CATALOG 2020

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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1SFC151007C0201 _Rev B - Edition July 2020

Pilot devices
Reliable in all applications

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



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01



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02



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03

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01 Elevator
—
02 EV charging
—
03 Marine

A small upgrade that can make a big difference.

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

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



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04

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



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05

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04 Food and beverage
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05 Marine and ports

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.

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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.

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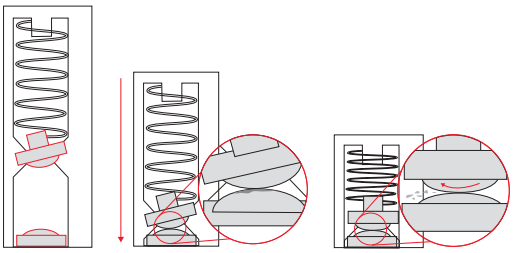
Pilot devices
Reliability that lasts

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 metre 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.

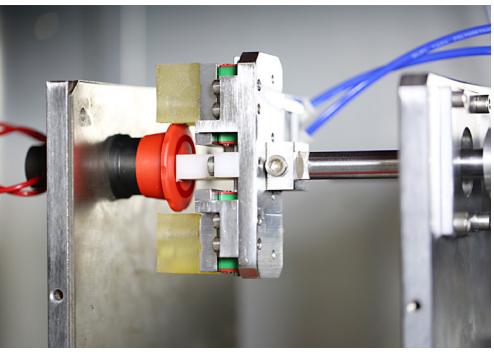
Find full test description in general technical data section.

—
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

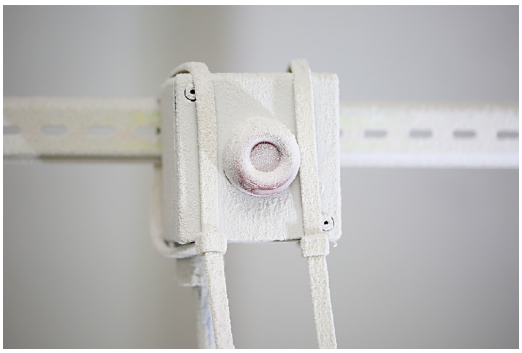
Testing that goes beyond the standards

Watch the video

—
Trust ABB to produce products that work in any environment.



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01



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02



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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.


Pushbuttons


Heavy duty pushbuttons



Reset pushbuttons



Double pushbuttons


Mushroom pushbuttons


Emergency stop pushbuttons


Machine stop pushbuttons

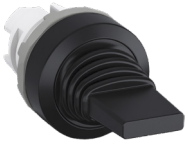

Pilot lights


Selector switches


Key-operated selector switches

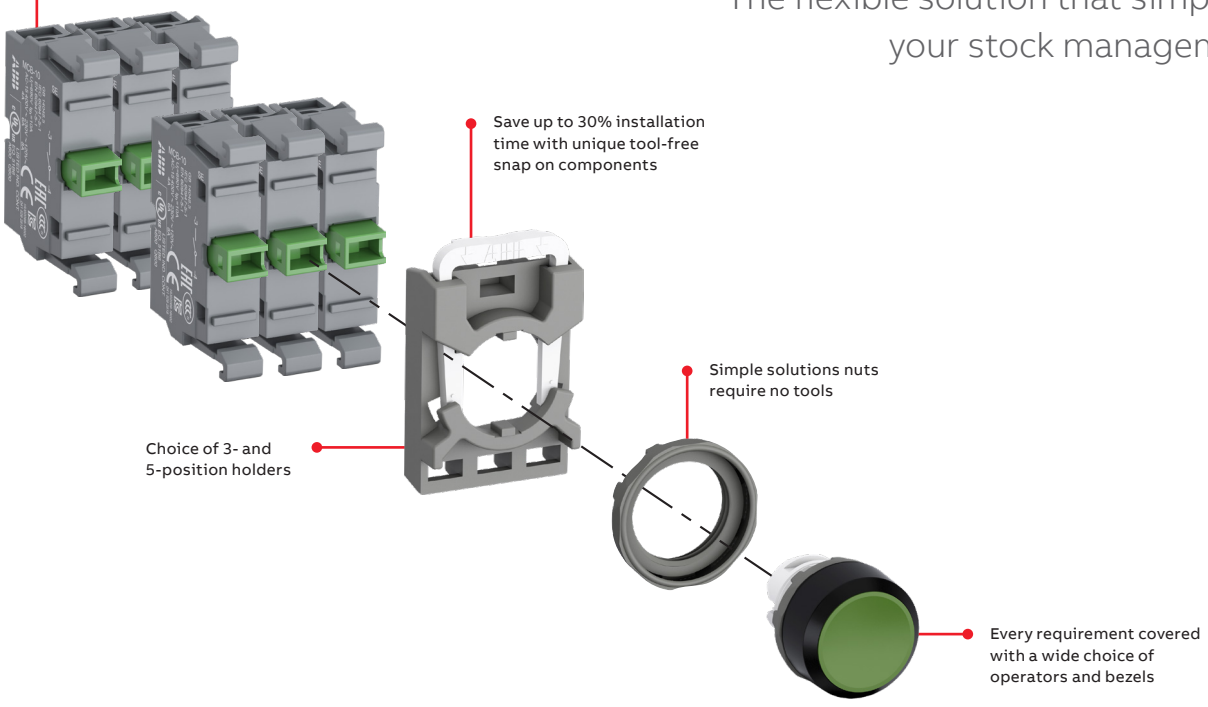

Potentiometers


Joysticks


Toggle switches

More flexibility:
Last-minute changes made easy
Up to 6 contact blocks, NO and NC

High AC-15 electrical ratings 6 A at 230 V.
The flexible solution that simplifies your stock management.



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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.



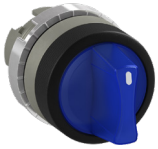
Pushbuttons



Mushroom pushbuttons



Pilot lights



Selector switches



Key-operated selector switches



Joysticks



Toggle switches



Selector pushbuttons

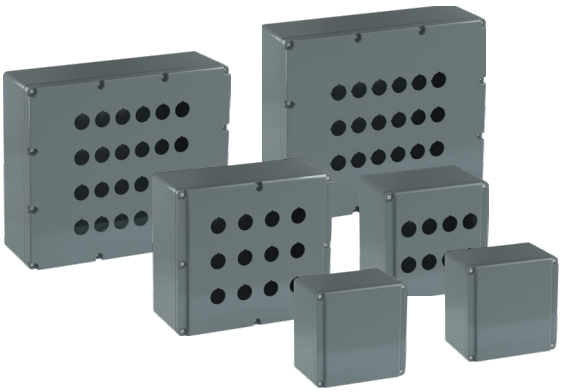


Installation time savings
Tool-free, snap-on components make mounting and dismounting quick and easy

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

IP66 aluminium 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.



1SFC151002S0201

Pilot devices
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
25 Pilot lights
26 Non-illuminated selector switches
31 Illuminated selector switches
35 Key-operated selector switches
37 Potentiometers
38 Reset pushbuttons
39 Reset pushbuttons with shaft
40 Joysticks
41 Toggle switches

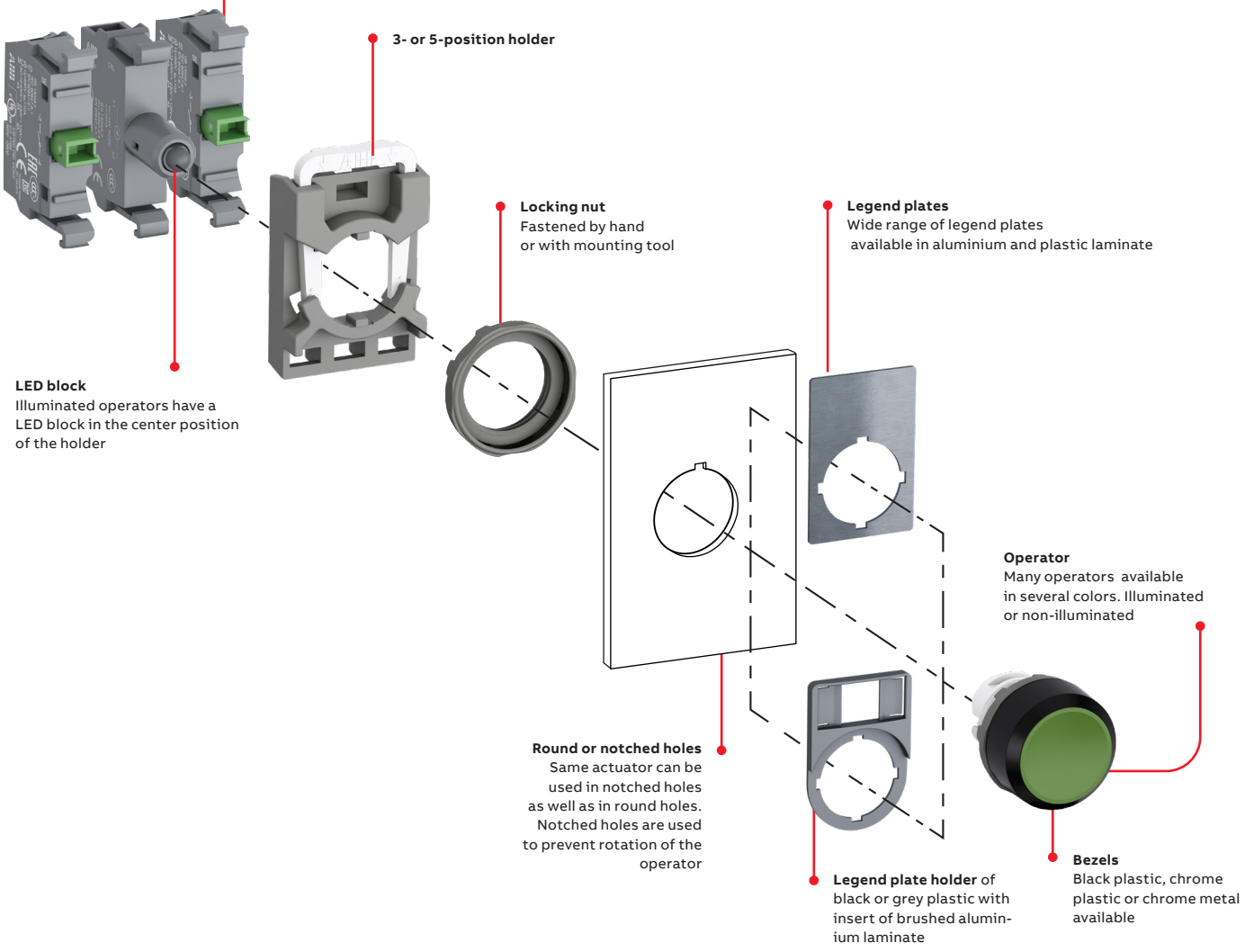
Accessories for modular range

42 Contact block configuration
43 Holders and contact blocks for front mounting
44 LED blocks for front mounting
46 Other accessories

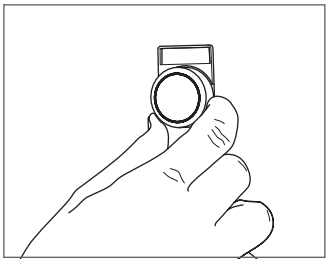
48 **Technical data**

52 **Drilling plan**

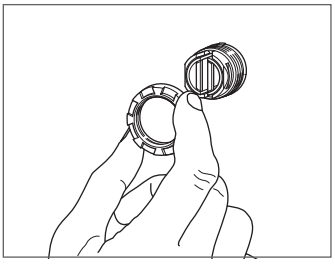
Modular plastic range



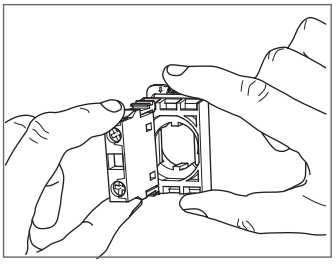
Easy to install



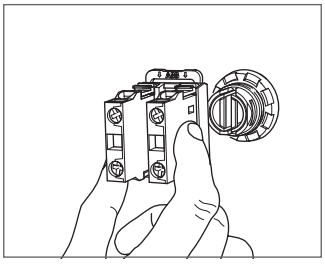
The operator is to be inserted from the front...



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

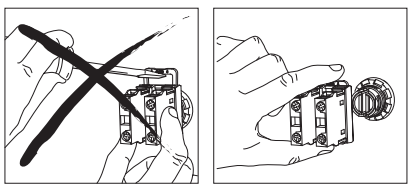


The contact blocks/LED block are then snapped on to the holder...



...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

1SFC151003S0201

Modular plastic range

Non-illuminated flush pushbuttons


1SFC151004V0001

MP1-10R


1SFC151016V0001

MP1-10Y


1SFC151031V0001

MP1-30L


1SFC151015V0001

MP2-10G

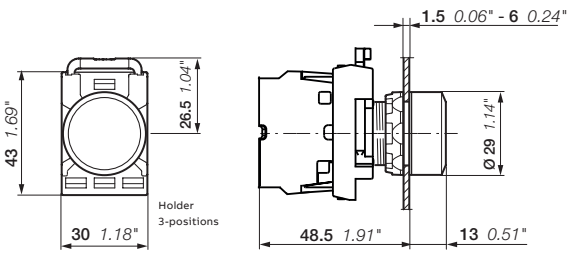

1SFC151018V0001

MP2-10W


1SFC151029V0001

MP2-20B

Operator	Bezel	Type	Order code	Pkg qty	Weight (1 pce) kg
Momentary					
● Red	Black plastic	MP1-10R	1SFA611100R1001	10	0.016
	Chrome plastic	MP1-20R	1SFA611100R2001	10	0.016
	Chrome metal	MP1-30R	1SFA611100R3001	10	0.026
● Green	Black plastic	MP1-10G	1SFA611100R1002	10	0.016
	Chrome plastic	MP1-20G	1SFA611100R2002	10	0.016
	Chrome metal	MP1-30G	1SFA611100R3002	10	0.026
● Yellow	Black plastic	MP1-10Y	1SFA611100R1003	10	0.016
	Chrome plastic	MP1-20Y	1SFA611100R2003	10	0.016
	Chrome metal	MP1-30Y	1SFA611100R3003	10	0.026
● Blue	Black plastic	MP1-10L	1SFA611100R1004	10	0.016
	Chrome plastic	MP1-20L	1SFA611100R2004	10	0.016
	Chrome metal	MP1-30L	1SFA611100R3004	10	0.026
○ White	Black plastic	MP1-10W	1SFA611100R1005	10	0.016
	Chrome plastic	MP1-20W	1SFA611100R2005	10	0.016
	Chrome metal	MP1-30W	1SFA611100R3005	10	0.026
● Black	Black plastic	MP1-10B	1SFA611100R1006	10	0.016
	Chrome plastic	MP1-20B	1SFA611100R2006	10	0.016
	Chrome metal	MP1-30B	1SFA611100R3006	10	0.026
○ Clear	Black plastic	MP1-10C	1SFA611100R1008	10	0.016
	Chrome plastic	MP1-20C	1SFA611100R2008	10	0.016
	Chrome metal	MP1-30C	1SFA611100R3008	10	0.026
Maintained					
● Red	Black plastic	MP2-10R	1SFA611101R1001	10	0.016
	Chrome plastic	MP2-20R	1SFA611101R2001	10	0.016
	Chrome metal	MP2-30R	1SFA611101R3001	10	0.026
● Green	Black plastic	MP2-10G	1SFA611101R1002	10	0.016
	Chrome plastic	MP2-20G	1SFA611101R2002	10	0.016
	Chrome metal	MP2-30G	1SFA611101R3002	10	0.026
● Yellow	Black plastic	MP2-10Y	1SFA611101R1003	10	0.016
	Chrome metal	MP2-30Y	1SFA611101R3003	10	0.026
● Blue	Black plastic	MP2-10L	1SFA611101R1004	10	0.016
	Chrome plastic	MP2-20L	1SFA611101R2004	10	0.016
	Chrome metal	MP2-30L	1SFA611101R3004	10	0.026
○ White	Black plastic	MP2-10W	1SFA611101R1005	10	0.016
	Chrome plastic	MP2-20W	1SFA611101R2005	10	0.016
● Black	Black plastic	MP2-10B	1SFA611101R1006	10	0.016
	Chrome plastic	MP2-20B	1SFA611101R2006	10	0.016
	Chrome metal	MP2-30B	1SFA611101R3006	10	0.026
○ Clear	Black plastic	MP2-10C	1SFA611101R1008	10	0.016



MP1, MP2

Dimensions (mm, inches)

Modular plastic range

Non-illuminated extended pushbuttons


1SFC151006V0001

MP3-10R


1SFC151028V0001

MP3-20Y


1SFC151013V0001

MP3-10W


1SFC151353V0001

MP3-10C


1SFC151012V0001

MP4-10G

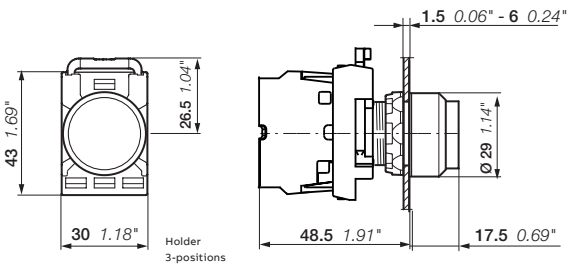

1SFC151019V0001

MP4-10L


1SFC151011V0001

MP4-10B

Operator	Bezel	Type	Order code	Pkg qty	Weight (1 pce) kg
Momentary					
● Red	Black plastic	MP3-10R	1SFA611102R1001	10	0.016
	Chrome plastic	MP3-20R	1SFA611102R2001	10	0.016
	Chrome metal	MP3-30R	1SFA611102R3001	10	0.026
● Green	Black plastic	MP3-10G	1SFA611102R1002	10	0.016
	Chrome plastic	MP3-20G	1SFA611102R2002	10	0.016
	Chrome metal	MP3-30G	1SFA611102R3002	10	0.026
● Yellow	Black plastic	MP3-10Y	1SFA611102R1003	10	0.016
	Chrome plastic	MP3-20Y	1SFA611102R2003	10	0.016
	Chrome metal	MP3-30Y	1SFA611102R3003	10	0.026
● Blue	Black plastic	MP3-10L	1SFA611102R1004	10	0.016
	Chrome plastic	MP3-20L	1SFA611102R2004	10	0.016
	Chrome metal	MP3-30L	1SFA611102R3004	10	0.026
○ White	Black plastic	MP3-10W	1SFA611102R1005	10	0.016
	Chrome plastic	MP3-20W	1SFA611102R2005	10	0.016
	Chrome metal	MP3-30W	1SFA611102R3005	10	0.026
● Black	Black plastic	MP3-10B	1SFA611102R1006	10	0.016
	Chrome plastic	MP3-20B	1SFA611102R2006	10	0.016
	Chrome metal	MP3-30B	1SFA611102R3006	10	0.026
○ Clear	Black plastic	MP3-10C	1SFA611102R1008	10	0.016
	Chrome metal	MP3-30C	1SFA611102R3008	10	0.026
Maintained					
● Red	Black plastic	MP4-10R	1SFA611103R1001	10	0.016
	Chrome plastic	MP4-20R	1SFA611103R2001	10	0.016
● Green	Black plastic	MP4-10G	1SFA611103R1002	10	0.016
	Chrome plastic	MP4-20G	1SFA611103R2002	10	0.016
	Chrome metal	MP4-30G	1SFA611103R3002	10	0.026
● Yellow	Black plastic	MP4-10Y	1SFA611103R1003	10	0.016
	Chrome plastic	MP4-20Y	1SFA611103R2003	10	0.016
● Blue	Black plastic	MP4-10L	1SFA611103R1004	10	0.016
	Chrome plastic	MP4-20L	1SFA611103R2004	10	0.016
○ White	Black plastic	MP4-10W	1SFA611103R1005	10	0.016
● Black	Black plastic	MP4-10B	1SFA611103R1006	10	0.016
	Chrome metal	MP4-30B	1SFA611103R3006	10	0.026
○ Clear	Black plastic	MP4-10C	1SFA611103R1008	10	0.016



MP3, MP4

Dimensions (mm, inches)

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Modular plastic range

Illuminated flush pushbuttons



MP1-31G



MP1-11Y



MP1-21L



MP2-31R

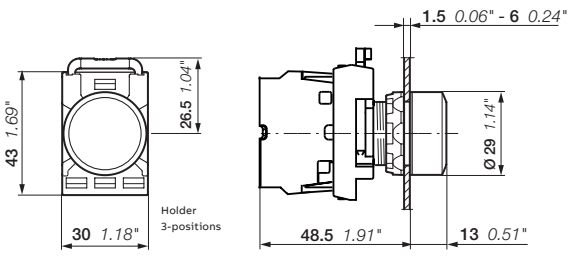


MP2-11L



MP2-11C

Operator	Bezel	Type	Order code	Pkg qty	Weight (1 pce) kg
Momentary					
● Red	Black plastic	MP1-11R	1SFA611100R1101	10	0.016
	Chrome plastic	MP1-21R	1SFA611100R2101	10	0.016
	Chrome metal	MP1-31R	1SFA611100R3101	10	0.026
● Green	Black plastic	MP1-11G	1SFA611100R1102	10	0.016
	Chrome plastic	MP1-21G	1SFA611100R2102	10	0.016
	Chrome metal	MP1-31G	1SFA611100R3102	10	0.026
● Yellow	Black plastic	MP1-11Y	1SFA611100R1103	10	0.016
	Chrome plastic	MP1-21Y	1SFA611100R2103	10	0.016
	Chrome metal	MP1-31Y	1SFA611100R3103	10	0.026
● Blue	Black plastic	MP1-11L	1SFA611100R1104	10	0.016
	Chrome plastic	MP1-21L	1SFA611100R2104	10	0.016
	Chrome metal	MP1-31L	1SFA611100R3104	10	0.026
○ White	Black plastic	MP1-11W	1SFA611100R1105	10	0.016
	Chrome plastic	MP1-21W	1SFA611100R2105	10	0.016
	Chrome metal	MP1-31W	1SFA611100R3105	10	0.026
○ Clear	Black plastic	MP1-11C	1SFA611100R1108	10	0.016
	Chrome plastic	MP1-21C	1SFA611100R2108	10	0.016
	Chrome metal	MP1-31C	1SFA611100R3108	10	0.026
Maintained					
● Red	Black plastic	MP2-11R	1SFA611101R1101	10	0.016
	Chrome plastic	MP2-21R	1SFA611101R2101	10	0.016
	Chrome metal	MP2-31R	1SFA611101R3101	10	0.026
● Green	Black plastic	MP2-11G	1SFA611101R1102	10	0.016
	Chrome plastic	MP2-21G	1SFA611101R2102	10	0.016
	Chrome metal	MP2-31G	1SFA611101R3102	10	0.026
● Yellow	Black plastic	MP2-11Y	1SFA611101R1103	10	0.016
	Chrome plastic	MP2-21Y	1SFA611101R2103	10	0.016
	Chrome metal	MP2-31Y	1SFA611101R3103	10	0.026
● Blue	Black plastic	MP2-11L	1SFA611101R1104	10	0.016
	Chrome plastic	MP2-21L	1SFA611101R2104	10	0.016
	Chrome metal	MP2-31L	1SFA611101R3104	10	0.026
○ White	Black plastic	MP2-11W	1SFA611101R1105	10	0.016
	Chrome plastic	MP2-21W	1SFA611101R2105	10	0.016
	Chrome metal	MP2-31W	1SFA611101R3105	10	0.026
○ Clear	Black plastic	MP2-11C	1SFA611101R1108	10	0.016
	Chrome metal	MP2-31C	1SFA611101R3108	10	0.026



MP1, MP2

Dimensions (mm, inches)

Modular plastic range

Illuminated extended pushbuttons


1SFC151065V0001

MP3-11R


1SFC151062V0001

MP3-31G


1SFC151072V0001

MP3-11W


1SFC151063V0001

MP4-11Y

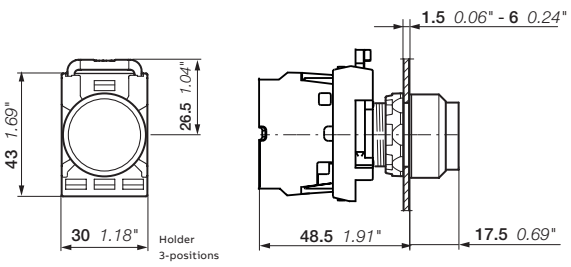

1SFC151061V0001

MP4-31L


1SFC151067V0001

MP4-21C

Operator	Bezel	Type	Order code	Pkg qty	Weight (1 pce) kg
Momentary					
● Red	Black plastic	MP3-11R	1SFA611102R1101	10	0.016
	Chrome plastic	MP3-21R	1SFA611102R2101	10	0.016
	Chrome metal	MP3-31R	1SFA611102R3101	10	0.026
● Green	Black plastic	MP3-11G	1SFA611102R1102	10	0.016
	Chrome plastic	MP3-21G	1SFA611102R2102	10	0.016
	Chrome metal	MP3-31G	1SFA611102R3102	10	0.026
● Yellow	Black plastic	MP3-11Y	1SFA611102R1103	10	0.016
	Chrome plastic	MP3-21Y	1SFA611102R2103	10	0.016
	Chrome metal	MP3-31Y	1SFA611102R3103	10	0.026
● Blue	Black plastic	MP3-11L	1SFA611102R1104	10	0.016
	Chrome plastic	MP3-21L	1SFA611102R2104	10	0.016
	Chrome metal	MP3-31L	1SFA611102R3104	10	0.026
○ White	Black plastic	MP3-11W	1SFA611102R1105	10	0.016
	Chrome plastic	MP3-21W	1SFA611102R2105	10	0.016
	Chrome metal	MP3-31W	1SFA611102R3105	10	0.026
○ Clear	Black plastic	MP3-11C	1SFA611102R1108	10	0.016
	Chrome plastic	MP3-21C	1SFA611102R2108	10	0.016
	Chrome metal	MP3-31C	1SFA611102R3108	10	0.026
Maintained					
● Red	Black plastic	MP4-11R	1SFA611103R1101	10	0.016
	Chrome plastic	MP4-21R	1SFA611103R2101	10	0.016
	Chrome metal	MP4-31R	1SFA611103R3101	10	0.026
● Green	Black plastic	MP4-11G	1SFA611103R1102	10	0.016
	Chrome plastic	MP4-21G	1SFA611103R2102	10	0.016
	Chrome metal	MP4-31G	1SFA611103R3102	10	0.026
● Yellow	Black plastic	MP4-11Y	1SFA611103R1103	10	0.016
	Chrome plastic	MP4-21Y	1SFA611103R2103	10	0.016
● Blue	Black plastic	MP4-11L	1SFA611103R1104	10	0.016
	Chrome plastic	MP4-21L	1SFA611103R2104	10	0.016
	Chrome metal	MP4-31L	1SFA611103R3104	10	0.026
○ White	Black plastic	MP4-11W	1SFA611103R1105	10	0.016
	Chrome plastic	MP4-21W	1SFA611103R2105	10	0.016
○ Clear	Black plastic	MP4-11C	1SFA611103R1108	10	0.016
	Chrome plastic	MP4-21C	1SFA611103R2108	10	0.016
	Chrome metal	MP4-31C	1SFA611103R3108	10	0.026



