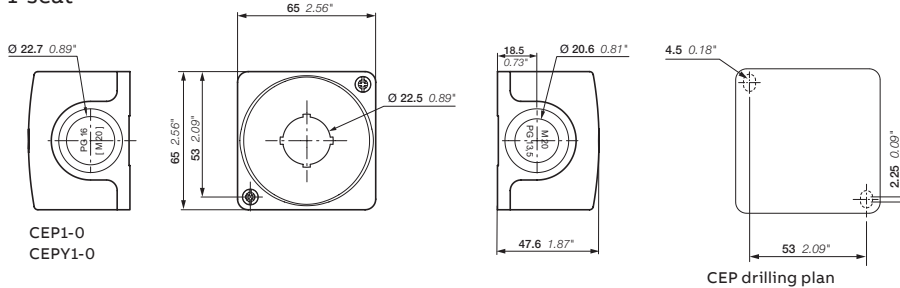
6-seats



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

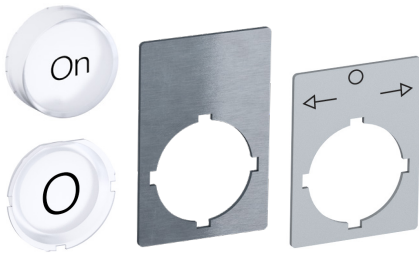
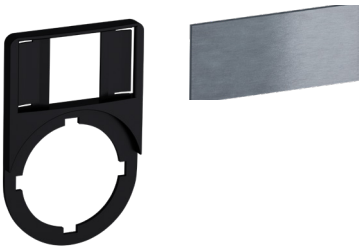
Ordering details

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 text caps to mount under the lens of the pilot device.



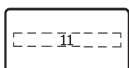
Legend plates and text caps

Legend plate holder with inserts

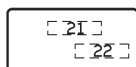


KA1-8120

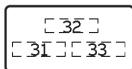
1SFC151399Y0001



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
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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

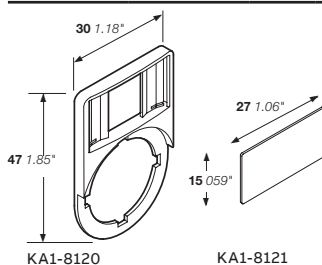
O	MA6-1032	1SFA611930R1032	10	0.001
I	MA6-1033	1SFA611930R1033	10	0.001
→	MA6-1034	1SFA611930R1034	10	0.001
→ →	MA6-1035	1SFA611930R1035	10	0.001
Close	MA6-1036	1SFA611930R1036	10	0.001
Open	MA6-1037	1SFA611930R1037	10	0.001
On	MA6-1038	1SFA611930R1038	10	0.001
Off	MA6-1039	1SFA611930R1039	10	0.001
Fast	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



Legend plates and text caps

Legend plates for emergency stop



1SFA616915R1005

1SFC15.386V0001



SK615546-2

1SFC15.386V0001

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

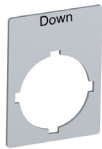
Legend plates and text caps

Legend plates for panels



1SFA611940R0001

MA16-1001



SK615562-14

CBK-NPE2



SK615550-61

CBK-NPE90



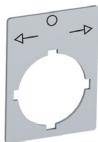
SK615552-25

CBK-NPE13



SK615550-81

CBK-NPE99



SK615562-82

SK615562-82

Description

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

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

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

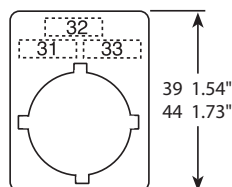
Legend plate height 39 mm

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			
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

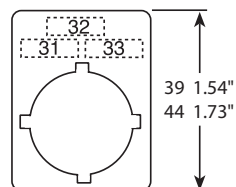
Legend plate height 39 mm

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

91BA186938



KTC3-1020

15FC151284V0001

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

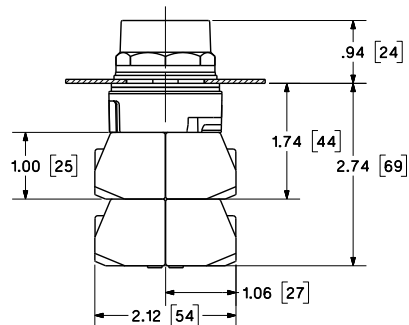


A3PBF1-600R-10

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

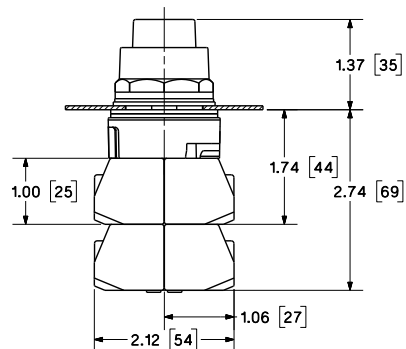


A3PBE1-600R-91

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

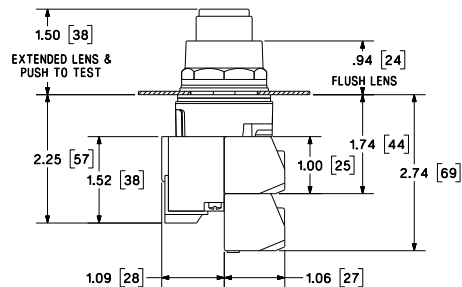
Description

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

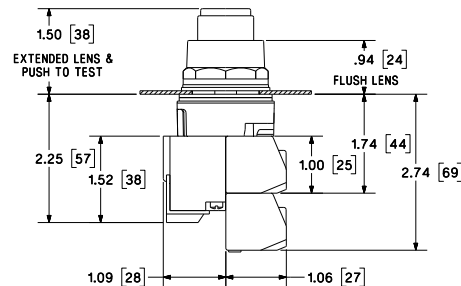
Description

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=15QC-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.

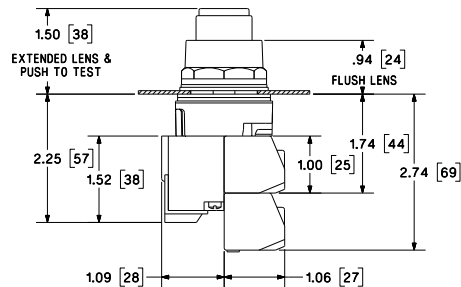
Color	Voltage	Contacts	Catalog number	Order code	Pkg qty
Momentary – full voltage					
● Green	6-8 V AC/DC	1 1	A3PLE1-6LBG-91	1SQA010812R0001	1
● Blue	6-8 V AC/DC	1 1	A3PLE1-6LBL-91	1SQA010813R0001	1
● Amber	6-8 V AC/DC	1 1	A3PLE1-6LBM-91	1SQA010814R0001	1
● Red	6-8 V AC/DC	1 1	A3PLE1-6LBR-91	1SQA010815R0001	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=15QC-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

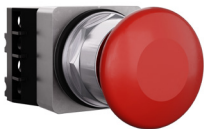
Non-illuminated mushroom pushbuttons–44 mm



A3PB41-600B-10



A3PB41-600G-10

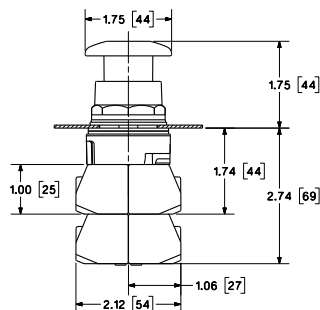


A3PB41-600R-10

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
	-	0 0	A3PP42-600R-00	1SQA009273R0001	1
● Red	-	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

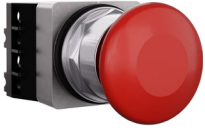


Momentary pushbutton small plastic mushroom head
Dimensions inches, [mm]

Continued on next page

30 mm heavy duty oil-tight range

Non-illuminated mushroom pushbuttons–44 mm metal

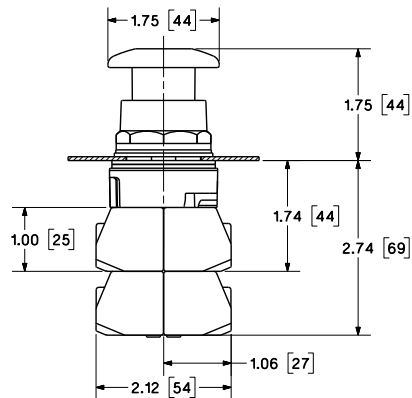


A3PBM1-600R-01

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]

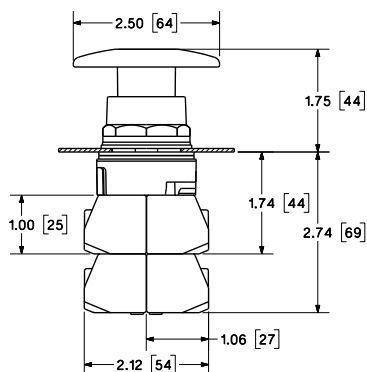
30 mm heavy duty oil-tight range

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



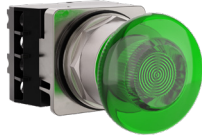
Momentary pushbutton large plastic mushroom head
Dimensions inches, [mm]