MP3, MP4

Dimensions (mm, inches)

1SFC151007S0201

Modular plastic range

Non-illuminated double pushbuttons momentary



MPD1-11B



MPD5-11B



MPD13-11B



MPD15-11B



MA1-8139

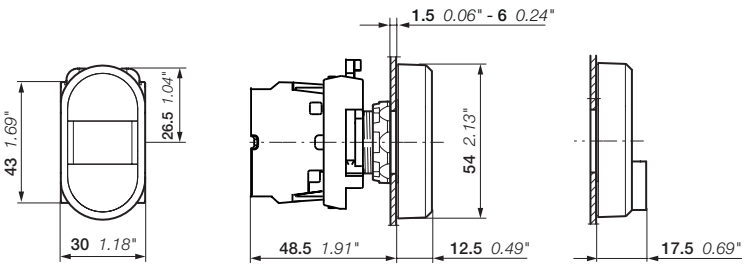
Operator upper button	Operator lower button	Type	Order code	Pkg qty	Weight (1 pce) kg
Flush pushbutton					
● **Green**	● **Red**				
No text	No text	MPD1-11B	1SFA611130R1106	10	0.025
I	0	MPD2-11B	1SFA611131R1106	10	0.025
ON	OFF	MPD3-11B	1SFA611132R1106	10	0.025
START	STOP	MPD4-11B	1SFA611133R1106	10	0.025
○ **White**	● **Black**				
No text	No text	MPD5-11B	1SFA611134R1106	10	0.025
I	0	MPD6-11B	1SFA611135R1106	10	0.025
ON	OFF	MPD7-11B	1SFA611136R1106	10	0.025
START	STOP	MPD8-11B	1SFA611137R1106	10	0.025
● **Black**	● **Red**				
No text	No text	MPD9-11B	1SFA611138R1106	10	0.025
Extended lower pushbutton					
● **Green**	● **Red**				
No text	No text	MPD12-11B	1SFA611141R1106	10	0.025
I	0	MPD13-11B	1SFA611142R1106	10	0.025
ON	OFF	MPD14-11B	1SFA611143R1106	10	0.025
START	STOP	MPD15-11B	1SFA611144R1106	10	0.025
○ **White**	● **Black**				
No text	No text	MPD16-11B	1SFA611145R1106	10	0.025
I	0	MPD17-11B	1SFA611146R1106	10	0.025
ON	OFF	MPD18-11B	1SFA611147R1106	10	0.025
START	STOP	MPD19-11B	1SFA611148R1106	10	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

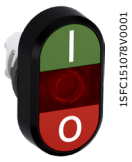


1SFC151088V0001

MPD4-11C


1SFC151100V0001

MPD5-11C



1SFC151078V0001

MPD2-11R



1SFC151083V0001

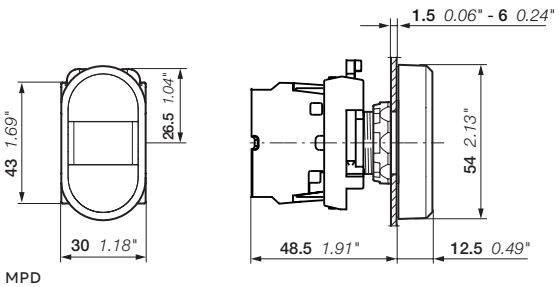
MDP3-11G


1SFC151341F0001

MA1-8139

Operator upper button	Operator lower button	Type	Order code	Pkg qty	Weight (1 pce) kg
Clear light indicator					
● **Green**	● **Red**				
No text	No text	MPD1-11C	1SFA611130R1108	10	0.025
I	0	MPD2-11C	1SFA611131R1108	10	0.025
ON	OFF	MPD3-11C	1SFA611132R1108	10	0.025
START	STOP	MPD4-11C	1SFA611133R1108	10	0.025
○ **White**	● **Black**				
No text	No text	MPD5-11C	1SFA611134R1108	10	0.025
I	0	MPD6-11C	1SFA611135R1108	10	0.025
START	STOP	MPD8-11C	1SFA611137R1108	10	0.025
Red light indicator					
● **Green**	● **Red**				
No text	No text	MPD1-11R	1SFA611130R1101	10	0.025
I	0	MPD2-11R	1SFA611131R1101	10	0.025
ON	OFF	MPD3-11R	1SFA611132R1101	10	0.025
START	STOP	MPD4-11R	1SFA611133R1101	10	0.025
○ **White**	● **Black**				
No text	No text	MPD5-11R	1SFA611134R1101	10	0.025
Green light indicator					
● **Green**	● **Red**				
No text	No text	MPD1-11G	1SFA611130R1102	10	0.025
I	0	MPD2-11G	1SFA611131R1102	10	0.025
ON	OFF	MPD3-11G	1SFA611132R1102	10	0.025
START	STOP	MPD4-11G	1SFA611133R1102	10	0.025
○ **White**	● **Black**				
No text	No text	MPD5-11G	1SFA611134R1102	10	0.025
I	0	MPD6-11G	1SFA611135R1102	10	0.025
ON	OFF	MPD7-11G	1SFA611136R1102	10	0.025
START	STOP	MPD8-11G	1SFA611137R1102	10	0.025
Yellow light indicator					
● **Green**	● **Red**				
No text	No text	MPD1-11Y	1SFA611130R1103	10	0.025
I	0	MPD2-11Y	1SFA611131R1103	10	0.025
ON	OFF	MPD3-11Y	1SFA611132R1103	10	0.025
START	STOP	MPD4-11Y	1SFA611133R1103	10	0.025
○ **White**	● **Black**				
No text	No text	MPD5-11Y	1SFA611134R1103	10	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



MDP14-11G



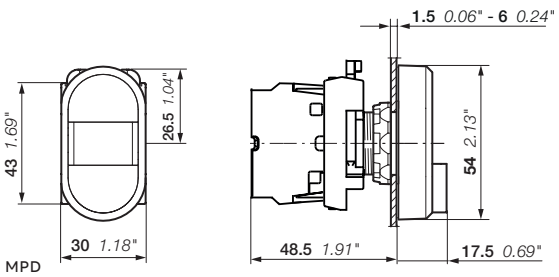
MDP12-11Y



MA1-8139

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

Mushroom pushbuttons momentary



MPM1-10G



MPM1-10B



MPM2-10R



MPM2-10Y

Non illuminated

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



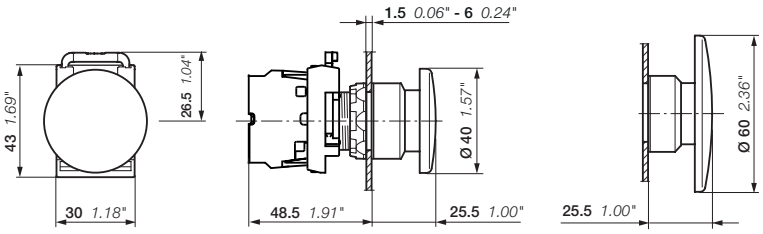
MPM1-11G



MPM2-11R

Illuminated

Operator	Type	Order code	Pkg qty	Weight (1 pce) kg
Ø 40 mm				
Red	MPM1-11R	1SFA611124R1101	10	0.018
Green	MPM1-11G	1SFA611124R1102	10	0.018
Yellow	MPM1-11Y	1SFA611124R1103	10	0.018
Ø 60 mm				
Red	MPM2-11R	1SFA611125R1101	10	0.020
Yellow	MPM2-11Y	1SFA611125R1103	10	0.020



MPM1, MPM2

Dimensions (mm, inches)

Modular plastic range

Emergency stop pushbuttons


1SFC151070V0001

MPET3-10R


1SFC151108V0001

MPEK3-11R


1SFC151098V0001

MPET4-10R


1SFC151106V0001

MPMP4-10R

Non illuminated

The emergency stops pushbuttons conform to the standard EN/IEC 60947-5-5, Safety of machinery EN/ISO 13850 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

Note: Micro switch block MCBL-01 are not direct opening and does not fulfill IEC60947-5-5 for emergency stop devices.


1SFC151103V0001

MPMP3-11R

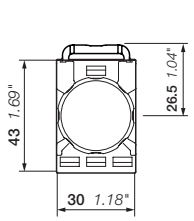

1SFC151105V0001

MPMT4-11R

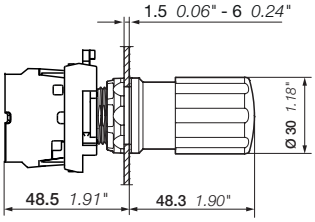
Illuminated

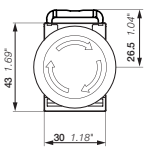
Operator	Release method	Type	Order code	Pkg qty	Weight (1 pce) kg
Ø 40 mm					
Red	Twist release	MPMT3-11R	1SFA611510R1101	1	0.041
Red	Pull release	MPMP3-11R	1SFA611511R1101	1	0.041
Ø 60 mm					
Red	Twist release	MPMT4-11R	1SFA611513R1101	1	0.048
Red	Pull release	MPMP4-11R	1SFA611514R1101	1	0.048

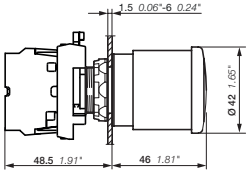
Note: Micro switch block MCBL-01 are not direct opening and does not fulfill IEC60947-5-5 for emergency stop devices.



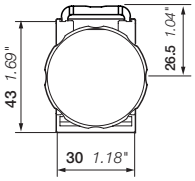
MPET3, MPEP3

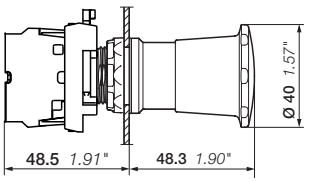


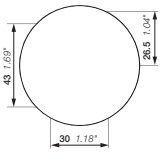


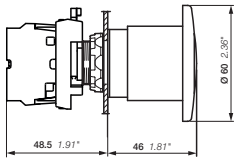


MPMT3, MPMP3









MPMT4, MPMP4

MPET4, MPEP4

Dimensions (mm, inches)

1SFC151015O201

Modular plastic range

Machine stop pushbuttons



MPET3-10B



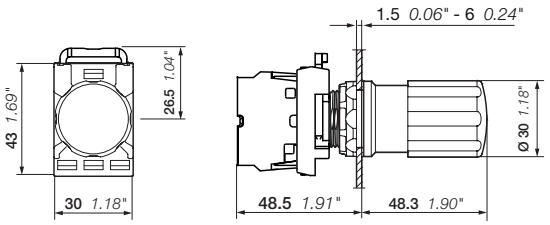
MPET4-10B



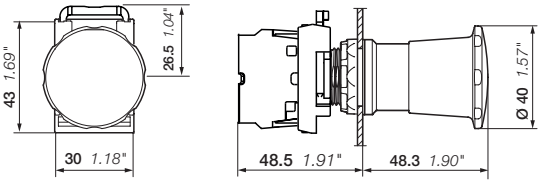
MPEK4-11B

Non illuminated

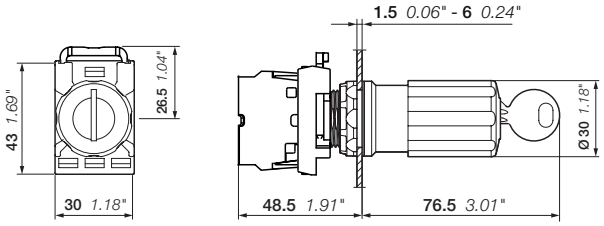
Operator	Release method	Type	Order code	Pkg qty	Weight (1 pce) kg
Ø 30 mm					
● Black	Twist release	MPET3-10B	1SFA611520R1006	1	0.036
● Black	Pull release	MPEP3-10B	1SFA611521R1006	1	0.036
● Black	Key code 455	MPEK3-11B	1SFA611522R1106	1	0.065
Ø 40 mm					
● Black	Twist release	MPET4-10B	1SFA611523R1006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



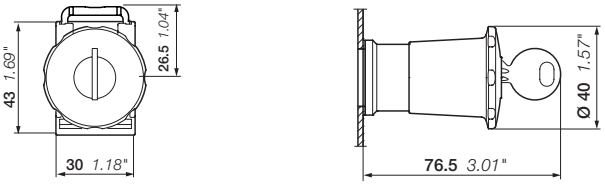
MPET3, MPEP3



MPET4, MPEP4



MPEK3



MPEK4

Dimensions (mm, inches)

Modular plastic range

Heavy duty pushbuttons



KP6-40R



KP6-40G

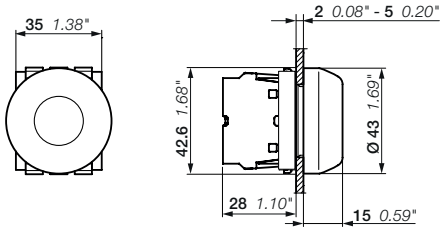


KP6-40B

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



ML1-100G



ML1-100Y



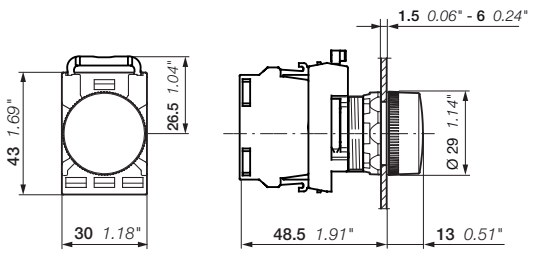
ML1-100C



ML1-100L

Color	Type	Order code	Pkg qty	Weight (1 pce) kg
Red	ML1-100R	1SFA611400R1001	10	0.018
Green	ML1-100G	1SFA611400R1002	10	0.018
Yellow	ML1-100Y	1SFA611400R1003	10	0.018
Blue	ML1-100L	1SFA611400R1004	10	0.018
White	ML1-100W	1SFA611400R1005	10	0.018
Clear	ML1-100C	1SFA611400R1008	10	0.018
Lens				
Light diffusing lens	KA1-8005	1SFA616920R8005	10	0.001

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

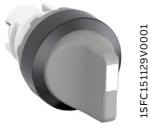
Non-illuminated selector switches - 2-position - Short handle



M2SS1-10R



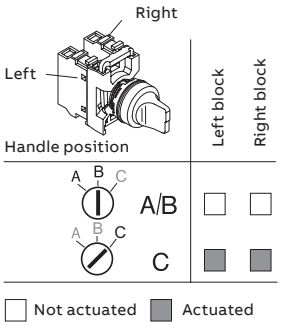
M2SS1-30B

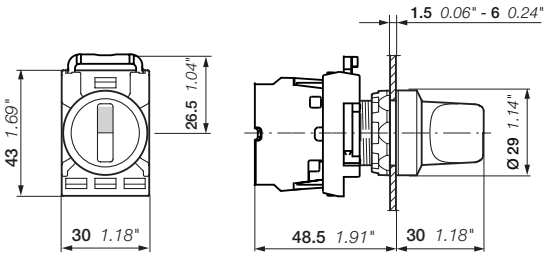


M2SS1-10U

Operating principle	Color	Bezel	Type	Order code	Pkg qty	Weight (1 pce) kg
	● Red	Black plastic	M2SS1-10R	1SFA611200R1001	10	0.015
		Chrome plastic	M2SS1-20R	1SFA611200R2001	10	0.015
		Chrome metal	M2SS1-30R	1SFA611200R3001	10	0.024
	● Black	Black plastic	M2SS1-10B	1SFA611200R1006	10	0.015
		Chrome plastic	M2SS1-20B	1SFA611200R2006	10	0.015
		Chrome metal	M2SS1-30B	1SFA611200R3006	10	0.024
	● Grey	Black plastic	M2SS1-10U	1SFA611200R1007	10	0.015
		Chrome plastic	M2SS1-20U	1SFA611200R2007	10	0.015
	● Red	Black plastic	M2SS2-10R	1SFA611201R1001	10	0.015
		Chrome plastic	M2SS2-20R	1SFA611201R2001	10	0.015
		Chrome metal	M2SS2-30R	1SFA611201R3001	10	0.024
	● Black	Black plastic	M2SS2-10B	1SFA611201R1006	10	0.015
		Chrome plastic	M2SS2-20B	1SFA611201R2006	10	0.015
		Chrome metal	M2SS2-30B	1SFA611201R3006	10	0.024
	● Grey	Black plastic	M2SS2-10U	1SFA611201R1007	10	0.015
		Chrome plastic	M2SS2-20U	1SFA611201R2007	10	0.015
		Chrome metal	M2SS2-30U	1SFA611201R3007	10	0.024
	● Red	Black plastic	M2SS3-10R	1SFA611202R1001	10	0.015
		Chrome plastic	M2SS3-20R	1SFA611202R2001	10	0.015
		Chrome metal	M2SS3-30R	1SFA611202R3001	10	0.024
	● Black	Black plastic	M2SS3-10B	1SFA611202R1006	10	0.015
		Chrome plastic	M2SS3-20B	1SFA611202R2006	10	0.015
		Chrome metal	M2SS3-30B	1SFA611202R3006	10	0.024
	● Grey	Black plastic	M2SS3-10U	1SFA611202R1007	10	0.015
		Chrome plastic	M2SS3-20U	1SFA611202R2007	10	0.015

Contacts actuated





M2SS

Dimensions (mm, inches)

Modular plastic range

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



M2SS4-10R



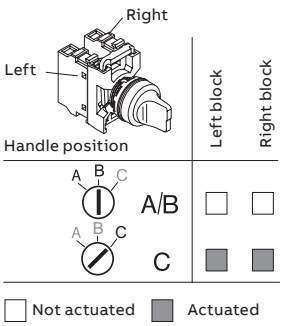
M2SS4-30B

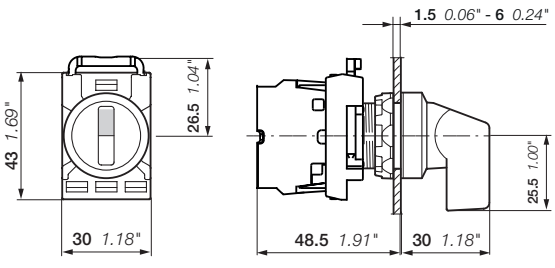


M2SS4-10U

Operating principle	Color	Bezel	Type	Order code	Pkg qty	Weight (1 pce) kg
B C	Red	Black plastic	M2SS4-10R	1SFA611203R1001	10	0.018
		Chrome plastic	M2SS4-20R	1SFA611203R2001	10	0.018
	Black	Black plastic	M2SS4-10B	1SFA611203R1006	10	0.018
		Chrome plastic	M2SS4-20B	1SFA611203R2006	10	0.018
		Chrome metal	M2SS4-30B	1SFA611203R3006	10	0.027
	Grey	Black plastic	M2SS4-10U	1SFA611203R1007	10	0.018
		Chrome plastic	M2SS4-20U	1SFA611203R2007	10	0.018
A C	Red	Black plastic	M2SS5-10R	1SFA611204R1001	10	0.018
		Chrome plastic	M2SS5-20R	1SFA611204R2001	10	0.018
		Chrome metal	M2SS5-30R	1SFA611204R3001	10	0.027
	Black	Black plastic	M2SS5-10B	1SFA611204R1006	10	0.018
		Chrome plastic	M2SS5-20B	1SFA611204R2006	10	0.018
		Chrome metal	M2SS5-30B	1SFA611204R3006	10	0.027
	Grey	Black plastic	M2SS5-10U	1SFA611204R1007	10	0.018
		Chrome plastic	M2SS5-20U	1SFA611204R2007	10	0.018
B C	Red	Black plastic	M2SS6-10R	1SFA611205R1001	10	0.018
	Black	Black plastic	M2SS6-10B	1SFA611205R1006	10	0.018
		Chrome plastic	M2SS6-20B	1SFA611205R2006	10	0.018
		Chrome metal	M2SS6-30B	1SFA611205R3006	10	0.027
	Grey	Black plastic	M2SS6-10U	1SFA611205R1007	10	0.018
		Chrome plastic	M2SS6-20U	1SFA611205R2007	10	0.018

Contacts actuated





M2SS

Dimensions (mm, inches)

Modular plastic range

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



M3SS1-30R



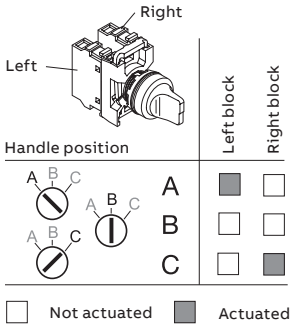
M3SS2-10B

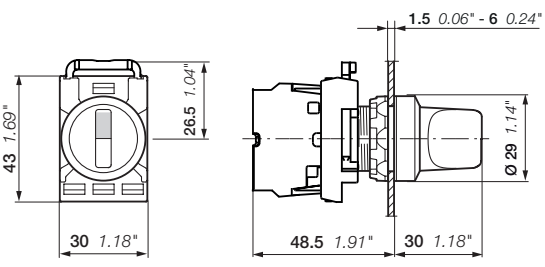


M3SS3-10U

Operating principle	Color	Bezel	Type	Order code	Pkg qty	Weight (1 pce) kg
	● Red	Black plastic	M3SS1-10R	1SFA611210R1001	10	0.015
		Chrome plastic	M3SS1-20R	1SFA611210R2001	10	0.015
		Chrome metal	M3SS1-30R	1SFA611210R3001	10	0.024
	● Black	Black plastic	M3SS1-10B	1SFA611210R1006	10	0.015
		Chrome plastic	M3SS1-20B	1SFA611210R2006	10	0.015
		Chrome metal	M3SS1-30B	1SFA611210R3006	10	0.024
	● Grey	Black plastic	M3SS1-10U	1SFA611210R1007	10	0.015
		Chrome plastic	M3SS1-20U	1SFA611210R2007	10	0.015
		Chrome metal	M3SS1-30U	1SFA611210R3007	10	0.024
	● Red	Black plastic	M3SS2-10R	1SFA611211R1001	10	0.015
		Chrome plastic	M3SS2-20R	1SFA611211R2001	10	0.015
		Chrome metal	M3SS2-30R	1SFA611211R3001	10	0.024
	● Black	Black plastic	M3SS2-10B	1SFA611211R1006	10	0.015
		Chrome plastic	M3SS2-20B	1SFA611211R2006	10	0.015
		Chrome metal	M3SS2-30B	1SFA611211R3006	10	0.024
	● Grey	Black plastic	M3SS2-10U	1SFA611211R1007	10	0.015
		Chrome plastic	M3SS2-20U	1SFA611211R2007	10	0.015
	● Red	Black plastic	M3SS3-10R	1SFA611212R1001	10	0.015
	● Black	Black plastic	M3SS3-10B	1SFA611212R1006	10	0.015
		Chrome plastic	M3SS3-20B	1SFA611212R2006	10	0.015
		Chrome metal	M3SS3-30B	1SFA611212R3006	10	0.024
	● Grey	Black plastic	M3SS3-10U	1SFA611212R1007	10	0.015
		Chrome plastic	M3SS3-20U	1SFA611212R2007	10	0.015
	● Red	Black plastic	M3SS7-10R	1SFA611216R1001	10	0.015
		Chrome plastic	M3SS7-20R	1SFA611216R2001	10	0.015
	● Black	Black plastic	M3SS7-10B	1SFA611216R1006	10	0.015
		Chrome plastic	M3SS7-20B	1SFA611216R2006	10	0.015
		Chrome metal	M3SS7-30B	1SFA611216R3006	10	0.024
	● Grey	Black plastic	M3SS7-10U	1SFA611216R1007	10	0.015

Contacts actuated





M3SS

Dimensions (mm, inches)

Modular plastic range

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



M3SS4-10R



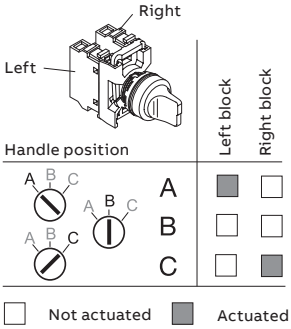
M3SS5-30B

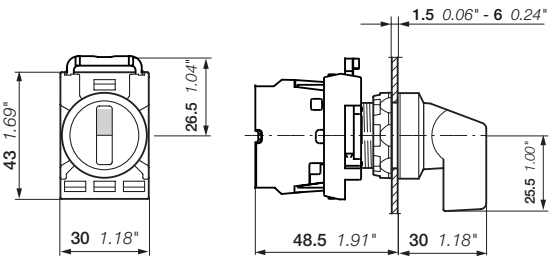


M3SS6-10U

Operating principle	Color	Bezel	Type	Order code	Pkg qty	Weight (1 pce) kg
	● Red	Black plastic	M3SS4-10R	1SFA611213R1001	10	0.018
		Chrome plastic	M3SS4-20R	1SFA611213R2001	10	0.018
	● Black	Black plastic	M3SS4-10B	1SFA611213R1006	10	0.018
		Chrome plastic	M3SS4-20B	1SFA611213R2006	10	0.018
		Chrome metal	M3SS4-30B	1SFA611213R3006	10	0.027
	● Grey	Black plastic	M3SS4-10U	1SFA611213R1007	10	0.018
		Chrome plastic	M3SS4-20U	1SFA611213R2007	10	0.018
	● Red	Black plastic	M3SS5-10R	1SFA611214R1001	10	0.018
		Chrome metal	M3SS5-30R	1SFA611214R3001	10	0.018
	● Black	Black plastic	M3SS5-10B	1SFA611214R1006	10	0.018
		Chrome plastic	M3SS5-20B	1SFA611214R2006	10	0.018
		Chrome metal	M3SS5-30B	1SFA611214R3006	10	0.027
	● Grey	Black plastic	M3SS5-10U	1SFA611214R1007	10	0.018
		Chrome plastic	M3SS5-20U	1SFA611214R2007	10	0.018
	● Red	Black plastic	M3SS6-10R	1SFA611215R1001	10	0.018
	● Black	Black plastic	M3SS6-10B	1SFA611215R1006	10	0.018
		Chrome plastic	M3SS6-20B	1SFA611215R2006	10	0.018
		Chrome metal	M3SS6-30B	1SFA611215R3006	10	0.027
	● Grey	Black plastic	M3SS6-10U	1SFA611215R1007	10	0.018
	● Red	Black plastic	M3SS8-10R	1SFA611217R1001	10	0.018
	● Black	Black plastic	M3SS8-10B	1SFA611217R1006	10	0.018
		Chrome plastic	M3SS8-20B	1SFA611217R2006	10	0.018
		Chrome metal	M3SS8-30B	1SFA611217R3006	10	0.027
	● Grey	Black plastic	M3SS8-10U	1SFA611217R1007	10	0.018

Contacts actuated





M3SS

Dimensions (mm, inches)

Modular plastic range

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



M3SSC1-10B

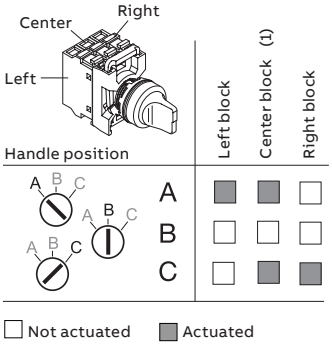


M3SSC3-30B

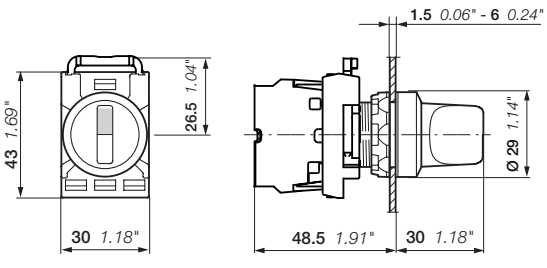
Center block operating

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

Contacts actuated



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



M3SSC

Dimensions (mm, inches)

Modular plastic range

Illuminated selector switches - 2-position - Short handle



M2SS1-11R



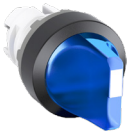
1SFC151145V0001

M2SS1-31G



1SFC151140V0001

M2SS2-11Y



1SFC151142V0001

M2SS2-11L

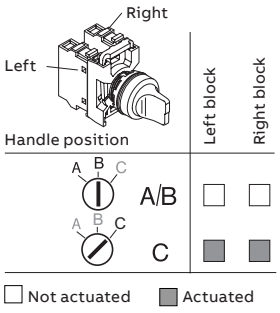


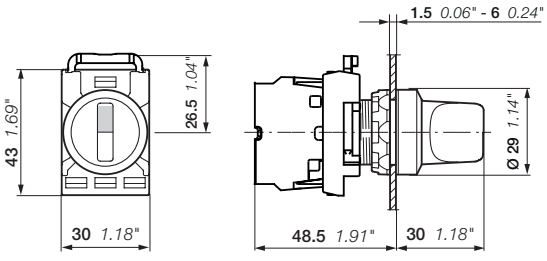
1SFC151143V0001

M2SS3-11C

Operating principle	Color	Bezel	Type	Order code	Pkg qty	Weight (1 pce) kg
B C	Red	Black plastic	M2SS1-11R	1SFA611200R1101	10	0.015
		Chrome plastic	M2SS1-21R	1SFA611200R2101	10	0.015
		Chrome metal	M2SS1-31R	1SFA611200R3101	10	0.024
	Green	Black plastic	M2SS1-11G	1SFA611200R1102	10	0.015
		Chrome plastic	M2SS1-21G	1SFA611200R2102	10	0.015
		Chrome metal	M2SS1-31G	1SFA611200R3102	10	0.024
	Yellow	Black plastic	M2SS1-11Y	1SFA611200R1103	10	0.015
		Chrome plastic	M2SS1-21Y	1SFA611200R2103	10	0.015
		Chrome metal	M2SS1-31Y	1SFA611200R3103	10	0.024
	Blue	Black plastic	M2SS1-11L	1SFA611200R1104	10	0.015
		Chrome plastic	M2SS1-21L	1SFA611200R2104	10	0.015
	Clear	Black plastic	M2SS1-11C	1SFA611200R1108	10	0.015
		Chrome plastic	M2SS1-21C	1SFA611200R2108	10	0.015
		Chrome metal	M2SS1-31C	1SFA611200R3108	10	0.024
A C	Red	Black plastic	M2SS2-11R	1SFA611201R1101	10	0.015
		Chrome plastic	M2SS2-21R	1SFA611201R2101	10	0.015
		Chrome metal	M2SS2-31R	1SFA611201R3101	10	0.024
	Green	Black plastic	M2SS2-11G	1SFA611201R1102	10	0.015
		Chrome plastic	M2SS2-21G	1SFA611201R2102	10	0.015
		Chrome metal	M2SS2-31G	1SFA611201R3102	10	0.024
	Yellow	Black plastic	M2SS2-11Y	1SFA611201R1103	10	0.015
		Chrome plastic	M2SS2-21Y	1SFA611201R2103	10	0.015
		Chrome metal	M2SS2-31Y	1SFA611201R3103	10	0.024
	Blue	Black plastic	M2SS2-11L	1SFA611201R1104	10	0.015
		Chrome plastic	M2SS2-21L	1SFA611201R2104	10	0.015
		Chrome metal	M2SS2-31L	1SFA611201R3104	10	0.024
	Clear	Black plastic	M2SS2-11C	1SFA611201R1108	10	0.015
		Chrome plastic	M2SS2-21C	1SFA611201R2108	10	0.015
		Chrome metal	M2SS2-31C	1SFA611201R3108	10	0.024
B C	Red	Black plastic	M2SS3-11R	1SFA611202R1101	10	0.015
		Chrome plastic	M2SS3-21R	1SFA611202R2101	10	0.015
		Chrome metal	M2SS3-31R	1SFA611202R3101	10	0.024
	Green	Black plastic	M2SS3-11G	1SFA611202R1102	10	0.015
		Chrome plastic	M2SS3-21G	1SFA611202R2102	10	0.015
		Chrome metal	M2SS3-31G	1SFA611202R3102	10	0.024
	Yellow	Black plastic	M2SS3-11Y	1SFA611202R1103	10	0.015
		Chrome metal	M2SS3-31Y	1SFA611202R3103	10	0.024
	Blue	Black plastic	M2SS3-11L	1SFA611202R1104	10	0.015
	Clear	Black plastic	M2SS3-11C	1SFA611202R1108	10	0.015
		Chrome metal	M2SS3-31C	1SFA611202R3108	10	0.024

Contacts actuated





M2SS

Dimensions (mm, inches)

Modular plastic range

Illuminated selector switches - 2-position - Long handle



M2SS4-11R



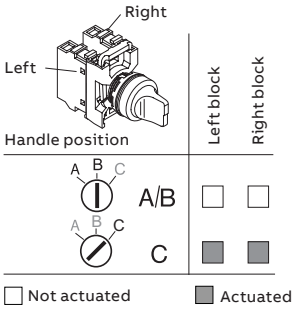
M2SS4-31G

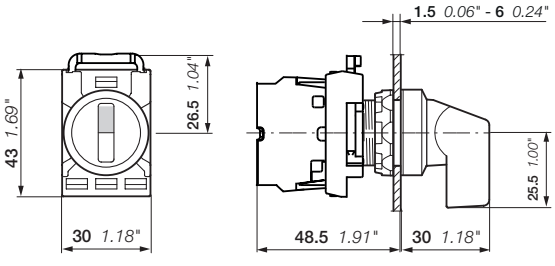


M2SS5-11Y

Operating principle	Color	Bezel	Type	Order code	Pkg qty	Weight (1 pce) kg
B C	Red	Black plastic	M2SS4-11R	1SFA611203R1101	10	0.018
		Chrome plastic	M2SS4-21R	1SFA611203R2101	10	0.018
	Green	Black plastic	M2SS4-11G	1SFA611203R1102	10	0.018
		Chrome plastic	M2SS4-21G	1SFA611203R2102	10	0.018
		Chrome metal	M2SS4-31G	1SFA611203R3102	10	0.027
	Yellow	Black plastic	M2SS4-11Y	1SFA611203R1103	10	0.018
		Chrome plastic	M2SS4-21Y	1SFA611203R2103	10	0.018
	Blue	Black plastic	M2SS4-11L	1SFA611203R1104	10	0.018
		Chrome plastic	M2SS4-21L	1SFA611203R2104	10	0.018
	Clear	Black plastic	M2SS4-11C	1SFA611203R1108	10	0.018
		Chrome plastic	M2SS4-21C	1SFA611203R2108	10	0.018
		Chrome metal	M2SS4-31C	1SFA611203R3108	10	0.027
A C	Red	Black plastic	M2SS5-11R	1SFA611204R1101	10	0.018
		Chrome plastic	M2SS5-21R	1SFA611204R2101	10	0.018
		Chrome metal	M2SS5-31R	1SFA611204R3101	10	0.027
	Green	Black plastic	M2SS5-11G	1SFA611204R1102	10	0.018
		Chrome plastic	M2SS5-21G	1SFA611204R2102	10	0.018
		Chrome metal	M2SS5-31G	1SFA611204R3102	10	0.027
	Yellow	Black plastic	M2SS5-11Y	1SFA611204R1103	10	0.018
		Chrome plastic	M2SS5-21Y	1SFA611204R2103	10	0.018
		Chrome metal	M2SS5-31Y	1SFA611204R3103	10	0.027
	Blue	Black plastic	M2SS5-11L	1SFA611204R1104	10	0.018
		Chrome plastic	M2SS5-21L	1SFA611204R2104	10	0.018
		Chrome metal	M2SS5-31L	1SFA611204R3104	10	0.027
	Clear	Black plastic	M2SS5-11C	1SFA611204R1108	10	0.018
		Chrome plastic	M2SS5-21C	1SFA611204R2108	10	0.018
		Chrome metal	M2SS5-31C	1SFA611204R3108	10	0.027
B C	Red	Black plastic	M2SS6-11R	1SFA611205R1101	10	0.018
	Green	Black plastic	M2SS6-11G	1SFA611205R1102	10	0.018
	Yellow	Black plastic	M2SS6-11Y	1SFA611205R1103	10	0.018
	Blue	Black plastic	M2SS6-11L	1SFA611205R1104	10	0.018
	Clear	Black plastic	M2SS6-11C	1SFA611205R1108	10	0.018
		Chrome metal	M2SS6-31C	1SFA611205R3108	10	0.027

Contacts actuated





M2SS

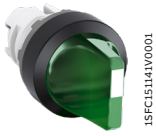
Dimensions (mm, inches)

Modular plastic range

Illuminated selector switches - 3-position - Short handle



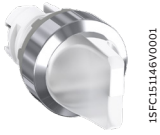
M2SS1-11R



M2SS1-11G



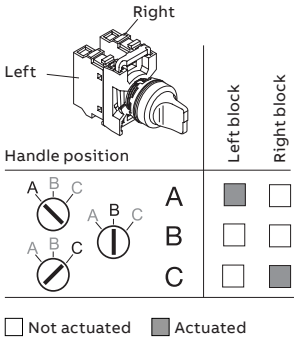
M3SS2-11Y



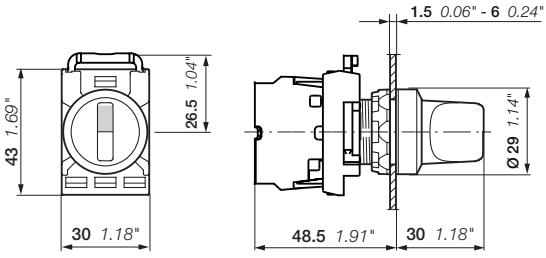
M3SS3-31C

Operating principle	Color	Bezel	Type	Order code	Pkg qty	Weight (1 pce) kg
	Red	Black plastic	M3SS1-11R	1SFA611210R1101	10	0.015
		Chrome plastic	M3SS1-21R	1SFA611210R2101	10	0.015
		Chrome metal	M3SS1-31R	1SFA611210R3101	10	0.024
	Green	Black plastic	M3SS1-11G	1SFA611210R1102	10	0.015
		Chrome plastic	M3SS1-21G	1SFA611210R2102	10	0.015
		Chrome metal	M3SS1-31G	1SFA611210R3102	10	0.024
	Yellow	Black plastic	M3SS1-11Y	1SFA611210R1103	10	0.015
		Chrome plastic	M3SS1-21Y	1SFA611210R2103	10	0.015
		Chrome metal	M3SS1-31Y	1SFA611210R3103	10	0.024
	Blue	Black plastic	M3SS1-11L	1SFA611210R1104	10	0.015
		Chrome plastic	M3SS1-21L	1SFA611210R2104	10	0.015
		Chrome metal	M3SS1-31L	1SFA611210R3104	10	0.024
	Clear	Black plastic	M3SS1-11C	1SFA611210R1108	10	0.015
		Chrome plastic	M3SS1-21C	1SFA611210R2108	10	0.015
		Chrome metal	M3SS1-31C	1SFA611210R3108	10	0.024
	Red	Black plastic	M3SS2-11R	1SFA611211R1101	10	0.015
		Chrome plastic	M3SS2-21R	1SFA611211R2101	10	0.015
		Chrome metal	M3SS2-31R	1SFA611211R3101	10	0.024
	Green	Black plastic	M3SS2-11G	1SFA611211R1102	10	0.015
		Chrome plastic	M3SS2-21G	1SFA611211R2102	10	0.015
		Chrome metal	M3SS2-31G	1SFA611211R3102	10	0.024
	Yellow	Black plastic	M3SS2-11Y	1SFA611211R1103	10	0.015
		Chrome plastic	M3SS2-21Y	1SFA611211R2103	10	0.015
	Blue	Black plastic	M3SS2-11L	1SFA611211R1104	10	0.015
		Chrome plastic	M3SS2-21L	1SFA611211R2104	10	0.015
		Chrome metal	M3SS2-31L	1SFA611211R3104	10	0.024
	Clear	Black plastic	M3SS2-11C	1SFA611211R1108	10	0.015
		Chrome plastic	M3SS2-21C	1SFA611211R2108	10	0.015
		Chrome metal	M3SS2-31C	1SFA611211R3108	10	0.024
	Red	Black plastic	M3SS3-11R	1SFA611212R1101	10	0.015
		Chrome plastic	M3SS3-21R	1SFA611212R2101	10	0.015
	Green	Black plastic	M3SS3-11G	1SFA611212R1102	10	0.015
		Chrome plastic	M3SS3-21G	1SFA611212R2102	10	0.015
	Yellow	Black plastic	M3SS3-11Y	1SFA611212R1103	10	0.015
	Blue	Black plastic	M3SS3-11L	1SFA611212R1104	10	0.015
	Clear	Black plastic	M3SS3-11C	1SFA611212R1108	10	0.015
		Chrome plastic	M3SS3-21C	1SFA611212R2108	10	0.015
		Chrome metal	M3SS3-31C	1SFA611212R3108	10	0.024
	Red	Black plastic	M3SS7-11R	1SFA611216R1101	10	0.015
	Green	Black plastic	M3SS7-11G	1SFA611216R1102	10	0.015
		Chrome plastic	M3SS7-21G	1SFA611216R2102	10	0.015
		Chrome metal	M3SS7-31G	1SFA611216R3102	10	0.024
	Yellow	Black plastic	M3SS7-11Y	1SFA611216R1103	10	0.015
	Blue	Black plastic	M3SS7-11L	1SFA611216R1104	10	0.015
		Chrome plastic	M3SS7-21L	1SFA611216R2104	10	0.015
	Clear	Black plastic	M3SS7-11C	1SFA611216R1108	10	0.015
		Chrome plastic	M3SS7-21C	1SFA611216R2108	10	0.015
		Chrome metal	M3SS7-31C	1SFA611216R3108	10	0.024

Contacts actuated



☐ Not actuated ■ Actuated



M3SS

Dimensions (mm, inches)

Modular plastic range

Illuminated selector switches - 3-position - Long handle



M3SS4-11R



M3SS4-11G

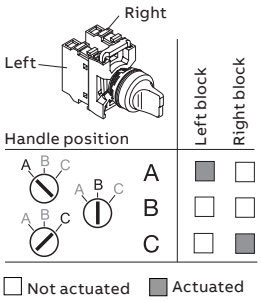


M3SS4-11Y

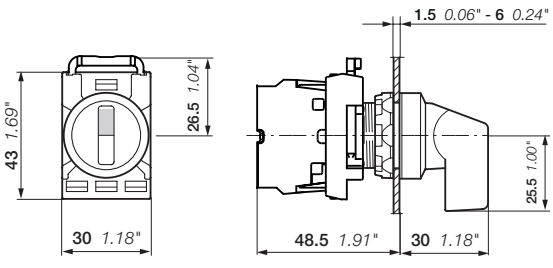


M3SS4-31C

Contacts actuated



Operating principle	Color	Bezel	Type	Order code	Pkg qty	Weight (1 pce) kg
	Red	Black plastic	M3SS4-11R	1SFA611213R1101	10	0.018
		Chrome plastic	M3SS4-21R	1SFA611213R2101	10	0.018
		Chrome metal	M3SS4-31R	1SFA611213R3101	10	0.027
	Green	Black plastic	M3SS4-11G	1SFA611213R1102	10	0.018
		Chrome plastic	M3SS4-21G	1SFA611213R2102	10	0.018
	Yellow	Black plastic	M3SS4-11Y	1SFA611213R1103	10	0.018
		Chrome plastic	M3SS4-21Y	1SFA611213R2103	10	0.018
	Blue	Black plastic	M3SS4-11L	1SFA611213R1104	10	0.018
		Chrome plastic	M3SS4-21L	1SFA611213R2104	10	0.018
	Clear	Black plastic	M3SS4-11C	1SFA611213R1108	10	0.018
		Chrome plastic	M3SS4-21C	1SFA611213R2108	10	0.018
		Chrome metal	M3SS4-31C	1SFA611213R3108	10	0.027
	Red	Black plastic	M3SS5-11R	1SFA611214R1101	10	0.018
		Chrome plastic	M3SS5-21R	1SFA611214R2101	10	0.018
	Green	Black plastic	M3SS5-11G	1SFA611214R1102	10	0.018
		Chrome plastic	M3SS5-21G	1SFA611214R2102	10	0.018
		Chrome metal	M3SS5-31G	1SFA611214R3102	10	0.027
	Yellow	Black plastic	M3SS5-11Y	1SFA611214R1103	10	0.018
		Chrome plastic	M3SS5-21Y	1SFA611214R2103	10	0.018
	Blue	Black plastic	M3SS5-11L	1SFA611214R1104	10	0.018
		Chrome plastic	M3SS5-21L	1SFA611214R2104	10	0.018
	Clear	Black plastic	M3SS5-11C	1SFA611214R1108	10	0.018
		Chrome plastic	M3SS5-21C	1SFA611214R2108	10	0.018
		Chrome metal	M3SS5-31C	1SFA611214R3108	10	0.027
	Red	Black plastic	M3SS6-11R	1SFA611215R1101	10	0.018
	Green	Black plastic	M3SS6-11G	1SFA611215R1102	10	0.018
		Chrome plastic	M3SS6-21G	1SFA611215R2102	10	0.018
	Yellow	Black plastic	M3SS6-11Y	1SFA611215R1103	10	0.018
		Chrome plastic	M3SS6-21Y	1SFA611215R2103	10	0.018
	Blue	Black plastic	M3SS6-11L	1SFA611215R1104	10	0.018
		Chrome metal	M3SS6-31L	1SFA611215R3104	10	0.027
	Clear	Black plastic	M3SS6-11C	1SFA611215R1108	10	0.018
	Red	Black plastic	M3SS8-11R	1SFA611217R1101	10	0.018
		Chrome plastic	M3SS8-21R	1SFA611217R2101	10	0.018
		Chrome metal	M3SS8-31R	1SFA611217R3101	10	0.027
	Green	Black plastic	M3SS8-11G	1SFA611217R1102	10	0.018
		Chrome plastic	M3SS8-21G	1SFA611217R2102	10	0.018
		Chrome metal	M3SS8-31G	1SFA611217R3102	10	0.027
	Yellow	Black plastic	M3SS8-11Y	1SFA611217R1103	10	0.018
	Blue	Black plastic	M3SS8-11L	1SFA611217R1104	10	0.018
	Clear	Black plastic	M3SS8-11C	1SFA611217R1108	10	0.018



M3SS

Dimensions (mm, inches)

Modular plastic range

Key-operated selector switches - 2-position



M2SSK1-101

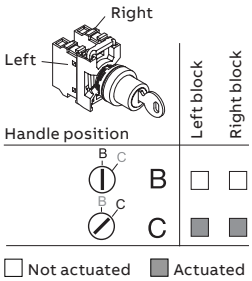
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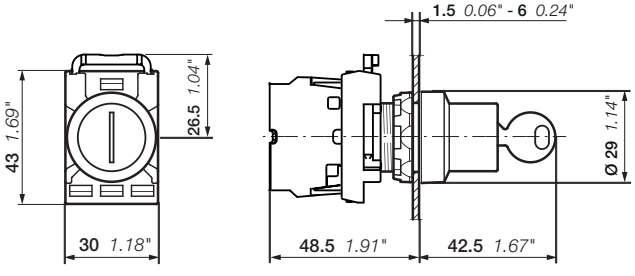
Key-operated selector switches are delivered in black color.

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 plastic	M2SSK1-201	1SFA611280R2001	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 plastic	M2SSK2-201	1SFA611281R2001	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 plastic	M2SSK2-203	1SFA611281R2003	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





M2SSK

Dimensions (mm, inches)

Modular plastic range

Key-operated selector switches - 3-position



M2SSK1-101

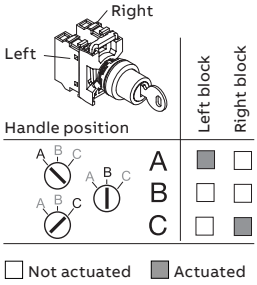
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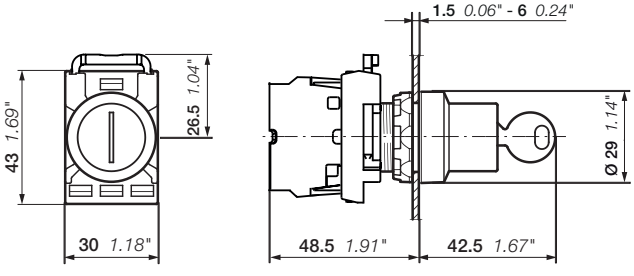
Key-operated selector switches are delivered in black color.

Operating principle	key	Bezel	Type	Order code	Pkg qty	Weight (1 pce) kg
 Key can be removed in all positions	Key code 455	Black plastic	M3SSK1-101	1SFA611283R1001	1	0.045
		Chrome plastic	M3SSK1-201	1SFA611283R2001	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
	Key code 3433-E	Black plastic	M3SSK2-103	1SFA611284R1003	1	0.045
	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 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 3433-E	Black plastic	M3SSK5-103	1SFA611287R1003	1	0.045
 Key can be removed in A only	Key code 455	Black plastic	M3SSK6-101	1SFA611288R1001	1	0.045

(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.

Contacts actuated





M3SSK

Dimensions (mm, inches)

Modular plastic range

Potentiometers



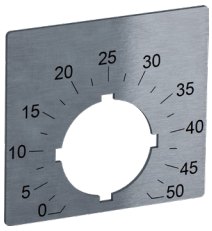
MT-110B

Description

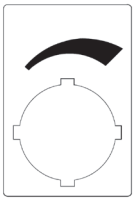
Black knob with integrated position indication and marking in white.

Bezel		Type	Order code	Pkg qty	Weight (1 pce) kg
Knob with resistor 5 kΩ					
Black plastic		MT-105B	1SFA611410R1056	1	0.040
Chrome plastic		MT-205B	1SFA611410R2056	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 plastic		MT-210B	1SFA611410R2106	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 plastic		MT-250B	1SFA611410R2506	1	0.040
Chrome metal		MT-350B	1SFA611410R3506	1	0.049
Knob without resistor (1)					
Black plastic		MT-1B	1SFA611410R1006	10	0.022
Chrome plastic		MT-2B	1SFA611410R2006	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

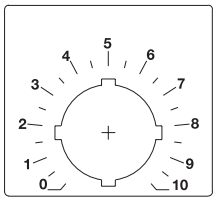
(1) Knob without resistor: for shaft diameter 6-6.35 mm. Min. shaft length 20 mm.