30 mm heavy duty oil-tight range

Illuminated mushroom pushbuttons—44 mm



A3PL41-6L2R-11



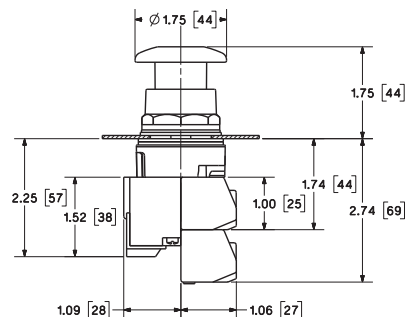
A3PL41-6L2R-11

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	A3PL41-6L5G-91	1SQA010774R0001	1
● Amber	6-8 V AC/DC	1 1	A3PL41-6L5M-91	1SQA010775R0001	1
● Red	6-8 V AC/DC	1 0	A3PL41-6L5R-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

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Illuminated momentary pushbutton small plastic mushroom head

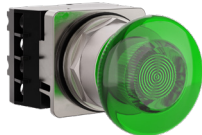
Dimensions inches, [mm]

30 mm heavy duty oil-tight range

Illuminated mushroom pushbuttons–44 mm




A3PP42-6L5R-91

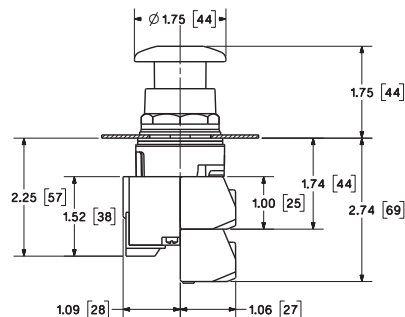


A3PP42-6LLG-11

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	A3PP43-6L4G-1N	1SQA010863R0001	1
		Extra late break			
● Red	120 V AC/DC	1 1	A3PP43-6L4R-1N	1SQA010864R0001	1
		Extra late break			
Maintained push-pull – transformer					
● Red	120 V AC	1 1	A3PP43-6L5R-1N	1SQA010865R0001	1
		Extra late break			
● Green	480 V AC	1 1	A3PP43-6L8G-1N	1SQA010866R0001	1
		Extra late break			
Maintained push-momentary pull – full voltage					
● Red	24 V AC/DC	1 1	A3PP44-6L2R-1N	1SQA010867R0001	1
		Extra late break			
● Red	120 V AC/DC	1 1	A3PP44-6L4R-1N	1SQA010868R0001	1
		Extra late break			
Maintained push-momentary pull – transformer					
● Red	120 V AC	1 1	A3PP44-6L5R-1N	1SQA010869R0001	1
		Extra late break			



Illuminated momentary pushbutton small plastic mushroom head

Dimensions inches, [mm]

30 mm heavy duty oil-tight range

Illuminated mushroom pushbuttons–44 mm metal




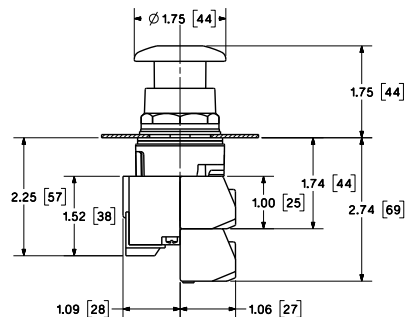
A3XLMLR*

* 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]

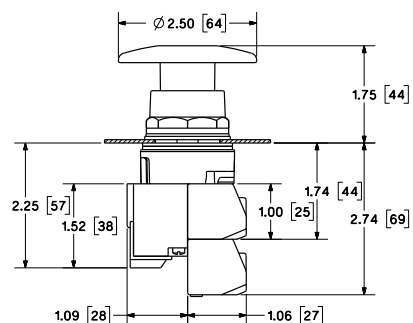
30 mm heavy duty oil-tight range

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



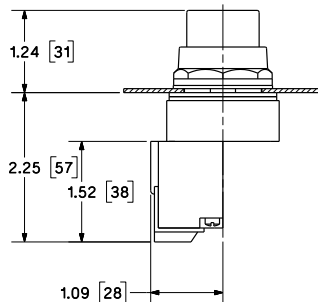
A3L4AA-6L4W

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

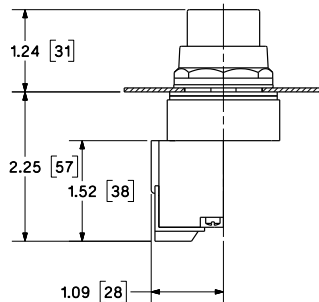


A3L4AA-6L5W

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
● Blue	600 V AC	A3L4AA-6L9G	1SQA009109R0001	1
	120 V AC	A3L4AA-6L5L	1SQA009091R0001	1
	240 V AC	A3L4AA-6L6L	1SQA009097R0001	1
	480 V AC	A3L4AA-6L8L	1SQA009105R0001	1
● Amber	600 V AC	A3L4AA-6L9L	1SQA010494R0001	1
	120 V AC	A3L4AA-6L5M	1SQA009092R0001	1
	240 V AC	A3L4AA-6L6M	1SQA009098R0001	1
	480 V AC	A3L4AA-6L8M	1SQA009106R0001	1
● Red	600 V AC	A3L4AA-6L9M	1SQA010493R0001	1
	120 V AC	A3L4AA-6L5R	1SQA009093R0001	1
	240 V AC	A3L4AA-6L6R	1SQA009099R0001	1
	277 V SC	A3L4AA-6L7R	1SQA009102R0001	1
○ White	480 V AC	A3L4AA-6L8R	1SQA009107R0001	1
	600 V AC	A3L4AA-6L9R	1SQA009110R0001	1
	120 V AC	A3L4AA-6L5W	1SQA009094R0001	1
	240 V AC	A3L4AA-6L6W	1SQA009100R0001	1
○ White	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-6NON	1SQA010199R0001	1



Indicator light plastic lens

Dimensions inches, [mm]

30 mm heavy duty oil-tight range

Non-illuminated selector switches

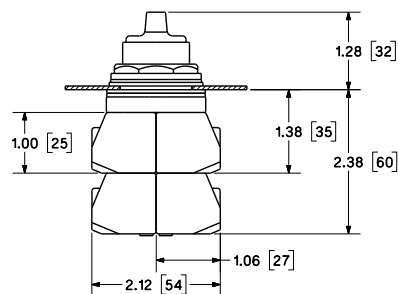


A3SSAA-6AAB-91

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]

Continued on next page

30 mm heavy duty oil-tight range

Non-illuminated selector switches



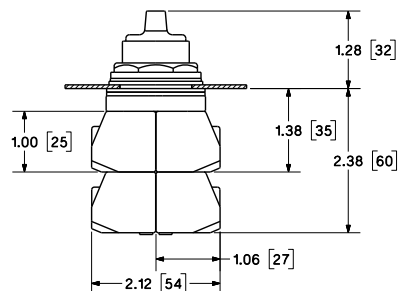
A3SSBB-6AAB-92

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



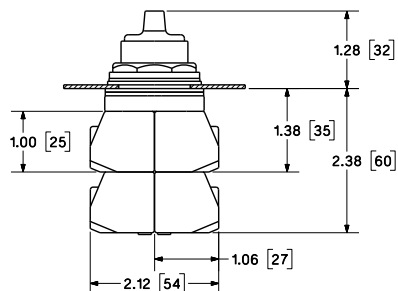
A3SSBD-6AAB-91

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

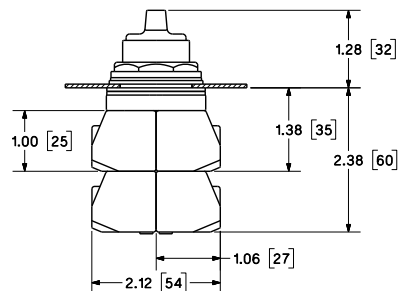


A3SLBA-6AAB-91

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
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



Continued on next page

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 120 V	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
● Red	A	Trans. 120 V	0 0	A3SSAA-6L5G-00	1SQA009430R0001	1
	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	C	FV 24 V	0 0	A3SSCA-6L2M-00	1SQA010434R0001	1
	C	FV 24 V	1 1	A3SSCA-6L2M-91	1SQA010897R0001	1
● Green	C	FV 24 V	1 1	A3SSCA-6L2G-91	1SQA010896R0001	1
	C	FV 24 V	0 0	A3SSCA-6L2G-00	1SQA009453R0001	1
● Red	B	FV 24 V	0 0	A3SSBA-6L2R-00	1SQA010432R0001	1
	B	FV 24 V	1 1	A3SSBA-6L2R-91	1SQA010895R0001	1
● Green	C	FV 120 V	1 1	A3SSCA-6L4G-91	1SQA010898R0001	1
● Blue	C	FV 120 V	0 0	A3SSCA-6L4L-00	1SQA010436R0001	1
	C	FV 120 V	1 1	A3SSCA-6L4L-91	1SQA010899R0001	1
● Green	C	FV 120 V	0 0	A3SSCA-6L4G-00	1SQA009456R0001	1
● Red	C	FV 120 V	1 1	A3SSCA-6L4R-91	1SQA010900R0001	1
	C	FV 120 V	0 0	A3SSCA-6L4R-00	1SQA009459R0001	1
● Green	C	Trans. 120 V	0 0	A3SSCA-6L5G-00	1SQA010438R0001	1
	C	Trans. 120 V	1 1	A3SSCA-6L5G-91	1SQA010901R0001	1
● 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
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	A only	0 0	A3SKAX-6AA1-00	1SQA009345R0001
A		A 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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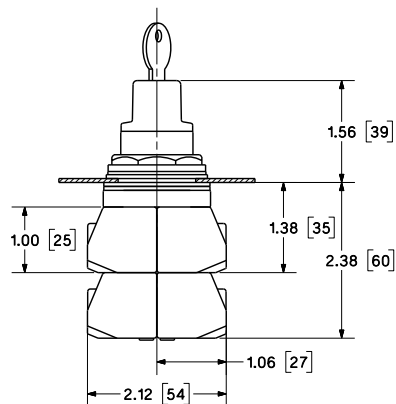
30 mm heavy duty oil-tight range