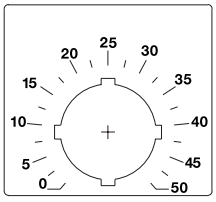
MA6-1252



SK615562-87



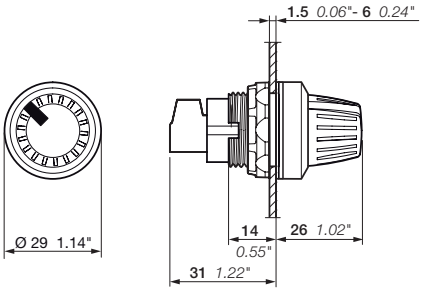
SK615562-88



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



KPR1-101L

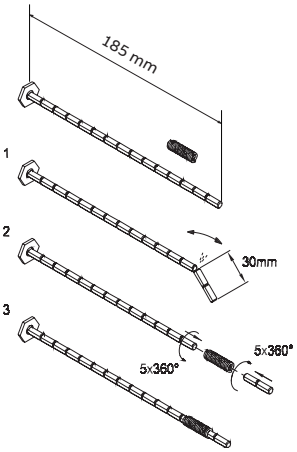


KPR1-104B

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	KPR1-100R	1SFA616160R1001	10	0.020
● Green	No text	KPR1-100G	1SFA616160R1002	10	0.020
	I	KPR1-102G	1SFA616160R1022	10	0.020
	II	KPR1-103G	1SFA616160R1032	10	0.020
● Yellow	No text	KPR1-100Y	1SFA616160R1003	10	0.020
● Blue	No text	KPR1-100L	1SFA616160R1004	10	0.020
	R	KPR1-101L	1SFA616160R1014	10	0.020
○ White	No text	KPR1-100W	1SFA616160R1005	10	0.020
	R	KPR1-101W	1SFA616160R1015	10	0.020
	I	KPR1-102W	1SFA616160R1025	10	0.020
	II	KPR1-103W	1SFA616160R1035	10	0.020
● Black	No text	KPR1-100B	1SFA616160R1006	10	0.020
	RESET	KPR1-104B	1SFA616160R1046	10	0.020
Extended reset pushbutton					
● Red	No text	KPR2-100R	1SFA616161R1001	10	0.021
	O	KPR2-105R	1SFA616161R1051	10	0.021
● Blue	No text	KPR2-100L	1SFA616161R1005	10	0.021
● Black	No text	KPR2-100B	1SFA616161R1006	10	0.021
	O	KPR2-105B	1SFA616161R1056	10	0.021



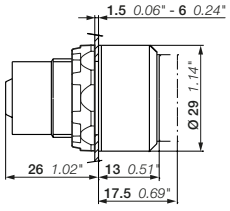
KA1-8046



KA1-8047

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



1SFC151225V0001

KPR3-100R



1SFC151222V0001

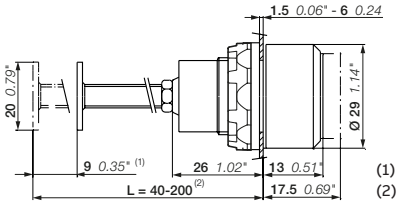
KPR3-104B

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	10	0.027
● Green	No text	KPR3-100G	1SFA616162R1002	10	0.027
	II	KPR3-103G	1SFA616162R1032	10	0.027
	START	KPR3-106G	1SFA616162R1062	10	0.027
● Yellow	No text	KPR3-100Y	1SFA616162R1003	10	0.027
● Blue	No text	KPR3-100L	1SFA616162R1004	10	0.027
	R	KPR3-101L	1SFA616162R1014	10	0.027
○ White	No text	KPR3-100W	1SFA616162R1005	10	0.027
	R	KPR3-101W	1SFA616162R1015	10	0.027
	I	KPR3-102W	1SFA616162R1025	10	0.027
● Black	No text	KPR3-100B	1SFA616162R1006	10	0.027
	RESET	KPR3-104B	1SFA616162R1046	10	0.027
Extended reset pushbutton					
● Red	No text	KPR4-100R	1SFA616163R1001	10	0.028
	O	KPR4-105R	1SFA616163R1051	10	0.028
○ White	No text	KPR4-100W	1SFA616163R1005	10	0.028
● Black	No text	KPR4-100B	1SFA616163R1006	10	0.028
	O	KPR4-105B	1SFA616163R1056	10	0.028

Note: Flexible joint not included.



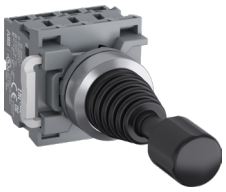
(1) Length of stroke
(2) Can be cut to desired length

KPR3, KPR4

Dimensions (mm, inches)

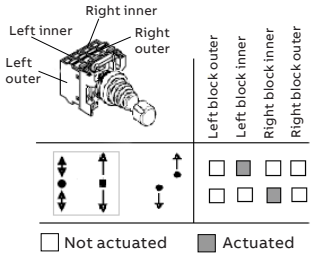
Modular plastic range

Joysticks

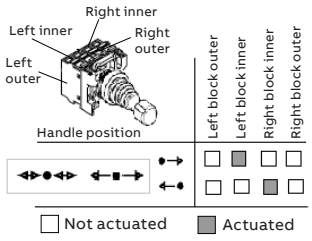


MJS1-60B

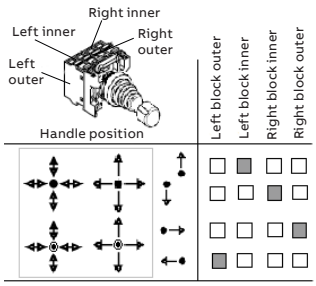
Contacts actuated



Contacts actuated

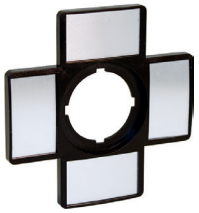


Contacts actuated





MA1-8138



MA1-8137

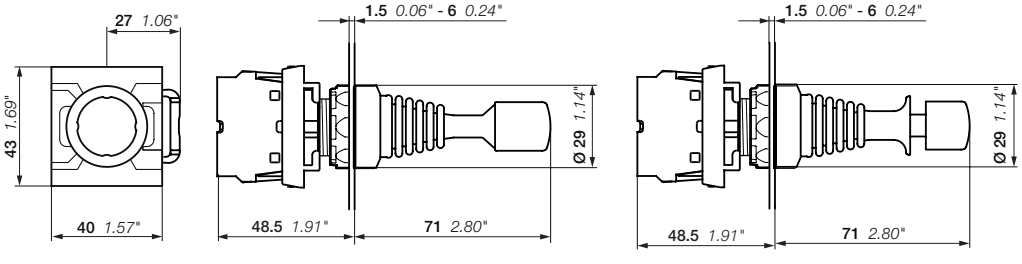
Description

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

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

without latching function

with latching function

Modular plastic range

Toggle switches



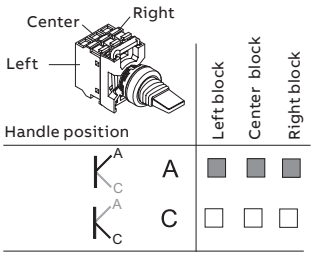
MTS1-10B



MTS1-30B

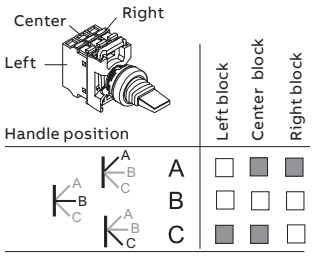
Operating principle	Bezel	Type	Order code	Pkg qty	Weight (1 pce) kg
2-position					
	Black plastic	MTS1-10B	1SFA611300R1006	10	0.014
	Chrome plastic	MTS1-20B	1SFA611300R2006	10	0.014
	Chrome metal	MTS1-30B	1SFA611300R3006	10	0.023
3-position					
	Black plastic	MTS3-10B	1SFA611302R1006	10	0.014
	Chrome plastic	MTS3-20B	1SFA611302R2006	10	0.014
	Chrome metal	MTS3-30B	1SFA611302R3006	10	0.023
	Black plastic	MTS2-10B	1SFA611301R1006	10	0.014
	Chrome plastic	MTS2-20B	1SFA611301R2006	10	0.014
	Chrome metal	MTS2-30B	1SFA611301R3006	10	0.023

Contacts actuated, 2-position

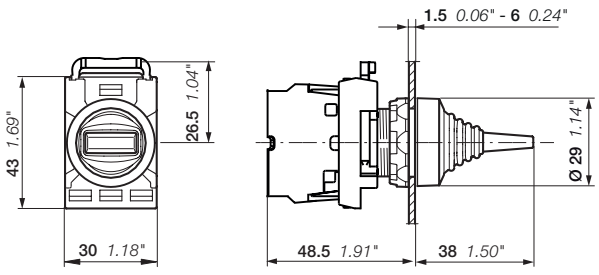


☐ Not actuated ■ Actuated

Contacts actuated, 3-position



☐ Not actuated ■ Actuated



MTS

Dimensions (mm, inches)

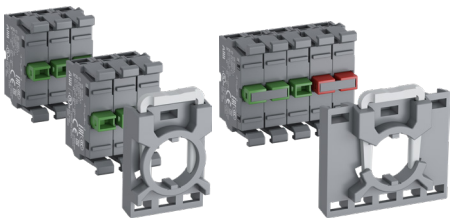
Modular plastic range

Contact block configutation

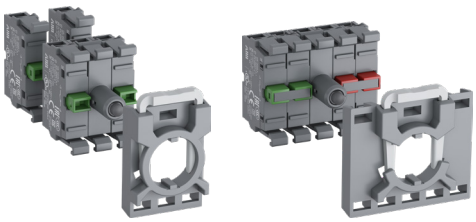
Pushbuttons - Heavy duty pushbuttons (1) - Mushrooms pushbuttons



Non-illuminated



Illuminated

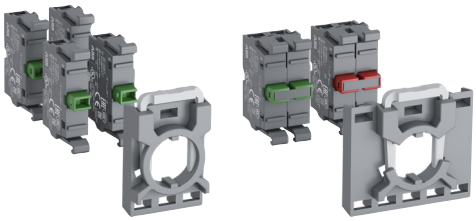


(1) Holder included for heavy duty pushbuttons

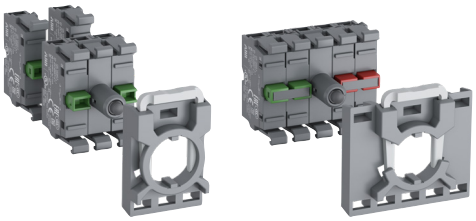
Double pushbuttons



Non-illuminated



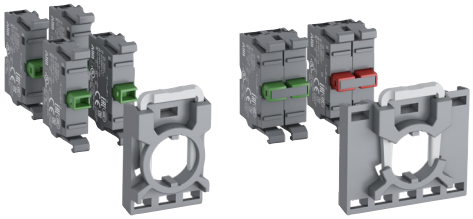
Illuminated



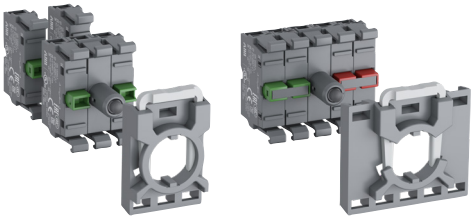
Selector switches



Non-illuminated



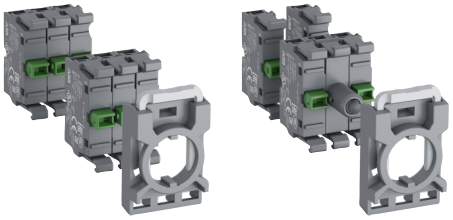
Illuminated



Emergency stop pushbuttons - Machine stop pushbuttons

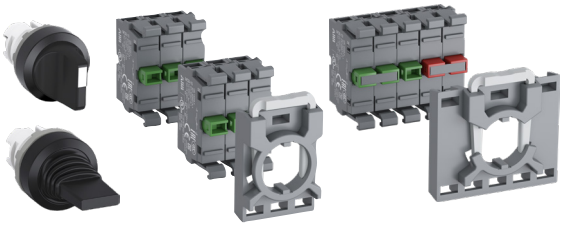


Non-illuminated **Illuminated**



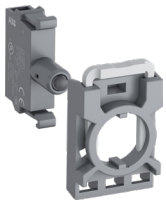
Toggle switches - Center block operating selector switches

Non-illuminated

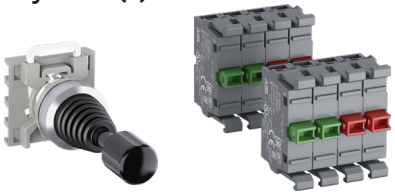


Pilot lights





Joysticks (2)



Note: locking nut included with all operators.

(2) Holder is included for joystick.

1SFC151055S0201

Modular plastic range

Holders and contact blocks for front mounting



MCBH-00



MCBH5-00



MCB-10



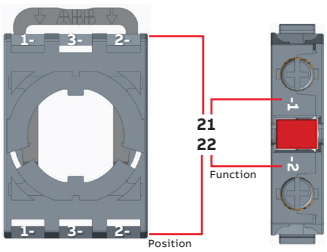
MCB-02



MCBL-01

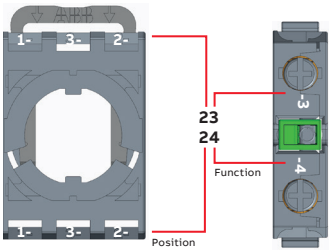
Description	Contacts	Type	Order code	Pkg qty	Weight (1 pce)
					kg
Holders					
3-position	– –	MCBH-00	1SFA611605R1100	10	0.006
5-position	– –	MCBH5-00	1SFA611601R1100	10	0.008
Single contact blocks					
For 3 & 5-position holder	1 0	MCB-10	1SFA611610R1001	10	0.013
	0 1	MCB-01	1SFA611610R1010	10	0.013
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
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: micro switch block MCBL-01 are not direct opening and does not fulfill IEC60947-5-5 for emergency stop devices.
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.



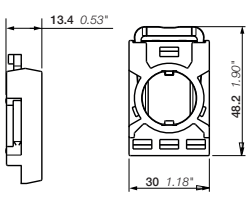
Combined markings

11	31	21
12	32	22

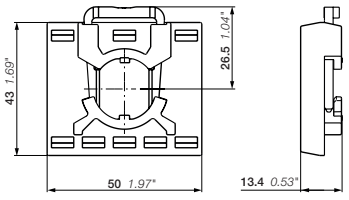


Combined markings

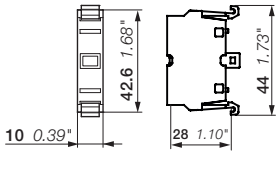
13	33	23
14	34	24



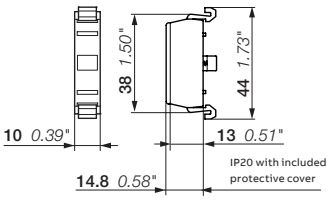
MCBH



MCBH5



MCB



MCBL

Dimensions (mm, inches)

Modular plastic range

LED blocks for front mounting



MLBL-00W

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							
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							
Red	10.0	620	200	MLBL-04R	1SFA611621R1041	10	0.012
Green	10.0	520	1200	MLBL-04G	1SFA611621R1042	10	0.012
Yellow	10.0	588	250	MLBL-04Y	1SFA611621R1043	10	0.012
Blue	10.0	468	400	MLBL-04L	1SFA611621R1044	10	0.012
White	10.0	(1)	500	MLBL-04W	1SFA611621R1045	10	0.012
Rated voltage 110-130 V AC high anti-inductive voltage (2)							
Red	10.0	620	250	MLBL-04AR	1SFA611621R3041	10	0.012
Green	10.0	520	1500	MLBL-04AG	1SFA611621R3042	10	0.012
Yellow	10.0	582	300	MLBL-04AY	1SFA611621R3043	10	0.012
Blue	10.0	468	450	MLBL-04AL	1SFA611621R3044	10	0.012
White	10.0	(1)	600	MLBL-04AW	1SFA611621R3045	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) Higher threshold to light up LED to be used in application where there is risk of large induced voltages.

Modular plastic range

LED blocks for front mounting

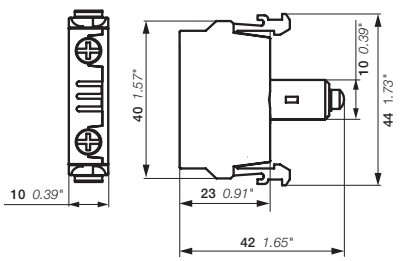


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MLBL-00W

Color	Rated current mA	Wavelength nm	Luminance mcd	Type	Order code	Pkg qty	Weight (1pce) kg
Rated voltage 230 V AC							
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 230 V AC high anti-inductive voltage (2)							
Red	10.0	620	250	MLBL-99R	1SFA611621R1991	10	0.012
Green	10.0	520	1500	MLBL-99G	1SFA611621R1992	10	0.012
Yellow	10.0	588	300	MLBL-99Y	1SFA611621R1993	10	0.012
Blue	10.0	468	450	MLBL-99L	1SFA611621R1994	10	0.012
White	10.0	(1)	600	MLBL-99W	1SFA611621R1995	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) Higher threshold to light up LED to be used in application where there is risk of large induced voltages.



MLBL

Dimensions (mm, inches)

Modular plastic range

Accessories



KA1



MA1-8052



MA1-8126



KA1-8010



KA1-8022/KA1-8021



SK616016-2



MA1-8153



MA1-8152



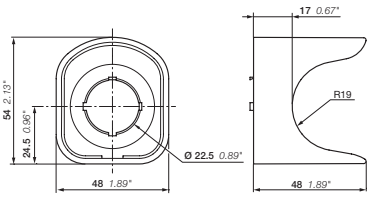
MA1-8053



MA1-8128

Description	Bezel / color	Type	Order code	Pkg qty	Weight (1pce) kg
30 mm adaptors 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
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 plastic	KA1-8023	1SFA616920R8023	10	0.002
	Chrome metal	KA1-8024	1SFA616920R8024	10	0015
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 pad-lock and with water drainage					
Emergency stop, machine stop 40 mm	Yellow	MA1-8053	1SFA611920R8053	10	0.020
	Grey	MA1-8128	1SFA611920R8128	10	0.020

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



MA1

Dimensions (mm, inches)

Modular plastic range

Accessories



MA1-8131



MDB-2



MA1-8015



MA1-8149



MA1-8019

Description	Bezel / color	Type	Order code	Pkg qty	Weight (1pce) kg
DIN-rail adaptor					
DIN-rail adaptor		MA1-8131	1SFA611920R8131	1	0.020
DIN-rail adaptor with one dummy block		MA1-8001	1SFA611920R8001	1	0.028
Dummy block		MDB-2	1SFA611630R1002	10	0.003
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		MA1-8019	1SFA611920R8019	10	0.001

Note: Din-rail adaptor 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 adaptor

Modular plastic range

Technical data

Standards and approvals

IEC / EN 60947-1	Low Voltage switchgear and controlgear - Part 1: General rules
IEC / EN 60947-5-1	Low Voltage switchgear and controlgear - part 5-1: control circuit devices and switching elements - Electromechanical control circuit devices
IEC / EN 60947-5-5	Low Voltage switchgear and controlgear - 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 controlgear 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
Metallic enclosures: KEM	IP66, 67, 69K	-

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

Technical data

Terminals

Plus-minus pozidriv No.2 screw with DIN-washer.

Connectable area min. 1 x 0.5 mm² /AWG 20 - max. 2 x 2.5 mm²/2 x AWG 14

Connecting characteristics

Contact block type			MCB	MCBL	MLBL
Connection capacity (min. ... max.)					
	Solid/stranded	1x	1...2.5 mm²		
		2x	1...2.5 mm²		
	Flexible	1x	0.75...2.5 mm²		
		2x	0.75...2.5 mm²		
	Flexible with non insulated ferrule	1x	0.75...2.5 mm²		
		2x	0.75...2.5 mm²		
	Flexible with insulated ferrule	1x	0.75...2.5 mm²		
		2x	0.75...2.5 mm²		
	Lugs	L≤	7.0 mm		
		I>	3.5 mm		
Connection capacity acc. to UL/CSA		1 or 2 x	AWG 20...14		
Tightening torque			Plus-minus Pozidriv No. 2 screw with DIN-washer		
	Operators locking nut		Min. 2 Nm / Max. 2.3 Nm		
	Cable terminal		0.9 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, toulene)	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	

1SFC151052S0201

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, Ui		690 V
Rated thermal current, Ith		10 A
Rated operational current, Ie 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, Ie utilisation 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
Pollution degree		3

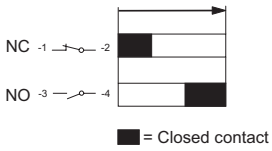
Ratings as per UL, CSA, NEMA		A600 AC		Q600 DC
Rated insulation voltage		600 V		600 V
Rated thermal current		10 A		2.5 A
Rated operational current	at: 120 V	6 A	at: 125 V	0.55 A
	at: 240 V	3 A	at: 250 V	0.27 A
	at: 480 V	1.5 A	at: 480 V	0.10 A
	at: 600 V	1.2 A	at: 600 V	0.10 A

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	

Micro switch block

Ratings as per IEC 60947-5-1

Rated insulation voltage, Ui		125 V
Rated thermal current, Ith		3 A
Rated operational current, Ie utilisation category AC 14,	at: 125 V	0.5 A
Rated operational current, Ie utilisation category DC 13,	at: 24 V	0.3 A
Rated operational current, Ie 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, M3SSKand 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

1SFC151052S0201

Modular plastic range

Technical data

LED blocks front and rear mounting MLBL

Color		Current		Illuminance		Anti ... inductive peak voltage	Main wavelength	Color temperature
		mA		lx				
		Min.	Max.	Min.	Max.	V	nm	K
Voltage range 12 V DC								
●	Red	11	15	1000	3500	5	620 ... 625	–
●	Green	8	12	3700	12500	5	515 ... 520	–
●	Yellow	11	15	1200	4250	5	585 ... 590	–
●	Blue	8	12	1500	5300	5	465 ... 470	–
○	Clear	8	12	1800	8500	5	–	8000 ... 12000
Voltage range 24 V AC / DC								
●	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	11	1800	8500	5	–	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								
●	Red	8	12	900	3100	15	620 ... 625	–
●	Green	8	12	3200	12000	15	515 ... 520	–
●	Yellow	8	12	1000	3700	15	585 ... 590	–
●	Blue	8	12	1550	5500	15	465 ... 470	–
○	Clear	8	12	1850	8800	15	–	8000 ... 12000
Voltage range 110 ... 130 V AC high anti-inductive voltage (1)								
●	Red	14	16	700	2600	25	620 ... 625	–
●	Green	14	16	2100	8200	25	515 ... 520	–
●	Yellow	14	16	750	3000	25	585 ... 590	–
●	Blue	14	16	1000	5000	25	465 ... 470	–
○	Clear	14	16	1500	8100	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) Higher threshold to light up LED to be used in applications where there is risk of large induced voltages.

Modular plastic range

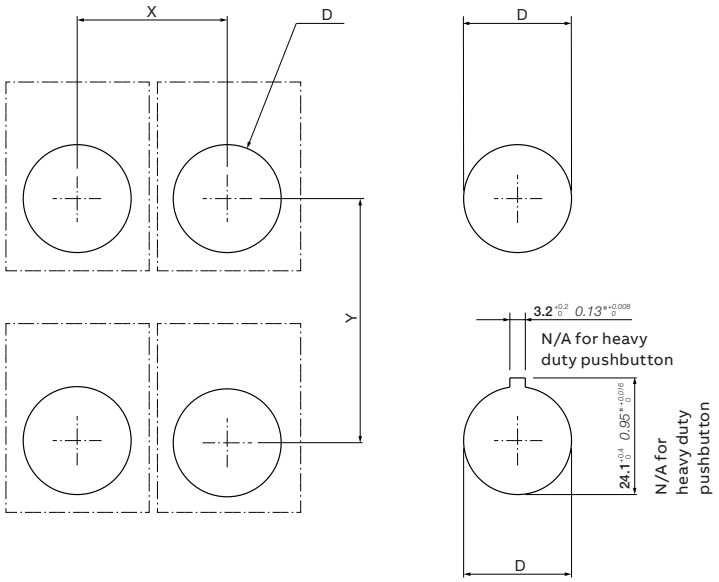
Technical data

Color		Current mA Min.	Max.	Illuminance lx Min.	Max.	Anti-inductive peak voltage V	Main wavelength Nm	Color temperature K
Voltage range 220 V DC								
●	Red	7	10	700	2300	15	620 ... 625	–
●	Green	7	10	2400	8000	15	515 ... 520	–
●	Yellow	7	10	800	3100	15	585 ... 590	–
●	Blue	7	10	1200	4350	15	465 ... 470	–
○	Clear	7	10	1400	7000	15	–	8000 ... 12000
Voltage range 230 V AC								
●	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	7	11	1500	5300	15	465 ... 470	–
○	Clear	7	11	1800	8500	15	–	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

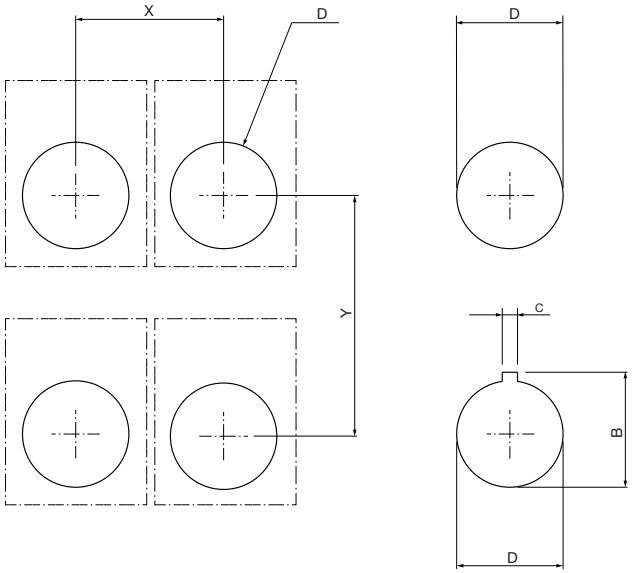
Note:
The testing distance of illuminance is 2 mm, between top of lens and the sensor surface. Clean test environment, supply voltage at 50/60 Hz with harmonized wave and without length high frequency.
Rated voltage tolerance of LED blocks: -30% to +10%
(1) Higher threshold to light up LED to be used 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	**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 (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 (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 adaptor	**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"

1SFC151085S0201

Pilot devices
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
63 Illuminated selector switches
68 Key-operated selector switches
72 Joysticks
74 Toggle switches
75 Selector pushbuttons

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

83 Technical data

85 Dimension

86 Drilling plan

Modular metal range

Non-illuminated pushbuttons momentary



P9MPNRG
with holder



P9MPNRG



P9MPNGG



P9MPNBG



P9MPNNG



P9MPNRS



P9MPNVS



P9MPNLS



P9MPNNS

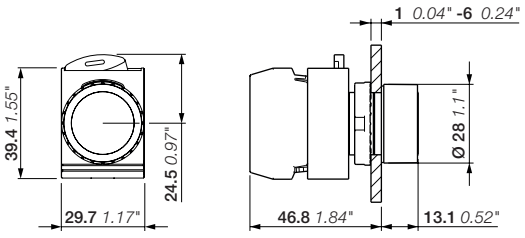


P9ACDPP

Description

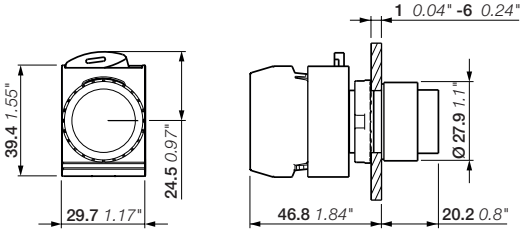
Each reference includes the satin chrome metal body and nut together with the holder.