Non-illuminated key-operated selector switches

Description

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

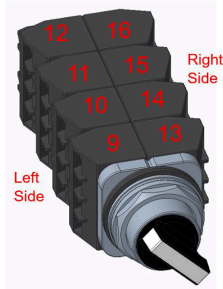
Operating principle	Cam function	Key removal position	Contacts	Catalog number	Order code	Pkg qty
						
3-position						
	E	All	0 0	A3SKEE-6AA1-00	1SQA010418R0001	1
	E	All	1 1	A3SKEE-6AA1-91	1SQA010973R0001	1
	E	All	2 2	A3SKEE-6AA1-92	1SQA011092R0001	1
	G	All	0 0	A3SKGE-6AA1-00	1SQA009378R0001	1
	G	All	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
	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
B		B only	1 1	A3SKBV-6AA1-91	1SQA010961R0001	1
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	1
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
	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			
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

30 mm heavy duty oil-tight range

Contact blocks



A3XC01

Description

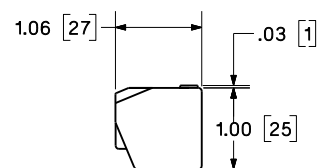
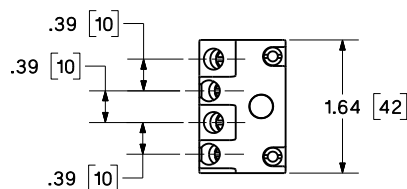
Contact blocks

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



A3XGLP



A3XGPM



A3XGGP



A3XL4NG



A3XL4LG



A3XL4LR



A3XL6NR

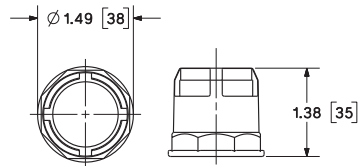
Description

Locks, guards, keys, caps and lenses.

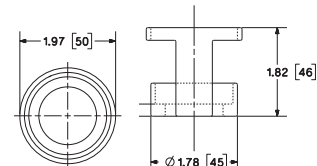
Description	Color	Catalog number	Order code	Pkg qty
Locks and guards				
Pad lock ext cap		A3XGCE	1SQA009500R0001	1
Pad lock flush cap		A3XGCF	1SQA009501R0001	1
Lock nut mushroom		A3XGLM	1SQA009502R0001	1
Lock nut push-pull and twist release		A3XGLN	1SQA009503R0001	1
Lock nut pushbutton		A3XGLP	1SQA009504R0001	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
Caps for 44 mm illuminated mushrooms	Yellow	A3XL4NY	1SQA009517R0001	1
	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
Caps for 60 mm illuminated mushrooms	Yellow	A3XL6NY	1SQA009524R0001	1
	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
Caps for non-illuminated extended pushbuttons	Grey	A3XLEN6	1SQA009531R0001	1
	Orange	A3XLEN8	1SQA009532R0001	1
	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



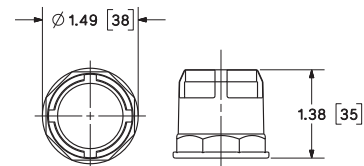
Description

Caps and lenses, selectors and twist releases.

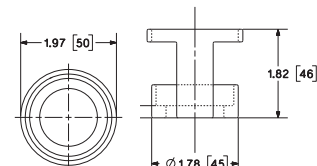
Description	Color	Catalog number	Order code	Pkg qty
Caps and lenses				
Caps for non-illuminated flush pushbuttons	● Grey	A3XLFN6	1SQA009538R0001	1
	● Orange	A3XLFN8	1SQA009539R0001	1
	Assorted*	A3XLFNA	1SQA009540R0001	1
	● Black	A3XLFNB	1SQA009541R0001	1
	● Green	A3XLFNG	1SQA009542R0001	1
	● Blue	A3XLFNL	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
● Green		A3XLMNG	1SQA009558R0001	1
● Red		A3XLMNR	1SQA009559R0001	1
Caps for 44 mm illuminated mushrooms - Metal		● Green	A3XMLG	1SQA009553R0001
	● Amber	A3XMLM	1SQA009554R0001	1
	● Red	A3XMLR	1SQA009555R0001	1
	○ White	A3XMLW	1SQA009556R0001	1
	Caps for selector switches long handle	● Grey	A3XLSG6	1SQA009560R0001
● Orange		A3XLSG8	1SQA009561R0001	1
● Green		A3XLSGG	1SQA009562R0001	1
● Blue		A3XLSGL	1SQA009563R0001	1
● Red		A3XLSGR	1SQA009564R0001	1
○ White		A3XLSGW	1SQA009565R0001	1
● Yellow		A3XLSGY	1SQA009566R0001	1
Caps for selector switches short handle		● Grey	A3XLSS6	1SQA009567R0001
	● 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	A3XMLOL	1SQA010458R0001	1
Red 24-240 V	● Red	A3XMLOU	1SQA010456R0001	1
White 24-240 V	○ White	A3XMLOW	1SQA010455R0001	1
Yellow 24-240 V	● Yellow	A3XMLOY	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



104PEG11S



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
	Open-Close	2	104PES12K	1
	Open-Close-Stop	3	104PES13P	1
	Estop	1	104PES11S	1
	Hand-Auto	1	104PES11T	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)
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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
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.

Application	Module	Transformer type	Rating codes	Performance
Pilot light	Full voltage LED module	A3L	-B (6-8 V), -1 (12 V), -2 (24 V), -4 (120 V) -L (6-24 V), U (24-240 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	A3PL	-B (6-8 V), -1 (12 V), -2 (24 V), -4 (120 V) -L (6-24 V), U (24-240 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	A3PP	-B (6-8 V), -1 (12 V), -2 (24 V), -4 (120 V) -L (6-24 V), U (24-240 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	A3PT	-B (6-8 V), -1 (12 V), -2 (24 V), -4 (120 V) -L (6-24 V), U (24-240 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)	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	5,000,000 Operating cycles
	Momentary, illuminated	300,000 Operating cycles
Push-pull	Maintained	300,000 Operating cycles
	Momentary	2,000,000 Operating cycles
Twist-to-release		300,000 Operating cycles
Selector Switches	Non-illuminated	2,000,000 Operating cycles
	Illuminated, key-operated	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	31 °F to +158 °F (-35 °C to +70 °C)
	storage	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.

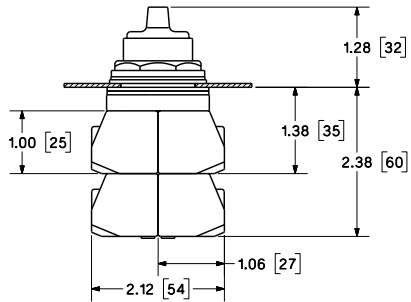
Applicable Standards: EN 60947-5-1 Low-Voltage Switchgear and control gear. Enclosed devices meet the requirements of environmental ratings of IP10, IP11, IP14, IP52, IP54, and IP56. Open devices, when mounted as instructed, in environmental type IP10, IP11, IP14, IP52, IP54 or IP56 enclosures, maintain 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