Operator	Type	Order code	Pkg qty	Weight (1 pce) kg
Flush pushbutton				
Red	P9MPNRG	1SFA184001R9001	1	0.058
Green	P9MPNVG	1SFA184002R9002	1	0.058
Yellow	P9MPNGG	1SFA184003R9003	1	0.058
Blue	P9MPNLG	1SFA184006R9004	1	0.058
White	P9MPNBG	1SFA184007R9005	1	0.058
Black	P9MPNNG	1SFA184000R9006	1	0.058
Extended pushbutton				
Red	P9MPNRS	1SFA184011R9001	1	0.062
Green	P9MPNVS	1SFA184012R9002	1	0.062
Yellow	P9MPNGS	1SFA184057R9003	1	0.062
Blue	P9MPNLS	1SFA184016R9004	1	0.062
White	P9MPNBS	1SFA184017R9005	1	0.062
Black	P9MPNNS	1SFA184010R9006	1	0.062
Maintained accessory				
Device for standard pushbuttons, illuminated pushbuttons: To be used only with contact blocks P9B01VN, P9B01VR, P9B10VA and P9B01FN	P9ACDPP	1SFA187843R8000	1	0.012



P9MPN..G

P9ACDPP



P9MPN..S

Dimensions (mm, inches)

1SFC151088S0201

Modular metal range

Non-illuminated marked pushbuttons momentary



1SFC151454V0001

P9MPNLG037



P9MPNBG030



1SFC151449V0001

P9MPNBG028



1SFC151447V0001

P9MPNRG029



1SFC151446V0001

P9MPNNG029



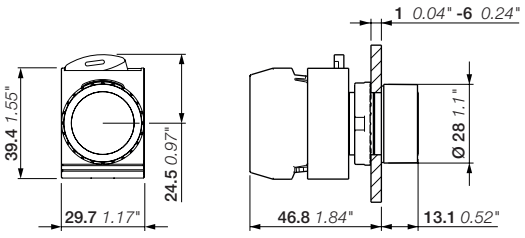
1SFC151445V0001

P9MPNVG006

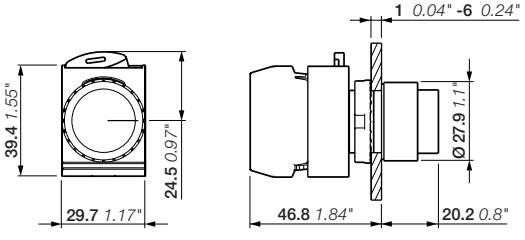
Flush pushbuttons

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
START	Green	P9MPNVG202	1SFA187149R9502	1	0.058
STOP	Red	P9MPNRG201	1SFA187147R9501	1	0.058
	Black	P9MPNNG201	1SFA188908R9506	1	0.058
R	Blue	P9MPNLG037	1SFA187143R9504	1	0.058
⊖	Green	P9MPNVG030	1SFA187146R9502	1	0.058
	White	P9MPNBG030	1SFA188057R9505	1	0.058
	Black	P9MPNNG030	1SFA187145R9506	1	0.058
I	Green	P9MPNVG028	1SFA187112R9502	1	0.058
	White	P9MPNBG028	1SFA187151R9505	1	0.058
	Black	P9MPNNG028	1SFA187111R9506	1	0.058
O	Red	P9MPNRG029	1SFA187110R9501	1	0.058
	Black	P9MPNNG029	1SFA187150R9506	1	0.058
→	Green	P9MPNVG006	1SFA187118R9502	1	0.058
	White	P9MPNBG006	1SFA187152R9505	1	0.058
	Black	P9MPNNG006	1SFA187117R9506	1	0.058



P9MPN..G



P9MPN..S

Dimensions (mm, inches)

Modular metal range

Illuminated pushbuttons momentary



P9MPLVGD
with holder



P9MPLRGD



P9MPLGGD



P9MPLBGD



P9MPLRSD



P9MPLLGV



P9MPLGGV



P9MPLVSD



P9MPLASD

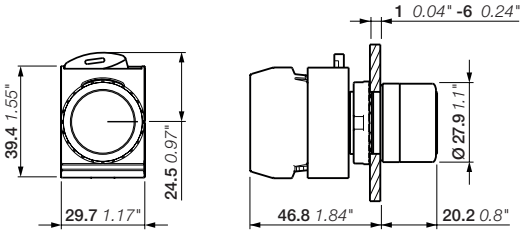


P9ACDPP

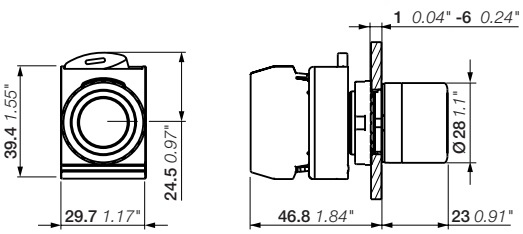
Description

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

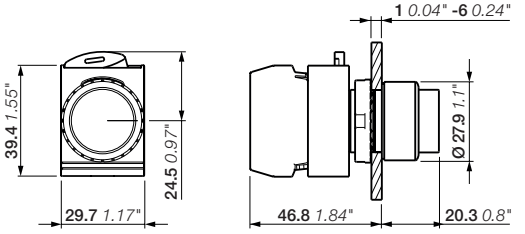
Operator	Type	Order code	Pkg qty	Weight (1 pce) kg
Flush pushbutton - Plastic lens type				
Red	P9MPLRGD	1SFA184491R9101	1	0.057
Green	P9MPLVGD	1SFA184492R9102	1	0.057
Yellow	P9MPLGGD	1SFA184493R9103	1	0.057
Blue	P9MPLLGD	1SFA184496R9104	1	0.057
White	P9MPLBGD	1SFA184497R9105	1	0.057
Orange	P9MPLAGD	1SFA184495R9109	1	0.057
Flush pushbutton - Glass lens type				
Red	P9MPLRGV	1SFA184521R9101	1	0.060
Green	P9MPLVGV	1SFA184522R9102	1	0.060
Yellow	P9MPLGGV	1SFA184523R9103	1	0.060
Blue	P9MPLLGV	1SFA184526R9104	1	0.060
White	P9MPLBGV	1SFA184527R9105	1	0.060
Extended pushbutton - Plastic lens type				
Red	P9MPLRSD	1SFA184501R9101	1	0.059
Green	P9MPLVSD	1SFA184502R9102	1	0.059
Yellow	P9MPLGSD	1SFA184503R9103	1	0.059
Blue	P9MPLLSD	1SFA184506R9104	1	0.059
White	P9MPLBSD	1SFA184507R9105	1	0.059
Orange	P9MPLASD	1SFA184505R9109	1	0.059
Maintained accessory				
Device for standard pushbuttons, illuminated pushbuttons: To be used only with contact blocks P9B01VN, P9B01VR, P9B10VA and P9B01FN	P9ACDPP	1SFA187843R8000	1	0.012



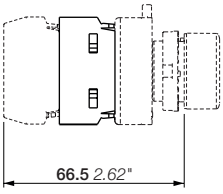
P9MPL..GD, P9MPL..GV



P9MPL..V



P9MPL..SD



P9ACDPP

Dimensions (mm, inches)

1SFC151089S0201

Modular metal range

Non-illuminated mushroom pushbuttons


1SFC151479V0001

P9MER3RN
with holder


1SFC151606V0001

P9MEM3RN


1SFC151608V0001

P9MEM3GN


1SFC151600V0001

P9MEM4VN


1SFC151596V0001

P9MEM6GN


1SFC151595V0001

P9MEM6NN


1SFC151441V0001

P9MER4RN


1SFC151591V0001

P9MET4VN1


1SFC151592V0001

P9MET4NN1


1SFC151468V0001

P9MEC4RN01

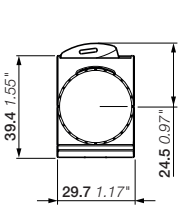

1SFC151467V0001

P9MEC4RN37

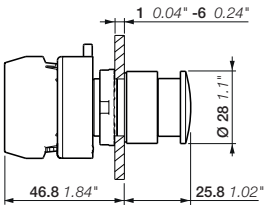
Description

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

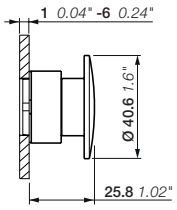
Color	Release method	Type	Order code	Pkg qty	Weight (1 pce) kg
Momentary					
Ø 28 mm					
Red	–	P9MEM3RN	1SFA184031R9001	1	0.060
Green	–	P9MEM3VN	1SFA184032R9002	1	0.060
Yellow	–	P9MEM3GN	1SFA184033R9003	1	0.060
Black	–	P9MEM3NN	1SFA184030R9006	1	0.060
Ø 40 mm					
Red	–	P9MEM4RN	1SFA184041R9001	1	0.061
Green	–	P9MEM4VN	1SFA184042R9002	1	0.061
Yellow	–	P9MEM4GN	1SFA184043R9003	1	0.061
Black	–	P9MEM4NN	1SFA184040R9006	1	0.061
Ø 60 mm					
Red	–	P9MEM6RN	1SFA184051R9001	1	0.070
Green	–	P9MEM6VN	1SFA184052R9002	1	0.070
Yellow	–	P9MEM6GN	1SFA184053R9003	1	0.070
Black	–	P9MEM6NN	1SFA184050R9006	1	0.070
Maintained					
Ø 28 mm					
Red	Twist release	P9MER3RN	1SFA184070R9001	1	0.066
Ø 40 mm					
Red	Pull release	P9MET4RN1	1SFA184061R9001	1	0.069
	Twist release	P9MER4RN	1SFA184071R9001	1	0.069
Green	Pull release	P9MET4VN1	1SFA184062R9002	1	0.069
Yellow	Pull release	P9MET4GN1	1SFA184063R9003	1	0.069
Black	Pull release	P9MET4NN1	1SFA184060R9006	1	0.069
Maintained with key					
Ø 40 mm					
Red	Key code 01	P9MEC4RN01	1SFA192000R9001	1	0.090
	Key code 37	P9MEC4RN37	1SFA192012R9001	1	0.090
	Key code 95	P9MEC4RN95	1SFA184073R9001	1	0.090



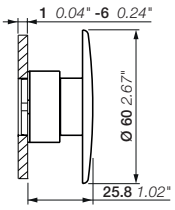
P9MEM..N, P9MER..N, P9MET..N



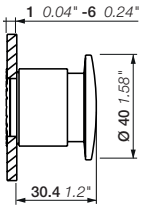
P9MEM3..N, P9MER3RN



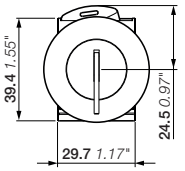
P9MEM4..N, P9MER4RN



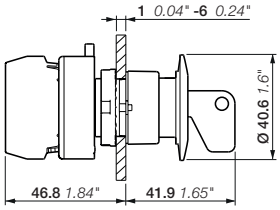
P9MEM6..N



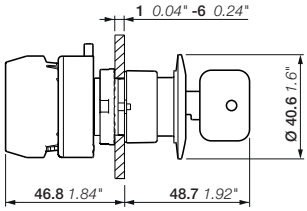
P9MET4..N



P9MEC4..N



P9MEC4RN01, P9MEC4RN95



P9MEC4RN37

Dimensions (mm, inches)

1SFC151090S0201

Modular metal range

Illuminated mushroom pushbuttons



1SFC151602V0001

P9MEM4RL



1SFC151604V0001

P9MEM4GL



1SFC151586V0001

P9MET4RL1



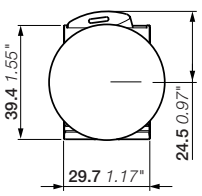
1SFC151587V0001

P9MET4LL1

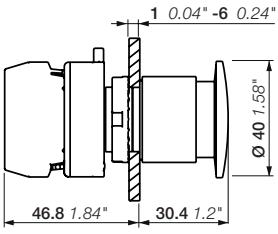
Description

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

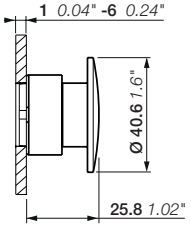
Color	Release method	Type	Order code	Pkg qty	Weight (1 pce) kg
Momentary					
Ø 40 mm					
Red	–	P9MEM4RL	1SFA184551R9101	1	0.062
Green	–	P9MEM4VL	1SFA184552R9102	1	0.062
Yellow	–	P9MEM4GL	1SFA184553R9103	1	0.062
Blue	–	P9MEM4LL	1SFA184556R9104	1	0.062
Maintained					
Ø 40 mm					
Red	Pull release	P9MET4RL1	1SFA184561R9101	1	0.062
Green	Pull release	P9MET4VL1	1SFA184562R9102	1	0.062
Yellow	Pull release	P9MET4GL1	1SFA184563R9103	1	0.062
Blue	Pull release	P9MET4LL1	1SFA184566R9104	1	0.062



P9MEM4..L, P9MET4..L



P9MET4..L



P9MEM4..L

Dimensions (mm, inches)

Modular metal range

Pilot lights


1SFC151478V0001

P9MLBD
with holder


1SFC151579V0001

P9MLRD


1SFC151578V0001

P9MLVD


1SFC151582V0001

P9MLGD


1SFC151580V0001

P9MLLD


1SFC151583V0001

P9MLBD


1SFC151581V0001

P9MLID

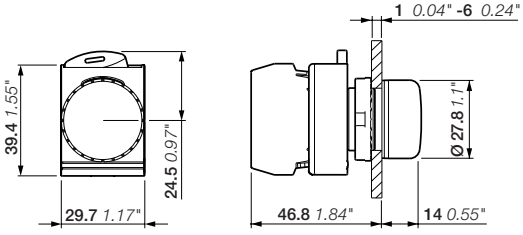

1SFC151584V0001

P9MLAD

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	P9MLRD	1SFA184791R9001	1	0.050
Green	P9MLVD	1SFA184792R9002	1	0.050
Yellow	P9MLGD	1SFA184793R9003	1	0.050
Blue	P9MLLD	1SFA184796R9004	1	0.050
White	P9MLBD	1SFA184797R9005	1	0.050
Clear	P9MLID	1SFA184798R9008	1	0.050
Orange	P9MLAD	1SFA184795R9009	1	0.050



P9ML..D

Dimensions (mm, inches)

Modular metal range

Non-illuminated selector switches - 2-position



P9MSMI0N
with holder



P9MSMI0N



P9MSMD0R



P9MSVI0N

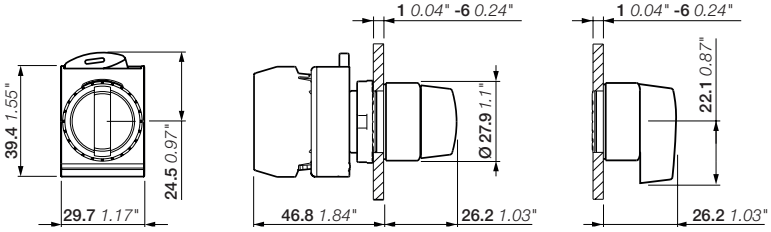
Description

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						
B C	● Black	I	P9MSMI0N	1SFA184120R9006	1	0.065
A C	● Red	D	P9MSMD0R	1SFA184111R9001	1	0.065
	● Black	D	P9MSMD0N	1SFA184110R9006	1	0.065
B C	● Red	I	P9MSMI5R	1SFA184151R9001	1	0.065
	● Black	I	P9MSMI5N	1SFA184150R9006	1	0.065
A C	● Red	D	P9MSMD5R	1SFA184141R9001	1	0.065
	● Black	D	P9MSMD5N	1SFA184140R9006	1	0.065
Long handle						
B C	● Black	I	P9MSVI0N	1SFA184371R9006	1	0.068
A C	● Black	D	P9MSVD0N	1SFA184370R9006	1	0.068
B C	● Black	I	P9MSVI5N	1SFA184374R9006	1	0.068
A C	● Black	D	P9MSVD5N	1SFA184373R9006	1	0.068

Contacts actuated

Positions	Contacts	Position on flange 2 3 1
CAM function D		
A 90° C	B10 13–14 A C	□ □ ■
	B10 13–14 A C B01 21–22	■ □ ■
	B11 13–14 11–12 A C	□ □ ■
CAM function I		
B 45° C	B11 13–14 11–12 B C	■ □ ■



P9MSM, P9MSV

Dimensions (mm, inches)

Modular metal range

Illuminated selector switches - 2-position



P9MSLD0R



P9MSLD0G



P9MSLD0B



P9MSLD0A



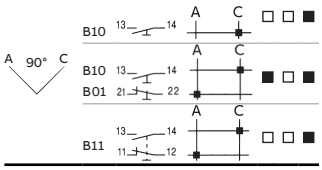
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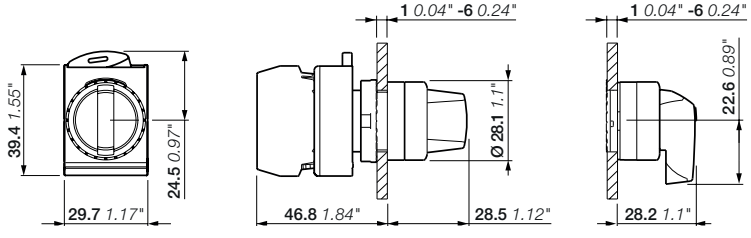
Description

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

Operating principle	Color	CAM function	Type	Order code	Pkg qty	Weight (1 pce) kg
Short handle						
	Red	D	P9MSLD0R	1SFA184591R9101	1	0.059
	Green	D	P9MSLD0V	1SFA184592R9102	1	0.059
	Yellow	D	P9MSLD0G	1SFA184593R9103	1	0.059
	Blue	D	P9MSLD0L	1SFA184596R9104	1	0.059
	White	D	P9MSLD0B	1SFA184597R9105	1	0.059
	Orange	D	P9MSLD0A	1SFA184595R9109	1	0.059
Long handle						
	Red	D	P9MSAD0R	1SFA184641R9101	1	0.060
	Green	D	P9MSAD0V	1SFA184642R9102	1	0.060
	Blue	D	P9MSAD0L	1SFA184646R9104	1	0.060
	White	D	P9MSAD0B	1SFA184647R9105	1	0.060

Contacts actuated

Positions	Contacts	Position on flange 2 3 1
CAM function D		
	B10	□ □ ■
	B10 B01	■ □ ■
	B11	□ □ ■



P9MSL, P9MSA

Dimensions (mm, inches)

Modular metal range

Non-illuminated selector switches - 3-position



1SFC151471V0001

P9MSVZ0N
wit holder



1SFC151506V0001

P9MSMZ0R



1SFC151508V0001

P9MSMZ3N



1SFC151503V0001

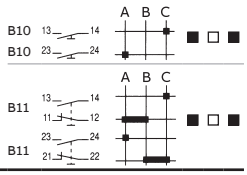
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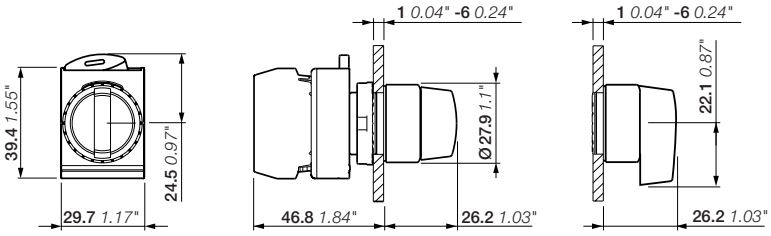
Description

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

Operating principle	Color	CAM function	Type	Order code	Pkg qty	Weight (1 pce) kg
Short handle						
	● Red	Z	P9MSMZ0R	1SFA184201R9001	1	0.065
	● Black	Z	P9MSMZ0N	1SFA184200R9006	1	0.065
	● Red	Z	P9MSMZ3R	1SFA184321R9001	1	0.065
	● Black	Z	P9MSMZ3N	1SFA184320R9006	1	0.065
	● Black	Z	P9MSMZ5N	1SFA184280R9006	1	0.065
	● Red	Z	P9MSMZ1R	1SFA184241R9001	1	0.065
	● Black	Z	P9MSMZ1N	1SFA184240R9006	1	0.065
Long handle						
	● Black	Z	P9MSVZ0N	1SFA184379R9006	1	0.068
	● Black	Z	P9MSVZ3N	1SFA184391R9006	1	0.068
	● Black	Z	P9MSVZ5N	1SFA184387R9006	1	0.068
	● Black	Z	P9MSVZ1N	1SFA184383R9006	1	0.068

Contacts actuated

Positions	Contacts	Position on flange 2 3 1
CAM function Z		
	 B10 13–14 23–24 B11 13–14 11–12 23–24 21–22	■ □ ■



P9MSM, P9MSV

Dimensions (mm, inches)

1SFC151093S0201

Modular metal range

Illuminated selector switches - 3-position


1SFC151511V0001

P9MSLZ0R


1SFC151509V0001

P9MSLZ0G


1SFC151510V0001

P9MSLZ0B


1SFC151513V0001

P9MSLZ3V


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P9MSAZ0V


1SFC151497V0001

P9MSAZ0B


1SFC151493V0001

P9MSAZ3A

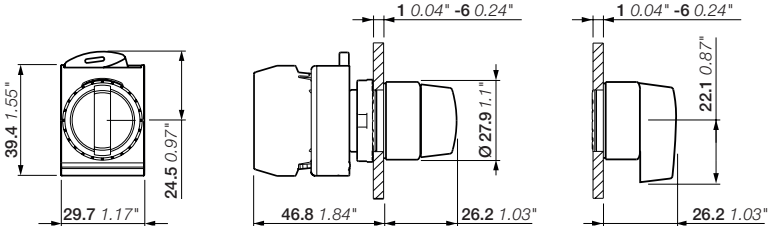
Contacts actuated

Positions	Contacts	Position on flange 2 3 1
CAM function Z		
A 45° B 45° C	B10 13–14, 23–24	■ □ ■
	B11 13–14, 11–12, 23–24, 21–22	■ □ ■

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						
A B C	Red	Z	P9MSLZ0R	1SFA184601R9101	1	0.065
	Green	Z	P9MSLZ0V	1SFA184602R9102	1	0.065
	Yellow	Z	P9MSLZ0G	1SFA184603R9103	1	0.065
	Blue	Z	P9MSLZ0L	1SFA184606R9104	1	0.065
	White	Z	P9MSLZ0B	1SFA184607R9105	1	0.065
	Orange	Z	P9MSLZ0A	1SFA184605R9109	1	0.065
A B C	Red	Z	P9MSLZ3R	1SFA184631R9101	1	0.065
	Green	Z	P9MSLZ3V	1SFA184632R9102	1	0.065
	Yellow	Z	P9MSLZ3G	1SFA184633R9103	1	0.065
	Blue	Z	P9MSLZ3L	1SFA184636R9104	1	0.065
	White	Z	P9MSLZ3B	1SFA184637R9105	1	0.065
	Orange	Z	P9MSLZ3A	1SFA184635R9109	1	0.065
A B C	Red	Z	P9MSLZ5R	1SFA184621R9101	1	0.065
	Green	Z	P9MSLZ5V	1SFA184622R9102	1	0.065
A B C	Red	Z	P9MSLZ1R	1SFA184611R9101	1	0.065
	Green	Z	P9MSLZ1V	1SFA184612R9102	1	0.065
	Yellow	Z	P9MSLZ1G	1SFA184613R9103	1	0.065
	White	Z	P9MSLZ1B	1SFA184617R9105	1	0.065
Long handle						
A B C	Green	Z	P9MSAZ0V	1SFA184652R9102	1	0.068
	White	Z	P9MSAZ0B	1SFA184657R9105	1	0.068
A B C	Green	Z	P9MSAZ3V	1SFA184682R9102	1	0.068
	White	Z	P9MSAZ3B	1SFA184687R9105	1	0.068
	Orange	Z	P9MSAZ3A	1SFA184685R9109	1	0.068



P9MSL, P9MSA

Dimensions (mm, inches)

Modular metal range

Non-illuminated selector switches - 4-position



1SFC151471V0001

P9MSMX0N
with holder



1SFC151508V0001

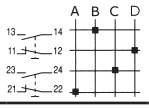
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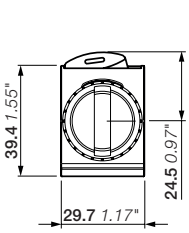
Description

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	X	P9MSMX0N	1SFA184397R9006	1	0.065
	● Black	X	P9MSMX5N	1SFA184340R9006	1	0.065
Long handle						
	● Black	X	P9MSVX0N	1SFA184392R9006	1	0.068
	● Black	X	P9MSVX5N	1SFA184393R9006	1	0.068

Contacts actuated

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



P9MSM, P9MSV

Dimensions (mm, inches)

1SFC151094S0201

Modular metal range

Non-illuminated selector switches - 5-position



1SFC151511V0001

P9MSMYOR

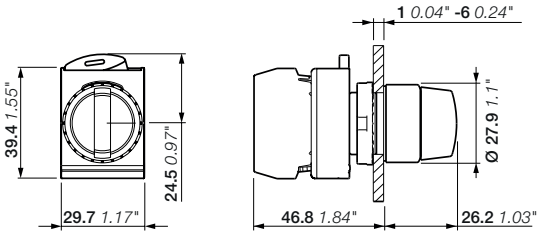
Description

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						
B C D A E	● Black	W	P9MSMW0N	1SFA184360R9006	1	0.065
B C D A E	● Red	Y	P9MSMY0R	1SFA184351R9001	1	0.065
B C D A E	● Black	Y	P9MSMY0N	1SFA184350R9006	1	0.065

Contacts actuated

Positions	Contacts	Position on flange 2 3 1
CAM function Y	B C D A E 40° 40° 40° 40° B11 13 14 11 12 23 24 21 22 B11 A B C D E	■ □ ■
CAM function W	B C D A E 40° 40° 40° 40° B11 13 14 11 12 23 24 21 22 B11 A B C D E	■ □ ■



P9MSM

Dimensions (mm, inches)

Modular metal range

Key-operated selector switches - 2-position



1SFC151469V0001

P9MSCI0C37
with holder



1SFC151516V0001

P9MSCI0C95

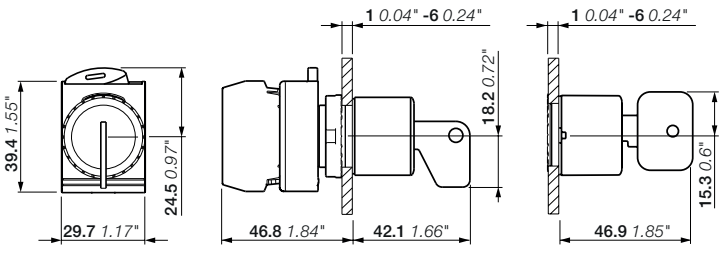
Description

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

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	P9MSCI0C37	1SFA192162R9006	1	0.120
	01	Metal	I	P9MSCI0C01	1SFA192150R9006	1	0.120
	95	Metal	I	P9MSCI0C95	1SFA184403R9006	1	0.120
 Key can be removed in C only	01	Metal	I	P9MSCI0E01	1SFA192165R9006	1	0.120
	95	Metal	I	P9MSCI0E95	1SFA184404R9006	1	0.120
 Key can be removed in B and C	95	Metal	I	P9MSCI0N95	1SFA184405R9006	1	0.120
 Key can be removed in A only	37	Red/Metal	D	P9MSCD0A37	1SFA192117R9006	1	0.120
	01	Metal	D	P9MSCD0A01	1SFA192105R9006	1	0.120
	95	Metal	D	P9MSCD0A95	1SFA184400R9006	1	0.120
 Key can be removed in C only	01	Metal	D	P9MSCD0E01	1SFA192120R9006	1	0.120
	95	Metal	D	P9MSCD0E95	1SFA184401R9006	1	0.120
 Key can be removed in A and C positions	37	Red/Metal	D	P9MSCD0K37	1SFA192147R9006	1	0.120
	01	Metal	D	P9MSCD0K01	1SFA192135R9006	1	0.120
	95	Metal	D	P9MSCD0K95	1SFA184402R9006	1	0.120
 Key can be removed in B position	37	Red/Metal	I	P9MSCI5C37	1SFA192267R9006	1	0.120
	01	Metal	I	P9MSCI5C01	1SFA192255R9006	1	0.120
	95	Metal	I	P9MSCI5C95	1SFA184410R9006	1	0.120
 Key can be removed in A position	37	Red/Metal	D	P9MSCD5A37	1SFA192252R9006	1	0.120
	01	Metal	D	P9MSCD5A01	1SFA192240R9006	1	0.120
	95	Metal	D	P9MSCD5A95	1SFA184409R9006	1	0.120

Contacts actuated

Positions	Contacts	Position on flange 2 3 1
CAM function D		
A 90° C	B10 13–14	A C □ □ ■
	B10 13–14 / B01 21–22	A C ■ □ ■
	B11 13–14 / 11–12	A C □ □ ■
CAM function I		
B 45° C	B11 13–14 / 11–12	B C □ □ ■



P9MSC..01, P9MSC..95

P9MSC..37

Dimensions (mm, inches)

Modular metal range

Key-operated selector switches - 3-position



1SFC151469V0001

P9MSCZ0T37
with holder



1SFC151516V0001

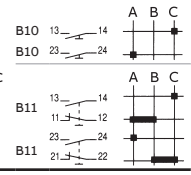
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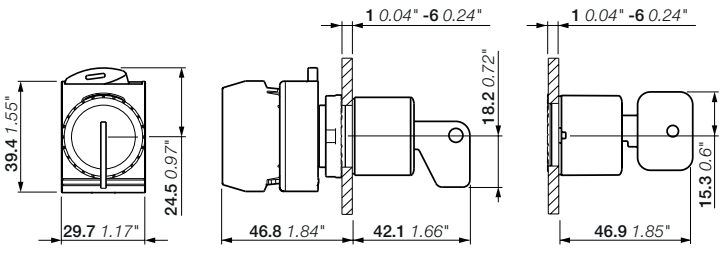
Description

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

Operating principle	Key code	Key head color	CAM function	Type	Order code	Pkg qty	Weight (1 pce) kg
 Key can be removed in all positions	37	Red/Metal	Z	P9MSCZ0T37	1SFA192702R9006	1	0.120
	01	Metal	Z	P9MSCZ0T01	1SFA192690R9006	1	0.120
	95	Metal	Z	P9MSCZ0T95	1SFA184439R9006	1	0.120
Key can be removed in A position only	95	Metal	Z	P9MSCZ0A95	1SFA184433R9006	1	0.120
Key can be removed in B position only	95	Metal	Z	P9MSCZ0C95	1SFA184434R9006	1	0.120
Key can be removed in A and B positions	95	Metal	Z	P9MSCZ0H95	1SFA184436R9006	1	0.120
Key can be removed in B and C positions	95	Metal	Z	P9MSCZ0N95	1SFA184438R9006	1	0.120
 Key can be removed in position B only	95	Metal	Z	P9MSCZ1C95	1SFA184449R9006	1	0.120
Key can be removed in A and C positions	95	Metal	Z	P9MSCZ1N95	1SFA184451R9006	1	0.120

Contacts actuated

Positions	Contacts	Position on flange 2 3 1
CAM function Z		
	 B10 13–14 B10 23–24	■ □ ■
	B11 13–14 11–12 23–24 B11 21–22	■ □ ■



P9MSC..01, P9MSC..95

P9MSC..37

Dimensions (mm, inches)

Modular metal range

Key-operated selector switches - 3-position



1SFC151470V0001

P9MSCZ3C01
with holder



1SFC151516V0001

P9MSCZ0A95

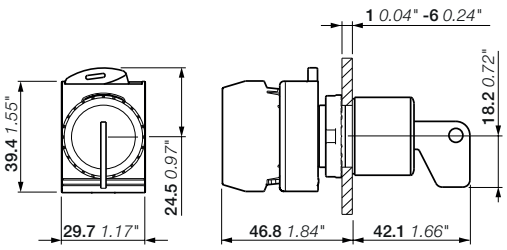
Contacts actuated

Positions	Contacts	Position on flange 2 3 1
CAM function Z		
B A 45° 45° C	B10 13—14 A B C B10 23—24	■ □ ■
	B11 13—14 A B C 11—12 23—24 B11 21—22	■ □ ■

Description

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

Operating principle	Key code	Key head color	CAM function	Type	Order code	Pkg qty	Weight (1 pce) kg
A B C Key can be removed in B position only	01	Metal	Z	P9MSCZ3C01	1SFA193110R9006	1	0.120
Key can be removed in B position only	95	Metal	Z	P9MSCZ3C95	1SFA184467R9006	1	0.120
A B C Key can be removed in A position only	01	Metal	Z	P9MSCZ5A01	1SFA193020R9006	1	0.120
	95	Metal	Z	P9MSCZ5A95	1SFA184461R9006	1	0.120
Key can be removed in B position only	95	Metal	Z	P9MSCZ5C95	1SFA184462R9006	1	0.120
Key can be removed in A and B positions	01	Metal	Z	P9MSCZ5H01	1SFA193050R9006	1	0.120



P9MSC..01, P9MSC..95

Dimensions (mm, inches)

Modular metal range

Key-operated selector switches - 4-position



1SFC151470V0001

P9MSCX0A95
with holder



1SFC151516V0001

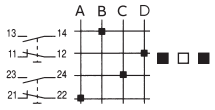
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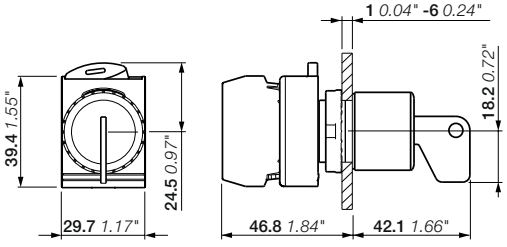
Description

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

Operating principle	Key code	Key head color	CAM function	Type	Order code	Pkg qty	Weight (1 pce) kg
 Key can be removed in A position	95	Metal	X	P9MSCX0A95	1SFA184468R9006	1	0.120
Key can be removed in all positions	01	Metal	X	P9MSCX0Z01	1SFA193335R9006	1	0.120
	95	Metal	X	P9MSCX0Z95	1SFA184482R9006	1	0.120

Contacts actuated

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



P9MSC..01, P9MSC..95

Dimensions (mm, inches)

Modular metal range

Joysticks - 2-position and 4-position



1SFC151477V0001

P9MMN2A
with holder



1SFC151574V0001

P9MMN2F



1SFC151576V0001

P9MMB2FG

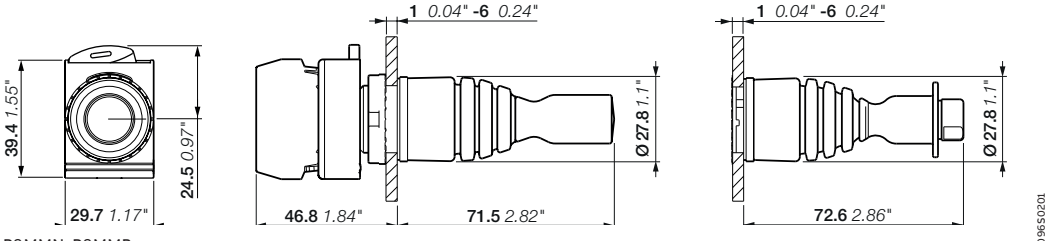
Description

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	P9MMN2F	1SFA184700R9006	1	0.090
	Rubber/Black	P9MMN2T	1SFA184701R9006	1	0.090
	Rubber/Black	P9MMN2A	1SFA184702R9006	1	0.090
	Rubber/Black	P9MMN2B	1SFA184703R9006	1	0.090
	Rubber/Black	P9MMN4F	1SFA184720R9006	1	0.090
	Rubber/Black	P9MMN4T	1SFA184721R9006	1	0.090
	Silicone/Grey	P9MMN4TG	1SFA184716R9006	1	0.090
With latching function					
	Rubber/Black	P9MMB2F	1SFA184710R9006	1	0.090
	Silicone/Grey	P9MMB2FG	1SFA184709R9006	1	0.090
	Rubber/Black	P9MMB2T	1SFA184711R9006	1	0.090
	Rubber/Black	P9MMB2A	1SFA184712R9006	1	0.090
	Rubber/Black	P9MMB4F	1SFA184740R9006	1	0.090
	Rubber/Black	P9MMB4T	1SFA184741R9006	1	0.090
	Silicone/Grey	P9MMB4TG	1SFA184744R9006	1	0.090

Contacts actuated

Positions	Contacts	Position on flange 2 3 1
A, B, D	A B D B11 13–14, 11–12, 23–24, 21–22 B11	■ □ ■
A, B, C, D, E	A C B D E B11 13–14, 11–12, 23–24, 21–22 B11	■ □ ■



P9MMN, P9MMB

Dimensions (mm, inches)

1SFC151096S0201

Modular metal range

Joysticks - Accessories



1SFC151435V0001

P9ARSCMN



1SFC151614V0001

P9ARSCMB



1SFC151434V0001

P9ARSGMN



1SFC151613V0001

P9ARSGMB

Accessories

Description	Color	Type	Order code	Pkg qty	Weight (1 pce) kg
Rubber boot for joystick without latching	● Black	P9ARSCMN	1SFA188043R8000	1	0.008
Rubber boot for joystick with latching	● Black	P9ARSCMB	1SFA188044R8000	1	0.008
Silicone boot for joystick without latching	● Grey	P9ARSGMN	1SFA187495R8000	1	0.008
Silicone boot for joystick with latching	● Grey	P9ARSGMB	1SFA187496R8000	1	0.008

Modular metal range

Toggle switches



1SFC151480V0001

P9MCB
with holder



1SFC151609V0001

P9MCD

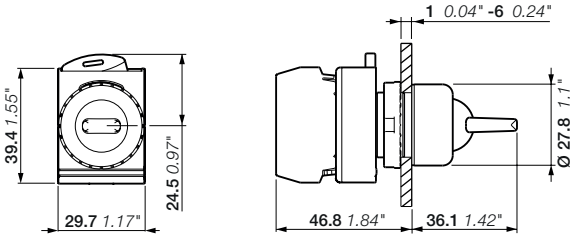
Contacts actuated

Positions	Contacts	Position on flange 2 3 1
CAM function D		
A / B	B11 — 13–14, 11–12; A, B	□ □ ■
CAM function B		
A / B / C	B11 — 13–14, 11–12; A, B, C	□ □ ■

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					
A / C	D	P9MCD	1SFA184695R9006	1	0.073
3 position					
A / B / C	B	P9MCB	1SFA184696R9006	1	0.073
A / B / C	B	P9MCC	1SFA184697R9006	1	0.073



P9MC

Dimensions (mm, inches)

Modular metal range

Selector pushbuttons



1SFC151474V0001

P9MPS22G
with holder



1SFC151517V0001

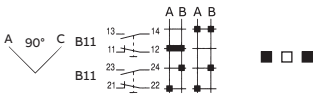
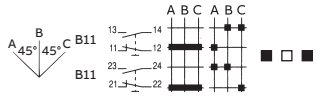
P9MPS22G

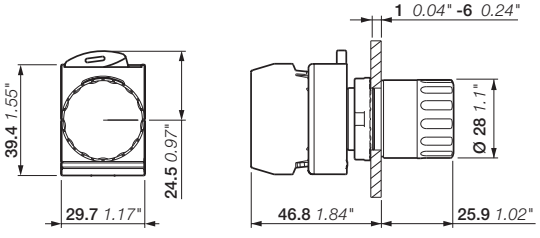
Description

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	P9MPS22G	1SFA184691R9006	1	0.069
3 position					
	301	P9MPS34G	1SFA184693R9006	1	0.065

Contacts actuated

Positions	Contacts	Position on flange 2 3 1
CAM function 231		■ □ ■
CAM function 301		■ □ ■



P9MPS

Dimensions (mm, inches)

Modular metal range

Holders and contact blocks for front mounting



P9ACFS3



P9ACFS5



P9B10VN



P9B20VN



P9B10VA



P9B10FN

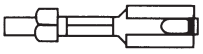
Screw terminals

Description	Contacts	Type	Order code	Pkg qty	Weight (1 pce)
					kg
Holders					
3-position	- -	P9ACFS3	1SFA187841R8000	1	0.009
5-position	- -	P9ACFS5	1SFA187842R8000	1	0.016
Single contact blocks					
For 3 & 5-position holder	1 0	P9B10VN	1SFA187002R8001	1	0.009
	1 0	P9B10VN-AA	1SFA215832R8001	200	0.009
	0 1	P9B01VN	1SFA187001R8010	1	0.009
Double contact blocks					
For 3 & 5-position holder	2 0	P9B20VN	1SFA187009R8002	1	0.016
	0 2	P9B02VN	1SFA187008R8020	1	0.016
	0 2	P9B02VN-AA	1SFA205236R8020	200	0.016
	1 1	P9B11VN	1SFA187000R8011	1	0.016
	1 1	P9B11VN-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	P9B10VA	1SFA187004R8201	1	0.009
	0 1	P9B01VR	1SFA187003R8110	1	0.010

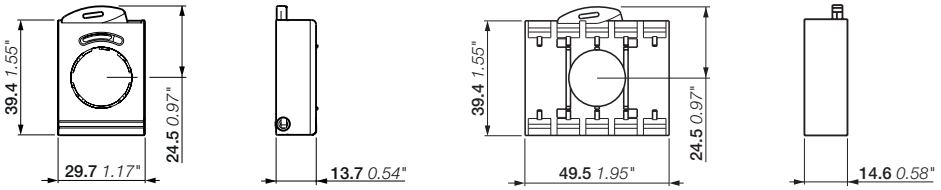
Faston terminals
Single contact blocks (1)

For 3 & 5-position holder	1 0	P9B10FN	1SFA187013R8301	1	0.009
	1 0	P9B10FN-AA	1SFA215835R8301	200	0.009
	0 1	P9B01FN	1SFA187012R8310	1	0.009

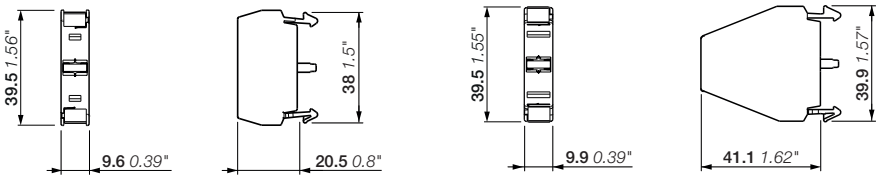
(1)



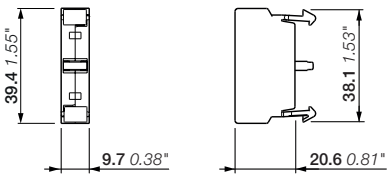
1x (6.35 x 0.8 mm)
2x (2.8 x 0.8 mm)



P9ACFS3 P9ACFS5



P9B10VN, P9B01VN, P9B10VA, P9B01VR P9B20VN, P9B02VN, P9B11VN



P9B10FN, P9B01FN

Dimensions (mm, inches)

Modular metal range

Power supplies



P9PDNV0



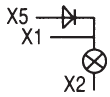
P9PDTV0

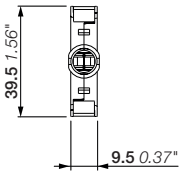


P9PDNF0

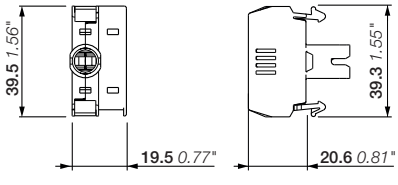
Description	Type	Order code	Pkg qty	Weight (1 pce) kg
Screw terminals				
Full voltage IEC: BA9S max 380 V - 2 W bulb not included UL - CSA: BA9S max 250 V - 2 W bulb not included	P9PDNV0	1SFA187020R1080	1	0.010
	P9PDNV0-AA	1SFA215831R1000	200	0.010
Test full voltage IEC: BA9S max 380 V - 2 W bulb not included UL - CSA: BA9S max 250 V - 2 W bulb not included	P9PDTV0	1SFA187027R8000	1	0.018
Faston terminals				
Full voltage IEC: BA9S max 380 V - 2 W bulbs not included UL - CSA: BA9S max 250 V - 2 W bulbs not included	P9PDNF0	1SFA187055R1300	1	0.013
	P9PDNF0-AA	1SFA215834R1300	200	0.013

Contacts actuated

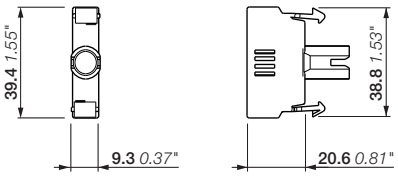
Power supplies	Position on flange 2 3 1
P9PDNV0 	□ ■ □
P9PDTV0 - P9PDNF0 	■ ■ □



P9PDNV0



P9PDTV0



P9PDNF0

Dimensions (mm, inches)

Modular metal range

LED bulbs for power supplies



1SFC151630V0001

BA9S6LEDB

Color	Type	Order code	Pkg qty	Weight (1 pce) kg
Rated voltage 6 V AC/DC				
Red	BA9S6LEDR	1SFA187163R1001		0.002
Green	BA9S6LEDV	1SFA187164R1002		0.002
Yellow	BA9S6LEDG	1SFA187161R1003		0.002
Blue	BA9S6LEDL	1SFA187162R1001		0.002
White	BA9S6LEDB	1SFA187160R1005		0.002
Rated voltage 12 V AC/DC				
Red	BA9S12LEDR	1SFA187168R1011		0.002
Green	BA9S12LEDV	1SFA187169R1012		0.002
Yellow	BA9S12LEDG	1SFA187166R1013		0.002
Blue	BA9S12LEDL	1SFA187167R1014		0.002
White	BA9S12LEDB	1SFA187165R1015		0.002
Rated voltage 24 V AC/DC				
Red	BA9S24LEDR	1SFA187173R1021		0.002
Green	BA9S24LEDV	1SFA187174R1022		0.002
Yellow	BA9S24LEDG	1SFA187171R1023		0.002
Blue	BA9S24LEDL	1SFA187172R1024		0.002
White	BA9S24LEDB	1SFA187170R1025		0.002
Rated voltage 48 V AC/DC				
Red	BA9S48LEDR	1SFA187178R1031		0.002
Green	BA9S48LEDV	1SFA187179R1032		0.002
Yellow	BA9S48LEDG	1SFA187176R1033		0.002
Blue	BA9S48LEDL	1SFA187177R1034		0.002
White	BA9S48LEDB	1SFA187175R1035		0.002
Rated voltage 60 V AC/DC				
White	BA9S60LED	1SFA187191R1045		0.002
Rated voltage 110 - 120 V AC/DC				
Red	BA9S110LEDR	1SFA187183R1041		0.002
Green	BA9S110LEDV	1SFA187184R1042		0.002
Yellow	BA9S110LEDG	1SFA187181R1043		0.002
Blue	BA9S110LEDL	1SFA187182R1045		0.002
White	BA9S110LEDB	1SFA187180R1045		0.002
Rated voltage 130 V AC/DC				
White	BA9S130LED	1SFA187190R1045		0.002
Rated voltage 230 V AC				
Red	BA9S230LEDR	1SFA187188R1051		0.002
Green	BA9S230LEDV	1SFA187189R1052		0.002
Yellow	BA9S230LEDG	1SFA187186R1053		0.002
Blue	BA9S230LEDL	1SFA187187R1054		0.002
White	BA9S230LEDB	1SFA187185R1055		0.002

Modular metal range

LED blocks for front mouting



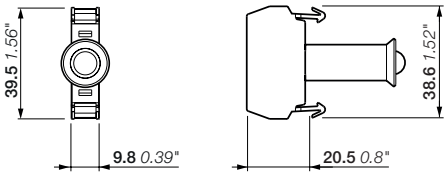
P9PLNVDR

Standard Light

Color	Type	Order code	Pkg qty	Weight (1 pce) kg
Rated voltage 24 V AC/DC				
Red	P9PLNVDR	1SFA197004R1011	1	0.020
Green	P9PLNVDV	1SFA197005R1012	1	0.020
Yellow	P9PLNVDG	1SFA197002R1013	1	0.020
Blue	P9PLNVDL	1SFA197003R1014	1	0.020
White	P9PLNVDB	1SFA197001R1015	1	0.020
Rated voltage 120 V AC				
Red	P9PLNVJR	1SFA197010R1041	1	0.020
Green	P9PLNVJV	1SFA197011R1042	1	0.020
Yellow	P9PLNVJG	1SFA197008R1043	1	0.020
Blue	P9PLNVJL	1SFA197009R1044	1	0.020
White	P9PLNVJB	1SFA197007R1045	1	0.020
Rated voltage 230 V AC				
Red	P9PLNVNR	1SFA197016R1071	1	0.020
Green	P9PLNVNV	1SFA197017R1072	1	0.020
Yellow	P9PLNVNG	1SFA197014R1073	1	0.020
Blue	P9PLNVNL	1SFA197015R1074	1	0.020
White	P9PLNVNB	1SFA197013R1075	1	0.020

Flashing Light

Color	Type	Order code	Pkg qty	Weight (1 pce) kg
Rated voltage 24 V AC/DC				
Red	P9PLFVDR	1SFA197022R1011	1	0.020
Green	P9PLFVDV	1SFA197023R1012	1	0.020
Yellow	P9PLFVDG	1SFA197020R1013	1	0.020
Blue	P9PLFVDL	1SFA197021R1014	1	0.020
White	P9PLFVDB	1SFA197019R1015	1	0.020
Orange	P9PLFVDA	1SFA197018R1019	1	0.020
Rated voltage 120 V AC				
Red	P9PLFVJR	1SFA197028R1041	1	0.020
Yellow	P9PLFVJG	1SFA197026R1043	1	0.020
White	P9PLFVJB	1SFA197025R1045	1	0.020
Rated voltage 230 V AC				
Red	P9PLFVNR	1SFA197034R1071	1	0.020
Yellow	P9PLFVNG	1SFA197032R1073	1	0.020
White	P9PLFVNB	1SFA197031R1075	1	0.020



P9PL

Dimensions (mm, inches)

Modular metal range

Accessories


1SFC151463V0001

P9ACRCL


1SFC151628V0001

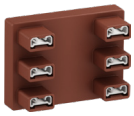
P9ACDPP


1SFC151625V0001

P9ACWAF


1SFC151464V0001

P9ARAM32


1SFC151462V0001

P9ACA6

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		P9ACRCL	1SFA187840R8000	1	0.039
Maintained accessory					
Device for standard pushbuttons, illuminated pushbuttons: To be used only with contact blocks P9B01VN, P9B01VR, P9B10VA and P9B01FN		P9ACDPP	1SFA187843R8000	1	0.012
Tools					
Locking ring wrench		P9ACWAF	1SFA187845R8000	1	0.037
Adapter ring					
Adapter ring for 30 mm hole to mount P9 22 mm in a 30 mm hole		P9ARAM32	1SFA188801R8000	1	0.006
Terminal adapter					
PCB adapter for faston contacts		P9ACA6	1SFA188804R8000	1	0.051


1SFC151460V0001

080CPR


1SFC151461V0001

080CPN

1SFC151465V0001

P9ARCST

Rubber protective caps (IP66) for standard pushbuttons

Flush pushbuttons

Description Nitrile rubber	Type	Order code	Pkg qty	Weight (1 pce) kg
● Red	080CPR	1SFA170191R8000	1	0.004
● Green	080CPV	1SFA170192R8000	1	0.004
● Black	080CPN	1SFA170190R8000	1	0.004
○ Clear	080CPT	1SFA170198R8000	1	0.004
Extended pushbuttons				
○ Clear	P9ARCST	1SFA187490R8000	1	0.004

Modular metal range

Metal enclosures with holes and accessories



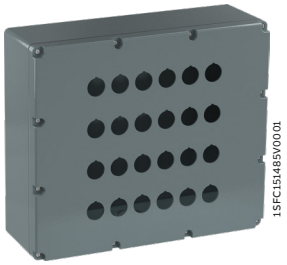
080SP8



080SP12



080SP18



080SP24

Enclosure with holes for pilot devices

Empty enclosures in aluminium, IP66. Grey color.