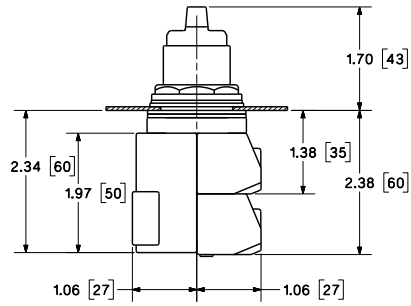
Dimensions

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

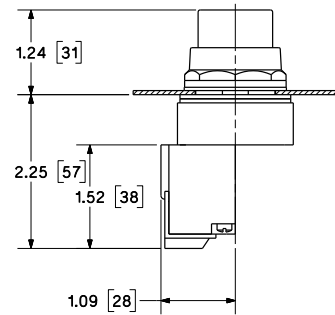
Selector switch
Non-illuminated



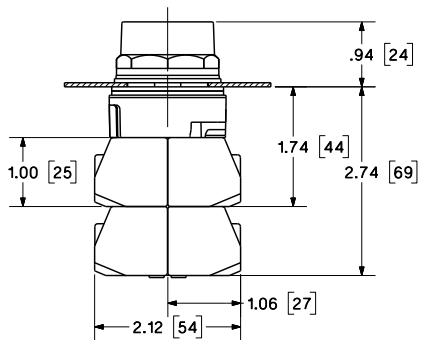
Selector switch
illuminated



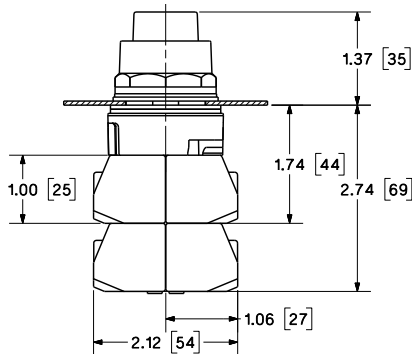
Indicator light



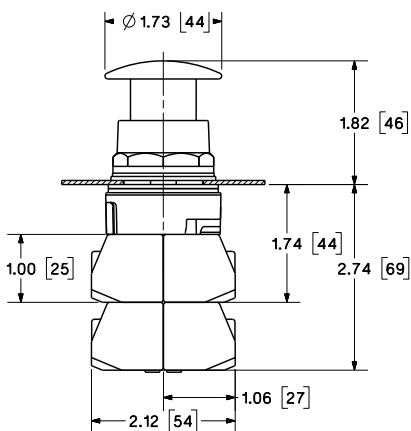
Momentary pushbutton
non-illuminated flush cap



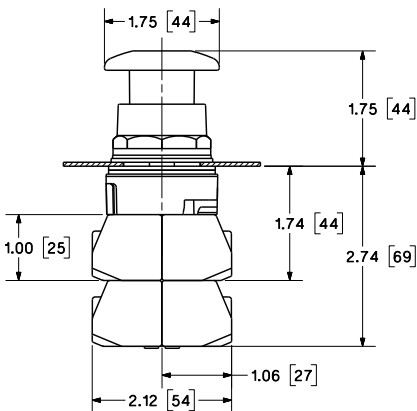
Momentary pushbutton
non-illuminated raised cap



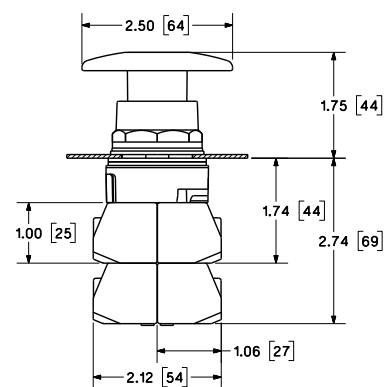
Momentary pushbutton
metal mushroom head



Momentary pushbutton
small plastic mushroom head



Momentary pushbutton
large plastic mushroom head

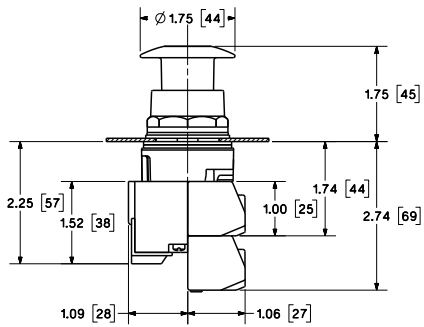


30 mm heavy duty oil-tight range

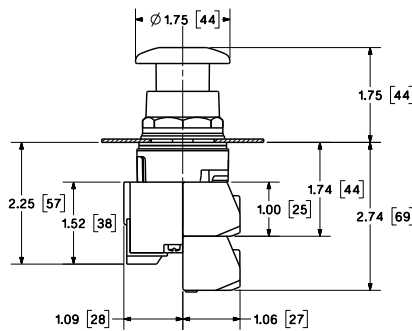
Dimensions

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

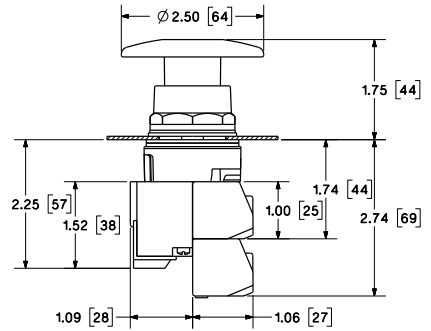
Illuminated momentary pushbutton
metal mushroom head



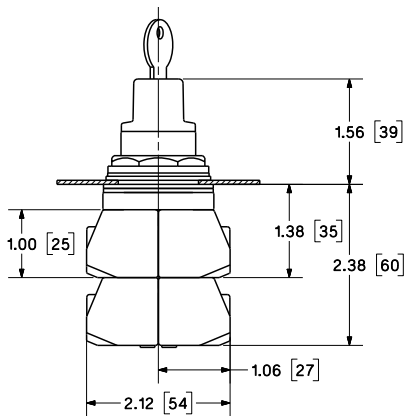
Illuminated momentary pushbutton
small plastic mushroom head