Description	Hole types	Type	Order code	Pkg qty	Weight (1 pce) kg
With hole for cable gland					
1-seat	1	080SP1	1SFA170801R1001	1	0.313
2-seat	2	080SP2	1SFA170802R1002	1	0.440
3-seat	3	080SP3	1SFA170803R1003	1	0.695
4-seat	4	080SP4	1SFA170804R1004	1	0.435
6-seat	6	080SP6	1SFA170806R1006	1	0.694
8-seat	8	080SP8	1SFA170807R1008	1	0.932
12-seat	12	080SP12	1SFA170808R1012	1	1.685
18-seat	18	080SP18	1SFA170809R1018	1	2.891
24-seat	24	080SP24	1SFA170810R1024	1	2.912
With hole for cable gland and deep base					
1-seat	1M	080SP1M	1SFA170831R1001	1	0.402
2-seat	2M	080SP2M	1SFA170832R1002	1	0.540
4-seat	4M	080SP4M	1SFA170834R1004	1	0.530
Without hole for cable gland					
1-seat	1	080SP1SFE	1SFA170836R3001	1	0.335
2-seat	2	080SP2SFE	1SFA170842R3002	1	0.442
3-seat	3	080SP3SFE	1SFA170848R3003	1	0.715
4-seat	4	080SP4SFE	1SFA170850R3004	1	0.453
6-seat	6	080SP6SFE	1SFA170852R3006	1	0.705
8-seat	8	080SP8SFE	1SFA170854R3008	1	0.990
12-seat	12	080SP12SFE	1SFA170857R3012	1	1.737
Without hole for cable gland and deep base					
1-seat	1M	080SP1MSFE	1SFA170839R3001	1	0.416

Modular metal range

Metal enclosures without holes



080SP8SFC



080SP8SF

Enclosure without holes for pilot devices

Empty enclosures in aluminium, IP66. Grey color.

Description	Hole types	Type	Order code	Pkg qty	Weight (1 pce) kg
With hole for cable gland					
	1	080SP1SFC	1SFA170835R2000	1	0.324
	2	080SP2SFC	1SFA170841R2000	1	0.444
	3	080SP3SFC	1SFA170847R2000	1	0.708
	8	080SP8SFC	1SFA170853R2000	1	0.977
	12	080SP12SFC	1SFA170856R2000	1	1.720
	18	080SP18SFC	1SFA170859R2000	1	2.948
With hole for cable gland and deep base					
	1M	080SP1MSFC	1SFA170838R2000	1	0.405
	2M	080SP2MSFC	1SFA170844R2000	1	0.542
Without hole for cable gland					
	1	080SP1SF	1SFA170837R4000	1	0.333
	2	080SP2SF	1SFA170843R4000	1	0.446
	3	080SP3SF	1SFA170849R4000	1	0.735
	8	080SP8SF	1SFA170855R4000	1	1.019
	12	080SP12SF	1SFA170858R4000	1	1.775
	18	080SP18SF	1SFA170861R4000	1	3.050
Without hole for cable gland and deep base					
	1M	080SP1MSF	1SFA170840R4000	1	0.414
	2M	080SP2MSF	1SFA170846R4000	1	0.553

Modular metal range

Technical data

Standards and approvals

IEC / EN 60947-1	Low Voltage switchgear and controlgear - Part 1: General rules
IEC / EN 60947-5-1	Low Voltage switchgear and controlgear - 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	-

Temperature

Ambient temperature during operation	-30 to +70 °C
Storage temperature	-40 to +70 °C

Terminals

Screws

Connectable area	min. 1 x 0.34 mm2 /AWG 22 max. 2 x 4 mm2/2 x AWG 12

Tightening torque

Operators locking nut	Min. 2 Nm / Max. 2.3 Nm
Cable terminals	0.9 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, Ui		690 V
Rated thermal current, Ith		10 A
Rated operational current, Ie Utilization category AC 15,	at: 24 V	10 A
	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, Ie utilisation category DC 13,	at: 24 V	2.5 A
	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	Uimp	4 kV

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 Toggle switches	Max 4	–
Maintained mushroom pushbuttons	Max 4	–
Illuminated pushbuttons Illuminated momentary mushroom pushbuttons Illuminated selector switches	Max 4	Max 4
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

Modular metal range

Technical data

Mechanical endurance

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

Performances of the contacts

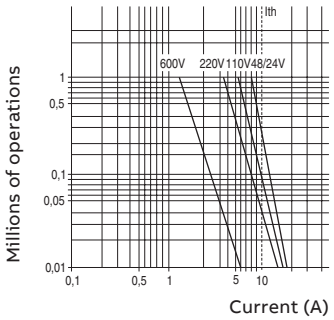
- Slow acting
- Self-cleaning sliding
- NC forced breaking
- Double movable bridge
- Four switching points
- Double break

Identification of the terminals

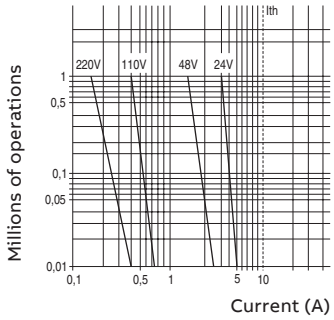
According EN 50013

Electrical endurance

Alternative current 50/60Hz cat. AC 15



Direct current cat. DC 13



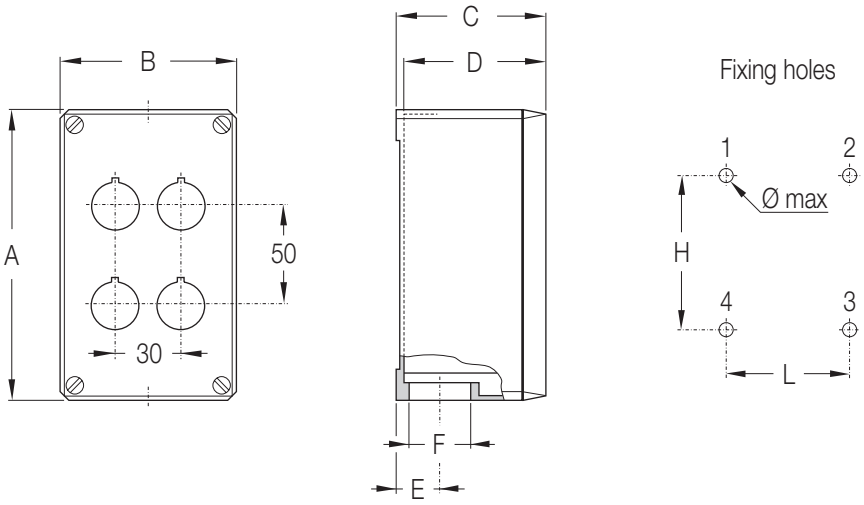
Rear panel modularity

The P9 series is composed with 10 mm or a multiple of 10 mm modular units, fitted side by side on a proper mounting flange.
The standard operators are supplied with a three position flange with a capacity of 3 units of 10 mm or 1 of 10 mm and 1 of 20 mm or 1 of 30 mm.
When the three position flange is not enough to satisfy the applications needs, the five position flange is required to add two more units of 10 mm mounted side by side.
Using the five position flange take into account the bigger with (50 mm instead of 30 mm).

1SFC151105O0201

Modular metal range

Dimension



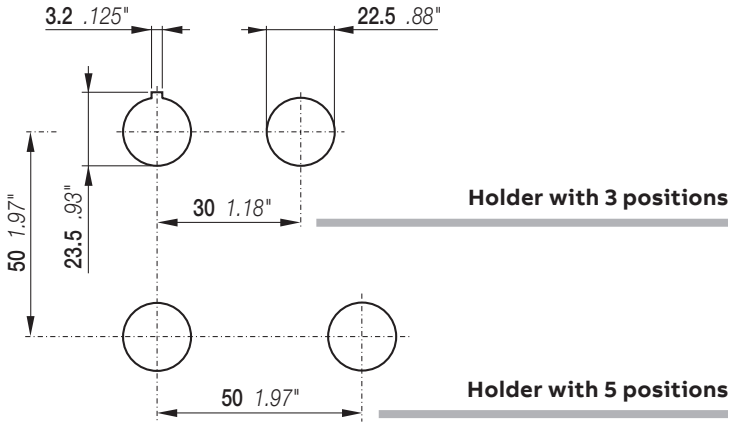
Hole type	Holes Ø 22		Dimensions											Fixing templates		
	Vertic.	Horizont.	A		B		C		D		E		F	H x L x Ø max		Position of the holes
			mm	in	mm	in	mm	in	mm	in	mm	in		mm	in	
1	1	-	87	3.43	87	3.43	75	2.95	72	72	21.5	0.85	PG 21	74x55x4	2.91x2.17x0.16	1-3
1M	1	-	87	3.43	87	3.43	100	3.94	97	97	21.5	0.85	PG 21	68x55x4	2.68x2.17x0.16	1-3
2	2	-	145	5.71	87	3.43	75	2.95	72	72	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	97	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	97	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	72	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	97	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	97	21.5	0.85	PG 21	176x55x4	6.93x2.17x0.16	1-3
8	2	4	152	5.98	152	5.98	101.5	4	98.5	98.5	27	1.06	PG 29	136x119x6	5.35x4.69x0.24	1-2-3-4
12	3	4	205	8.07	230	9.06	101.5	4	98.5	98.5	27	1.06	PG 29	172x214x6	6.77x8.43x0.24	1-2-3-4
18	3	6	257	10.12	300	11.81	101.5	4	98.5	98.5	35	1.38	PG 36	221x282x6	8.7x11.1x0.24	1-2-3-4
24	4	6	257	10.12	300	11.81	101.5	4	98.5	98.5	35	1.38	PG 36	221x282x6	8.7x11.1x0.24	1-2-3-4

1SPC151102S0201

Modular metal range
Drilling plan

Mounting

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



Pilot devices
Compact range

Ordering details

89 Non-illuminated pushbuttons
93 Illuminated pushbuttons
97 Mushroom pushbuttons
98 Emergency stop pushbuttons
99 Machine stop pushbuttons
100 Heavy duty pushbuttons
901 Pilot lights
103 Pilot lights BA 9s
103 LED bulbs
105 Selector switches
107 Buzzers

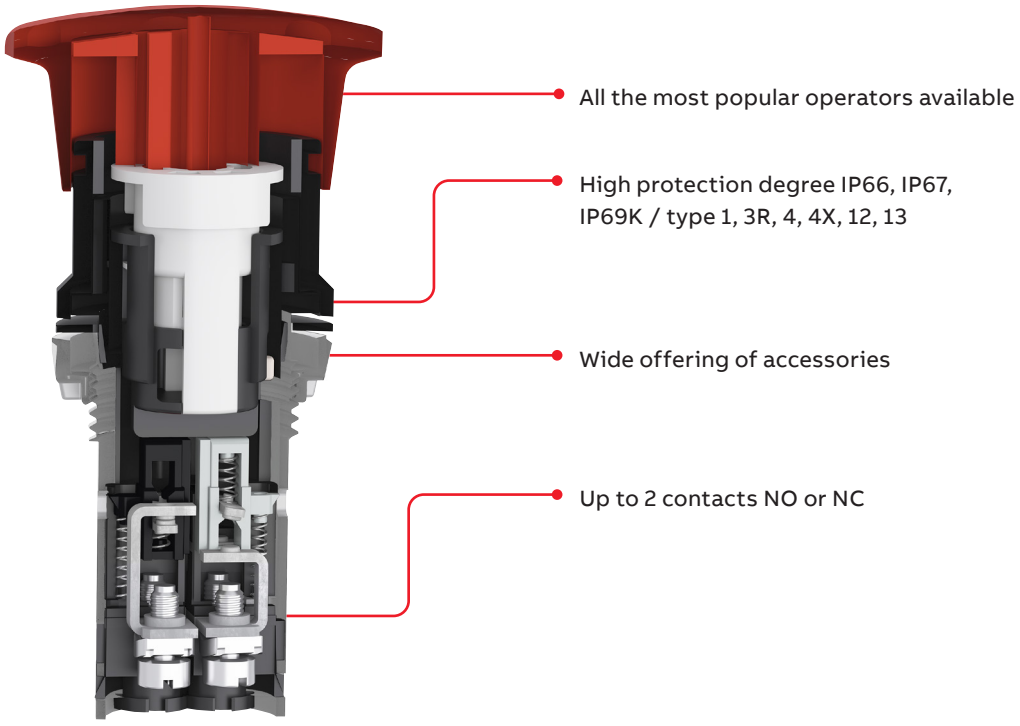
108 Accessories

110 Technical data

116 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


1SFC151176V0001

CP1-10R-10


1SFC151179V0001

CP1-30G-10


1SFC151184V0001

CP1-10Y-10


1SFC151182V0001

CP1-10L-10

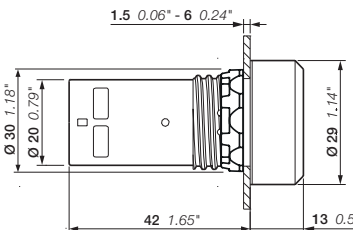

1SFC151175V0001

CP1-30W-10


1SFC151180V0001

CP1-10B-10

Operator	Bezel	Contacts	Type	Order code	Pkg qty	Weight (1 pce)
						kg
● Red	Black plastic	1 0	CP1-10R-10	1SFA619100R1011	10	0.018
		0 1	CP1-10R-01	1SFA619100R1041	10	0.018
		1 1	CP1-10R-11	1SFA619100R1071	10	0.022
		2 0	CP1-10R-20	1SFA619100R1021	10	0.022
		0 2	CP1-10R-02	1SFA619100R1051	10	0.022
	Chrome metal	1 0	CP1-30R-10	1SFA619100R3011	10	0.032
		0 1	CP1-30R-01	1SFA619100R3041	10	0.032
		1 1	CP1-30R-11	1SFA619100R3071	10	0.036
		2 0	CP1-30R-20	1SFA619100R3021	10	0.036
		0 2	CP1-30R-02	1SFA619100R3051	10	0.036
● Green	Black plastic	1 0	CP1-10G-10	1SFA619100R1012	10	0.018
		1 1	CP1-10G-11	1SFA619100R1072	10	0.022
		2 0	CP1-10G-20	1SFA619100R1022	10	0.022
	Chrome metal	1 0	CP1-30G-10	1SFA619100R3012	10	0.032
		1 1	CP1-30G-11	1SFA619100R3072	10	0.036
		2 0	CP1-30G-20	1SFA619100R3022	10	0.036
● Yellow	Black plastic	1 0	CP1-10Y-10	1SFA619100R1013	10	0.018
		1 1	CP1-10Y-11	1SFA619100R1073	10	0.022
		2 0	CP1-10Y-20	1SFA619100R1023	10	0.022
	Chrome metal	1 0	CP1-30Y-10	1SFA619100R3013	10	0.032
		1 1	CP1-30Y-11	1SFA619100R3073	10	0.036
		2 0	CP1-30Y-20	1SFA619100R3023	10	0.036
● Blue	Black plastic	1 0	CP1-10L-10	1SFA619100R1014	10	0.018
		1 1	CP1-10L-11	1SFA619100R1074	10	0.022
		2 0	CP1-10L-20	1SFA619100R1024	10	0.022
	Chrome metal	1 0	CP1-30L-10	1SFA619100R3014	10	0.032
		1 1	CP1-30L-11	1SFA619100R3074	10	0.036
		2 0	CP1-30L-20	1SFA619100R3024	10	0.036
○ White	Black plastic	1 0	CP1-10W-10	1SFA619100R1015	10	0.018
		1 1	CP1-10W-11	1SFA619100R1075	10	0.022
		2 0	CP1-10W-20	1SFA619100R1025	10	0.022
	Chrome metal	1 0	CP1-30W-10	1SFA619100R3015	10	0.032
		1 1	CP1-30W-11	1SFA619100R3075	10	0.036
		2 0	CP1-30W-20	1SFA619100R3025	10	0.036
● Black	Black plastic	1 0	CP1-10B-10	1SFA619100R1016	10	0.018
		0 1	CP1-10B-01	1SFA619100R1046	10	0.018
		1 1	CP1-10B-11	1SFA619100R1076	10	0.022
		2 0	CP1-10B-20	1SFA619100R1026	10	0.022
		0 2	CP1-10B-02	1SFA619100R1056	10	0.022
	Chrome metal	1 0	CP1-30B-10	1SFA619100R3016	10	0.032
		0 1	CP1-30B-01	1SFA619100R3046	10	0.032
		1 1	CP1-30B-11	1SFA619100R3076	10	0.036
		2 0	CP1-30B-20	1SFA619100R3026	10	0.036
		0 2	CP1-30B-02	1SFA619100R3056	10	0.036



CP1

Dimensions (mm, inches)

Compact range

Non-illuminated flush pushbuttons - Maintained



CP2-10R-10



CP2-10G-10



CP2-10Y-10



CP2-30L-10

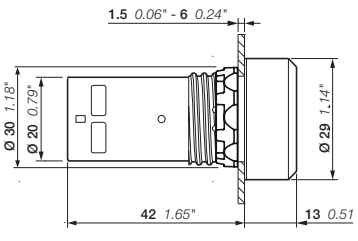


CP2-10W-10



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


1SFC151198V0001

CP3-10R-10


1SFC151204V0001

CP3-10G-10


1SFC151197V0001

CP3-30Y-10


1SFC151194V0001

CP3-10L-10

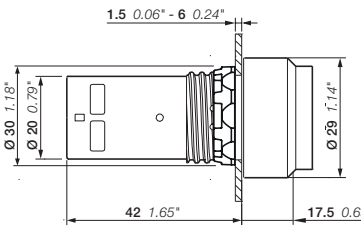

1SFC151203V0001

CP3-30W-10


1SFC151200V0001

CP3-10B-10

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



CP3

Dimensions (mm, inches)

Compact range

Non-illuminated extended pushbuttons - Maintained


1SFC151199V0001

CP4-30R-11


1SFC151205V0001

CP4-30G-10


1SFC151196V0001

CP4-10Y-10


1SFC151194V0001

CP4-10L-10

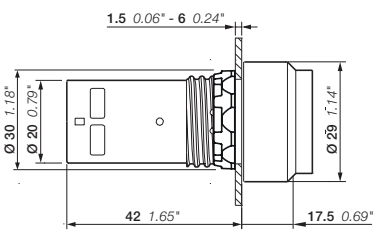

1SFC151202V0001

CP4-10W-10


1SFC151200V0001

CP4-10B-10

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
	Chrome metal	1 1	CP4-30R-11	1SFA619103R3071	10	0.036
● Green	Black plastic	1 0	CP4-10G-10	1SFA619103R1012	10	0.019
		1 1	CP4-10G-11	1SFA619103R1072	10	0.022
		2 0	CP4-10G-20	1SFA619103R1022	10	0.022
	Chrome metal	1 0	CP4-30G-10	1SFA619103R3012	10	0.033
		2 0	CP4-30G-20	1SFA619103R3022	10	0.036
● Yellow	Black plastic	1 0	CP4-10Y-10	1SFA619103R1013	10	0.019
		1 1	CP4-10Y-11	1SFA619103R1073	10	0.022
● Blue	Black plastic	1 0	CP4-10L-10	1SFA619103R1014	10	0.019
		1 1	CP4-10L-11	1SFA619103R1074	10	0.022
○ White	Black plastic	1 0	CP4-10W-10	1SFA619103R1015	10	0.019
		1 1	CP4-10W-11	1SFA619103R1075	10	0.022
● Black	Black plastic	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)

1SFC151038S0201

Compact range

Illuminated flush pushbuttons - Momentary



CP1-11R-10



CP1-11G-10



CP1-31Y-10

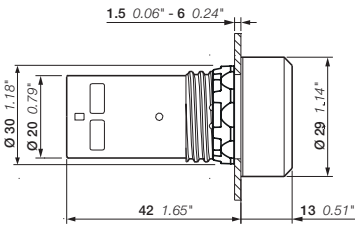


CP1-11L-10



CP1-31C-10

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



CP1

Dimensions (mm, inches)

Compact range

Illuminated flush pushbuttons - Maintained



1SFC151188V0001

CP2-11G-10



1SFC151150V0001

CP2-11Y-10



1SFC151149V0001

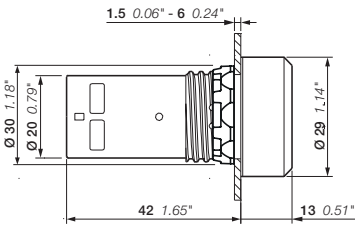
CP1-11L-10



1SFC151152V0001

CP2-11C-10

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



1SFC151210V0001

CP3-11R-10



1SFC151213V0001

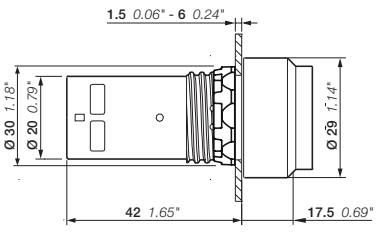
CP3-11G-10



1SFC151208V0001

CP3-11Y-10

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



1SFC151210V0001

CP4-11R-10



1SFC151213V0001

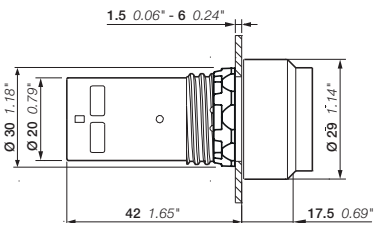
CP4-11G-10



1SFC151208V0001

CP4-11Y-10

Operator	Bezel	Contacts	Type	Order code	Pkg qty	Weight (1 pce)
						kg
Rated voltage 24 V AC / DC						
● Red	Black plastic	1 0	CP4-11R-10	1SFA619103R1111	10	0.025
		0 1	CP4-11R-01	1SFA619103R1141	10	0.025
● Green	Black plastic	1 0	CP4-11G-10	1SFA619103R1112	10	0.025
● Yellow	Black plastic	1 0	CP4-11Y-10	1SFA619103R1113	10	0.025
● Blue	Black plastic	1 0	CP4-11L-10	1SFA619103R1114	10	0.025
○ Clear	Black plastic	1 0	CP4-11C-10	1SFA619103R1118	10	0.025
Rated voltage 110...130 V AC / DC						
● Red	Black plastic	1 0	CP4-12R-10	1SFA619103R1211	10	0.025
		0 1	CP4-12R-01	1SFA619103R1241	10	0.025
● Green	Black plastic	1 0	CP4-12G-10	1SFA619103R1212	10	0.025
● Yellow	Black plastic	1 0	CP4-12Y-10	1SFA619103R1213	10	0.025
● Blue	Black plastic	1 0	CP4-12L-10	1SFA619103R1214	10	0.025
○ Clear	Black plastic	1 0	CP4-12C-10	1SFA619103R1218	10	0.025
Rated voltage 220 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)

1SFC151042S0201

Compact range

Non-illuminated mushroom pushbuttons - Momentary



CPM3-10R-11



CPM3-10G-11



CPM3-10Y-11

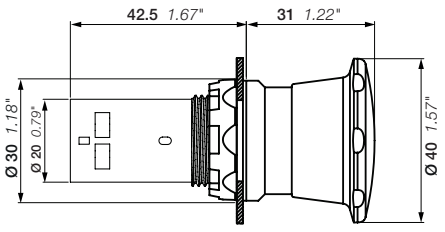


CPM3-10L-11



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



CE3K1-10R-01



CE4T-10R-01



CE4P-10R-01

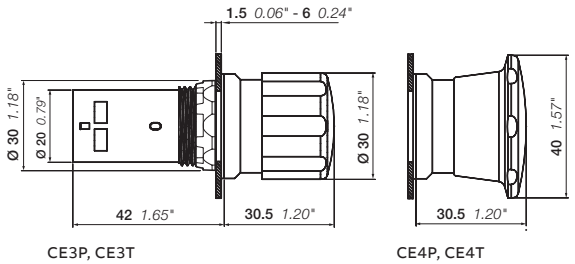


CE4K1-10R-02

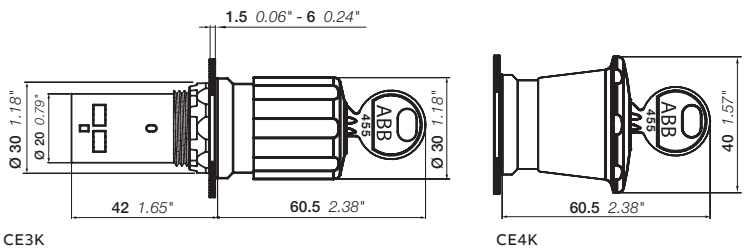
Description

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



CE3T-10B-11



CE3P-10B-11

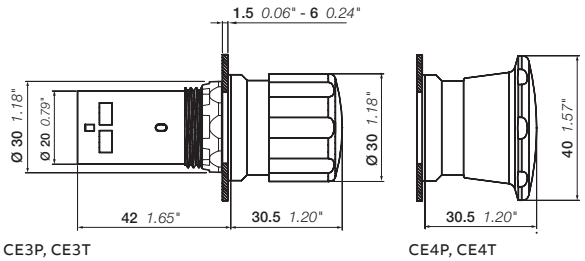


CE4T-10B-11

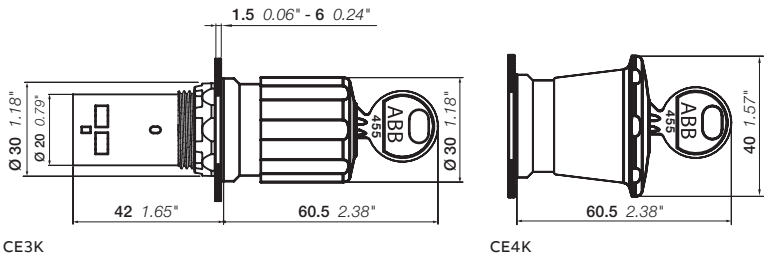


CE4P-10B-11

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
● Black	Key code 455	1 1	CE3K1-10B-11	1SFA619502R1076	1	0.060
Ø 40 mm						
● Black	Twist release	1 0	CE4T-10B-10	1SFA619550R1016	1	0.032
		0 1	CE4T-10B-01	1SFA619550R1046	1	0.032
		1 1	CE4T-10B-11	1SFA619550R1076	1	0.032
		2 0	CE4T-10B-20	1SFA619550R1026	1	0.032
		0 2	CE4T-10B-02	1SFA619550R1056	1	0.032
● Black	Pull release	1 1	CE4P-10B-11	1SFA619551R1076	1	0.032
● Black	Key code 455	1 1	CE4K1-10B-11	1SFA619552R1076	1	0.064



CE3P, CE3T CE4P, CE4T



CE3K CE4K

Dimensions (mm, inches)

Compact range

Heavy duty pushbuttons



1SFC151025V0001

CP6-10R-11



1SFC151024V0001

CP6-10G-11



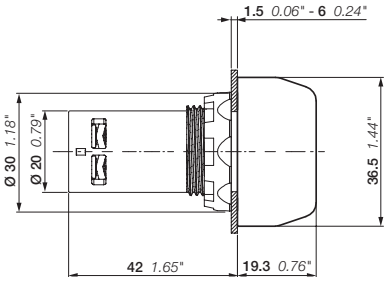
1SFC151023V0001

CP6-10B-11

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



CL2-506G



CL2-508Y



CL2-506L



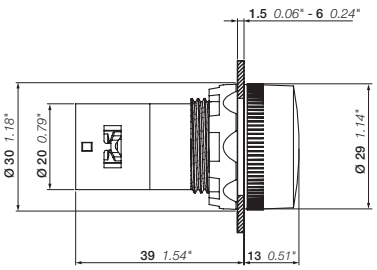
CL2-506C

Description

Integrated LED, no bulb needed.