Illuminated momentary pushbutton
large plastic mushroom head



Selector switch
keyed

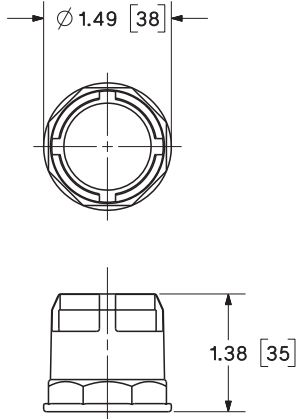


30 mm heavy duty oil-tight range

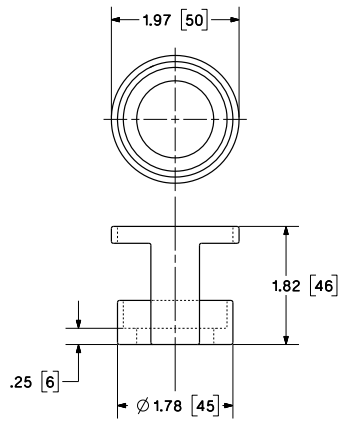
Dimensions

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

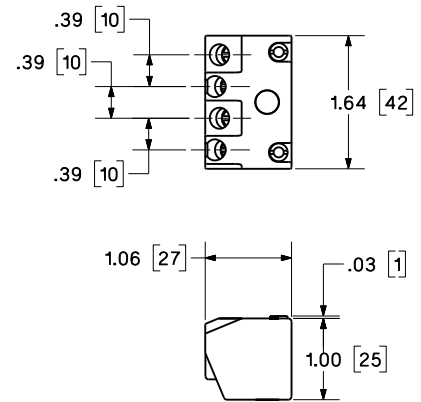
Momentary pushbutton guard
illuminated push to test guard



Mushroom head guard



Contact block



30 mm heavy duty oil-tight range

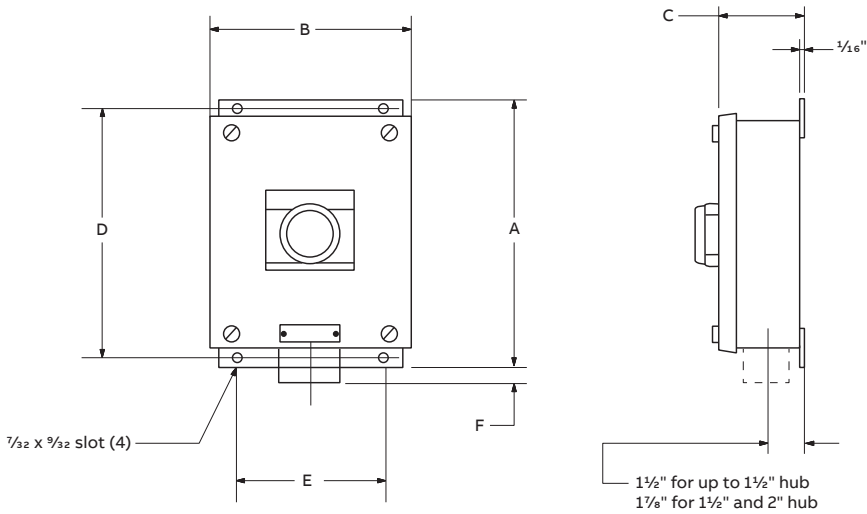
Dimensions

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	1¼

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	Danger	Emergency	Faulty
● Yellow	Warning/caution	Abnormal	Abnormal
● Green	Safe	Normal	Normal
● Blue	Mandatory significance		
○ ● 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	Protection of persons
	Against ingress of foreign bodies	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



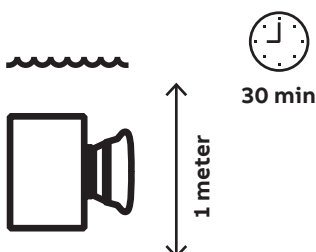
Note: the type of enclosure or cubicle in which the equipment must be installed prevails with respect to the degree of protection.

(*) According to DIN 400 50-9.

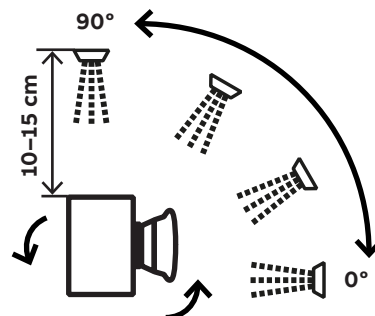
Water tests

IP67

The product is submerged



IP69K



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Order code classification

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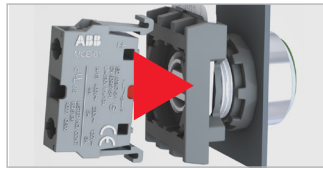
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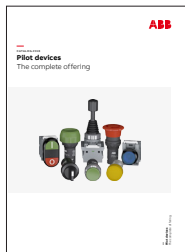


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ABB ABB PILOT DEVICES

Detailed information for: ML1-100R

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If you require any other information, please contact us using form located at the bottom of the page.

ML1-100R

General information

Extended Product Type: ML1-100R
Product ID: 1SFA611400R1001
EAN: 730500306154
Catalog Description: ML1-100R Pilot Light
Long Description: Modular Pilot Light - Pilot light head - Red - Illuminated

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