Color	Rated current	Anti-inductive voltage	Wavelength	Illumination	Type	Order code	Pkg qty	Weight (1 pce)
	mA	Vpeak	nm	lx				kg
Voltage 6.3 V								
Red	16	2	625	70	CL2-506R	1SFA619403R5061	10	0.016
Green	16	2	520	125	CL2-506G	1SFA619403R5062	10	0.016
Yellow	16	2	590	75	CL2-506Y	1SFA619403R5063	10	0.016
Blue	16	2	470	10	CL2-506L	1SFA619403R5064	10	0.016
Clear	16	2	(1)	290	CL2-506C	1SFA619403R5068	10	0.016
Voltage 12 V DC								
Red	16	2	625	110	CL2-501R	1SFA619403R5011	10	0.016
Green	16	2.5	520	165	CL2-501G	1SFA619403R5012	10	0.016
Yellow	16	2.5	590	85	CL2-501Y	1SFA619403R5013	10	0.016
Blue	16	2.5	470	15	CL2-501L	1SFA619403R5014	10	0.016
Clear	16	2.5	(1)	320	CL2-501C	1SFA619403R5018	10	0.016
Voltage 24 V AC / DC								
Red	16	6	625	80	CL2-502R	1SFA619403R5021	10	0.016
Green	16	6	520	135	CL2-502G	1SFA619403R5022	10	0.016
Yellow	16	6	590	55	CL2-502Y	1SFA619403R5023	10	0.016
Blue	16	6	470	10	CL2-502L	1SFA619403R5024	10	0.016
Clear	16	6	(1)	230	CL2-502C	1SFA619403R5028	10	0.016
Voltage 48 ... 60 V AC / DC								
Red	13-17	7	625	75	CL2-507R	1SFA619403R5071	10	0.016
Green	13-17	7	520	140	CL2-507G	1SFA619403R5072	10	0.016
Yellow	13-17	7	590	80	CL2-507Y	1SFA619403R5073	10	0.016
Blue	13-17	7	470	10	CL2-507L	1SFA619403R5074	10	0.016
Clear	13-17	7	(1)	260	CL2-507C	1SFA619403R5078	10	0.016
Voltage 110 ... 130 V AC								
Red	15-17	20	625	85	CL2-513R	1SFA619403R5131	10	0.016
Green	15-17	20	520	90	CL2-513G	1SFA619403R5132	10	0.016
Yellow	15-17	20	590	85	CL2-513Y	1SFA619403R5133	10	0.016
Blue	15-17	20	470	10	CL2-513L	1SFA619403R5134	10	0.016
Clear	15-17	20	(1)	340	CL2-513C	1SFA619403R5138	10	0.016
Voltage 110 ... 130 V DC								
Red	8-9	20	625	55	CL2-515R	1SFA619403R5151	10	0.016
Green	8-9	20	520	125	CL2-515G	1SFA619403R5152	10	0.016
Yellow	8-9	20	590	50	CL2-515Y	1SFA619403R5153	10	0.016
Blue	8-9	20	470	10	CL2-515L	1SFA619403R5154	10	0.016
Clear	8-9	20	(1)	210	CL2-515C	1SFA619403R5158	10	0.016

(1) X = 0.31, Y = 0.32



CL2

Dimensions (mm, inches)

Compact range
Pilot lights


1SFC151338V0001

CL2-502R


1SFC151339V0001

CL2-506G


1SFC151340V0001

CL2-508Y


1SFC151341V0001

CL2-506L


1SFC151342V0001

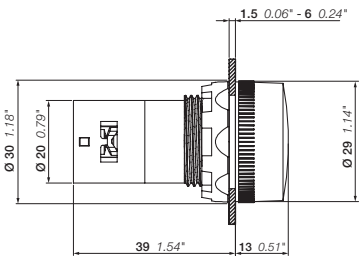
CL2-506C

Description

Integrated LED, no bulb needed.

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



1SFC151256V0001

CL-100R



1SFC151257V0001

CL-100L

Description

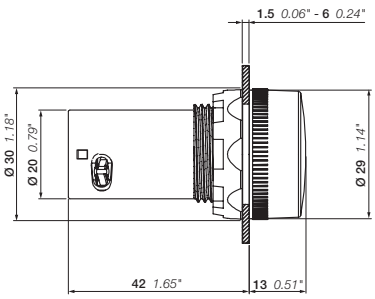
Bulb not included and should be ordered separately, see Accessories section for order codes and information.

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

Accessories for compact range

Flashing LED bulbs for CL-100 pilot lights

Color	Wavelength nm	Type	Order code	Pkg qty	Weight (1 pce) kg
Rated voltage 24 V DC rated current 25 mA, service life > 50 000 h					
Red	630	–	4950512-1	20	0.005
Green	565	–	4950512-2	20	0.005
Yellow	585	–	4950512-3	20	0.005



CL100

Dimensions (mm, inches)

Accessories for compact range

LED bulbs for CL-100 pilot lights



1SFC151178F0001

KA2...

Color	Wavelength	Luminance	Type	Order code	Pkg qty	Weight (1 pce)
	nm	mdc				kg
Rated voltage 12 V DC rated current 15 mA, service life > 50 000 h						
Red	630	250	KA2-2011	1SFA616921R2011	20	0.005
Green	525	1000	KA2-2012	1SFA616921R2012	20	0.005
Yellow	592	250	KA2-2013	1SFA616921R2013	20	0.005
Blue	470	450	KA2-2014	1SFA616921R2014	20	0.005
White	(1)	600	KA2-2015	1SFA616921R2015	20	0.005
Rated voltage 24 V (AC) / DC rated current 15 mA, service life > 50 000 h						
Red	630	250	KA2-2021	1SFA616921R2021	20	0.005
Green	525	800	KA2-2022	1SFA616921R2022	20	0.005
Yellow	592	250	KA2-2023	1SFA616921R2023	20	0.005
Blue	470	400	KA2-2024	1SFA616921R2024	20	0.005
White	(1)	500	KA2-2025	1SFA616921R2025	20	0.005
Rated voltage 36 V (AC) / DC rated current 12 mA, service life > 50 000 h						
Red	630	200	KA2-2031	1SFA616921R2031	20	0.005
Green	525	2000	KA2-2032	1SFA616921R2032	20	0.005
Yellow	592	200	KA2-2033	1SFA616921R2033	20	0.005
Blue	470	750	KA2-2034	1SFA616921R2034	20	0.005
White	(1)	1400	KA2-2035	1SFA616921R2035	20	0.005
Rated voltage 48 V (AC) / DC rated current 12 mA, service life > 50 000 h						
Red	630	200	KA2-2041	1SFA616921R2041	20	0.005
Green	525	1700	KA2-2042	1SFA616921R2042	20	0.005
Yellow	592	240	KA2-2043	1SFA616921R2043	20	0.005
Blue	470	720	KA2-2044	1SFA616921R2044	20	0.005
White	(1)	1200	KA2-2045	1SFA616921R2045	20	0.005
Rated voltage 60 V (AC) / DC rated current 10 mA, service life > 50 000 h						
Red	630	160	KA2-2051	1SFA616921R2051	20	0.005
Green	525	1400	KA2-2052	1SFA616921R2052	20	0.005
Yellow	592	200	KA2-2053	1SFA616921R2053	20	0.005
Blue	470	600	KA2-2054	1SFA616921R2054	20	0.005
White	(1)	1000	KA2-2055	1SFA616921R2055	20	0.005
Rated voltage 110 ... 130 V AC rated current 4-6 mA, service life 25 000 h						
Red	630	60-100	KA2-2131	1SFA616921R2131	20	0.005
Green	525	500-850	KA2-2132	1SFA616921R2132	20	0.005
Yellow	592	70-120	KA2-2133	1SFA616921R2133	20	0.005
Blue	470	220-350	KA2-2134	1SFA616921R2134	20	0.005
White	(1)	350-600	KA2-2135	1SFA616921R2135	20	0.005
Rated voltage 110 ... 130 V (AC) / DC rated current 4-6 mA, service life 25 000 h						
Red	630	60	KA2-2141	1SFA616921R2141	20	0.005
Green	525	500	KA2-2142	1SFA616921R2142	20	0.005
Yellow	592	70	KA2-2143	1SFA616921R2143	20	0.005
Blue	470	220	KA2-2144	1SFA616921R2144	20	0.005
White	(1)	350	KA2-2145	1SFA616921R2145	20	0.005
Rated voltage 230 V AC rated current 4 mA, service life 25 000 h						
Red	630	60	KA2-2221	1SFA616921R2221	20	0.005
Green	525	500	KA2-2222	1SFA616921R2222	20	0.005
Yellow	592	70	KA2-2223	1SFA616921R2223	20	0.005
Blue	470	220	KA2-2224	1SFA616921R2224	20	0.005
White	(1)	350	KA2-2225	1SFA616921R2225	20	0.005
Rated voltage 230 V (AC) / DC rated current 4 mA, service life 25 000 h						
Red	630	60	KA2-2231	1SFA616921R2231	20	0.005
Green	525	500	KA2-2232	1SFA616921R2232	20	0.005
Yellow	592	70	KA2-2233	1SFA616921R2233	20	0.005
Blue	470	220	KA2-2234	1SFA616921R2234	20	0.005
White	(1)	350	KA2-2235	1SFA616921R2235	20	0.005

Note: Choose the same color on the LED as on the lamp cap. (1) X=0.31, Y=0.32 according to the ICI chromaticity diagram.

1SFC151051S0201

Compact range

Non-illuminated selector switches - 2-position



C2SS1-10B-10



C2SS3-30B-10

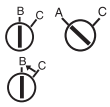
Description

Compact selector switches are delivered in black color.

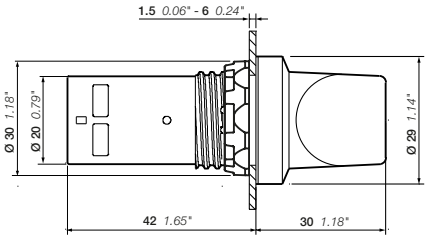
Operating principle	Bezel	Contacts	Type	Order code	Pkg qty	Weight (1 pce)
						kg
Short handle						
B C	Black plastic	1 0	C2SS1-10B-10	1SFA619200R1016	10	0.02
		0 1	C2SS1-10B-01	1SFA619200R1046	10	0.02
		1 1	C2SS1-10B-11	1SFA619200R1076	10	0.024
		2 0	C2SS1-10B-20	1SFA619200R1026	10	0.024
	Chrome metal	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
A C	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
B C	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						
A C	Chrome metal	1 0	C2SS5-30B-10	1SFA619204R3016	10	0.029
		1 1	C2SS5-30B-11	1SFA619204R3076	10	0.032

Contacts actuated

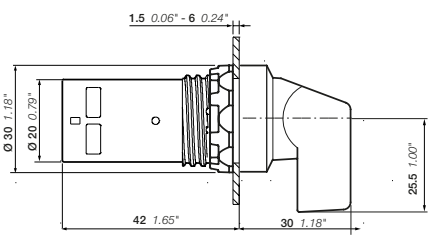
2-position selector switch
Contacts included,



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



C2SS, short handle



C2SS, long handle

Dimensions (mm, inches)

1SFC151046S0201

Compact range

Non-illuminated selector switches - 3-position



1SFC151255V0001

C3SS1-10B-11



1SFC151359V0001

C3SS2-30B-20

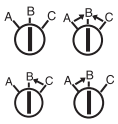
Description

Compact selector switches operators are delivered in black color.

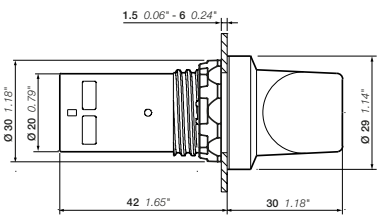
Operating principle	Bezel	Contacts	Type	Order code	Pkg qty	Weight (1 pce)
						kg
Short handle						
	Black plastic	1 1	C3SS1-10B-11	1SFA619210R1076	10	0.024
		2 0	C3SS1-10B-20	1SFA619210R1026	10	0.024
	Chrome metal	1 1	C3SS1-30B-11	1SFA619210R3076	10	0.032
		2 0	C3SS1-30B-20	1SFA619210R3026	10	0.032
	Black plastic	1 1	C3SS2-10B-11	1SFA619211R1076	10	0.024
		2 0	C3SS2-10B-20	1SFA619211R1026	10	0.024
	Chrome metal	1 1	C3SS2-30B-11	1SFA619211R3076	10	0.032
		2 0	C3SS2-30B-20	1SFA619211R3026	10	0.032
	Black plastic	1 1	C3SS3-10B-11	1SFA619212R1076	10	0.024
		2 0	C3SS3-10B-20	1SFA619212R1026	10	0.024
	Chrome metal	1 1	C3SS3-30B-11	1SFA619212R3076	10	0.032
		2 0	C3SS3-30B-20	1SFA619212R3026	10	0.032
	Black plastic	1 1	C3SS7-10B-11	1SFA619216R1076	10	0.024
		2 0	C3SS7-10B-20	1SFA619216R1026	10	0.024
	Chrome metal	2 0	C3SS7-30B-20	1SFA619216R3026	10	0.032
Long handle						
	Black plastic	1 1	C3SS4-10B-11	1SFA619213R1076	10	0.024
		2 0	C3SS4-10B-20	1SFA619213R1026	10	0.024
	Black plastic	1 1	C3SS5-10B-11	1SFA619214R1076	10	0.024
		2 0	C3SS5-10B-20	1SFA619214R1026	10	0.024
	Chrome metal	1 1	C3SS5-30B-11	1SFA619214R3076	10	0.032
		2 0	C3SS5-30B-20	1SFA619214R3026	10	0.032
	Black plastic	2 0	C3SS6-10B-20	1SFA619215R1026	10	0.024
	Black plastic	2 0	C3SS8-10B-20	1SFA619217R1026	10	0.024

Contacts actuated

3-position selector switch
Contacts included,

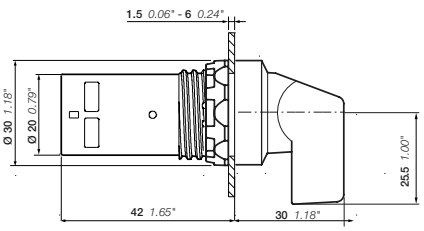


actuated in position:	A		C	
	NC	NO	NC	NO
	21	23	11	13
	22	24	12	14
2 NO	–	1	–	1
2 NC	1	–	1	–
1 NO + 1 NC	1	–	–	1



C3SS, short handle

Dimensions (mm, inches)



C3SS, long handle

Compact range
Buzzers


1SFC151157V0001

CB1-600G


1SFC151159V0001

CB1-610R


1SFC151158V0001

CB1-610Y

Illuminated

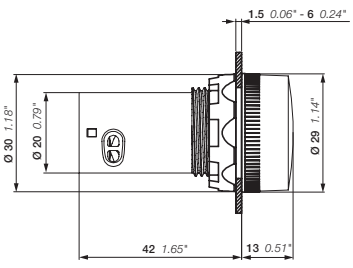
Color	Light and sound output	Rated current	Luminance	Type	Order code	Pkg qty	Weight (1 pce)
		mA	mcd				kg
Rated voltage 24 V AC / DC							
Green	Continuous	48	126	CB1-600G	1SFA619600R6002	10	0.021
Red	Pulsation	53	60	CB1-610R	1SFA619600R6101	10	0.021
Yellow	Pulsation	53	60	CB1-610Y	1SFA619600R6103	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


1SFC151160V0001

CB1-620B

Non-Illuminated

Color	Sound output	Rated current	Luminance	Type	Order code	Pkg qty	Weight (1 pce)
		mA	mcd				kg
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



MA1-8052



KA1-8010



KA1-8022/KA1-8021



SK616016-2



MA1-8153



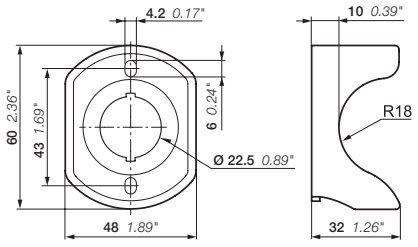
CA1-8054



CA1-8053

Description	Bezel / color	Type	Order code	Pkg qty	Weight (1pce) kg
30 mm adaptors 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 pad-lock and with 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 adaptor should be used with 2 contact blocks for rear mounting type MCB..B.



CA1

Dimensions (mm, inches)

Compact range
Accessories


1SFC151276V0001

CA1-8080


1SFC151455F0001

MDB-2


1SFC151275V0001

MA1-8015


1SFC151004F0001

MA1-8149


1SFC151385V0001

MA1-8019

Description	Bezel / color	Type	Order code	Pkg qty	Weight (1pce) kg
DIN-rail adaptator					
DIN-rail adaptor with 2 dummy block		CA1-8080	1SFA619920R8080	1	0.028
Dummy block		MDB-2	1SFA611630R1002	10	0.003

Note: Din-rail adaptor 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 adaptor

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		MA1-8019	1SFA611920R8019	10	0.001

Compact range
Technical data

Standards and approvals

IEC / EN 60947-1	Low Voltage switchgear and controlgear - Part 1: General rules
IEC / EN 60947-5-1	Low Voltage switchgear and controlgear - part 5-1: control circuit devices and switching elements - Electromechanical control circuit devices
IEC / EN 60947-5-5	Low Voltage switchgear and controlgear - 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 controlgear 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 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

Cable connections

Operator	Cable terminal
Pushbutton	Plus-minus Pozidriv No. 2 Connectable area: min. 1 x 0.5 mm2 / 1 x AWG22 max. 2 x 1.5 mm2 / 2 x AWG14
Selector switch	
Emergency stop	
Pilot light	Connectable area: min. 1 x 0.5 mm2 / 1 x AWG20 max. 2 x 2.5 mm2 / 2 x AWG14

Tightening torque

Operators locking nut	Min. 2 Nm / Max. 2.3 Nm
Cable terminals M3	0.8 Nm
Cable terminals M3.5	0.9 Nm

Short circuit protection

Max. fuse at 1 kA	gG 10A

Mechanical life

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

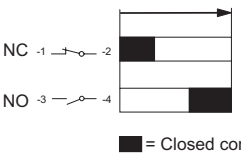
LED products (Pilot lights, illuminated pushbuttons)

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

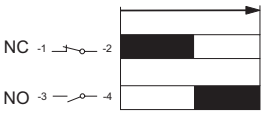
Make-and-break contacts

Pushbutton



= Closed contact

Emergency stop pushbutton



= Closed contact

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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, toulene).	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, Ui		300 V	
Rated thermal current, Ith		5 A	
Rated operational current, Ie Utilization category AC 15,	at: 240 V	1 A	
Rated operational current, Ie utilisation category DC 13,	at: 24 V	0.3 A	
	at: 125 V	0.2 A	
Rated impulse withstand voltage	Uimp	6 kV	
Pollution degree		3	
Ratings as per UL, CSA, NEMA		**C300** AC	**R300** DC
Rated insulation voltage		250 V	250 V
Rated thermal current		2.5 A	1 A
Rated operational current	at: 120 V	1.5 A	
	at: 125 V		0.22 A
	at: 240 V	0.75 A	
	at: 250 V		0.11 A
Short circuit protection			
Max. fuse at 1 kA		gG 10A	
Buzzer			
Short circuit protection			
Max. fuse at 1 kA		gG 10A	
Ratings as per IEC 60947-5-1			
Rated insulation voltage, Ui		300 V	
Rated impulse withstand voltage uimp		4 kV	
Rated frequency		50-60 Hz	
Sound level db		≥ 80 db /10 cm	
Product service life		> 5000 hours	
Signal output			
Audio frequency		6.7 kHz	

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Compact range
Technical data

Illuminated pushbuttons CP

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

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

Compact range
Technical data

Pilot light CL2

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

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

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Compact range
Technical data

Pilot light CL2

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

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

Compact range
Technical data

Buzzer CB

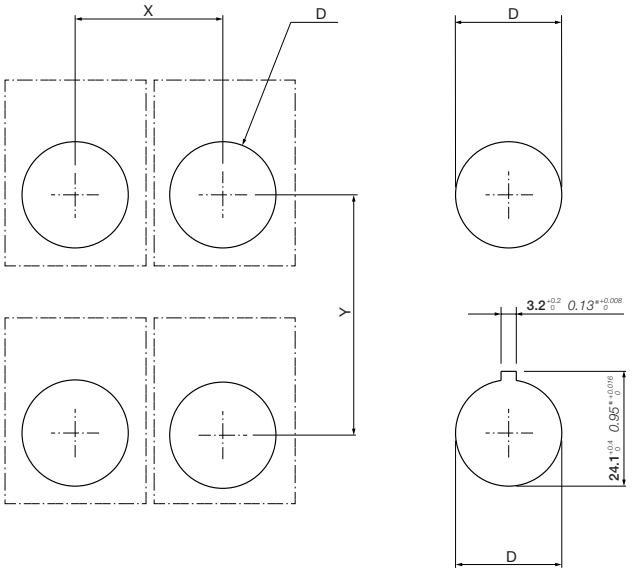
Color		Light and sound output		Current mA Min.	Current mA Max.	Illuminance lx Min.	Illuminance lx Max.	Sound press level (dB/10cm)
Voltage range 24 V AC / DC								
●	Red	Pulsation	63	75	150	450		≥90
●	Yellow	Pulsation	63	75	70	300		≥90
●	Green	Continuous	43	53	150	600		≥90
●	Black	Pulsation	58	72	–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

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

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Compact range

Drilling plan



Type	Description	X	Y	D		Panel thickness
				Ø mm	inch	
CP, CL, CSS, CB	Pushbutton, Pilot light, Selecor 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	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
119 Plastic enclosures for modular and compact range
120 Accessories for plastic enclosures
121 LED blocks for rear mounting
123 Legend plate holder
124 Legend plate for plastic enclosures MEP and CEP
125 Selector switches for vertical mounting
126 Assembled stations
127 Dimensions
128 Metal enclosures and accessories

129 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


1SFC151270V0001

MEPY1-0


1SFC151272V0001

MEP2-0


1SFC151274V0001

MEP3-0


1SFC151384V0001

MA1-8053


1SFC151384V0001

MA1-8152


1SFC151284V0001

CEP1-0


1SFC151285V0001

CEPY1-0


1SFC151287V0001

CA1-8054


1SFC151286V0001

CA1-8053

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 grey / light grey	M20 and Pg 13.5/ Pg16 and (M20)	MEP1-0	1SFA611811R1000	1	0.15
1-seat	Yellow / light grey	M20 and Pg 13.5/ Pg16 and (M20)	MEPY1-0	1SFA611821R1000	1	0.15
2-seat	Dark grey / light grey	M20 and Pg 13.5/ Pg16 and (M20)	MEP2-0	1SFA611812R1000	1	0.17
3-seat	Dark grey / light grey	M20 and Pg 13.5/ Pg16 and (M20)	MEP3-0	1SFA611813R1000	1	0.20
4-seat	Dark grey / light grey	M25/Pg 16 and (M20)	MEP4-0	1SFA611814R1000	1	0.23
6-seat	Dark grey / light grey	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	10	0.02
Grey			MA1-8152	1SFA611920R8152	10	0.02
Compact plastic enclosures						
Empty enclosure for compact range						
1-seat	Yellow / light grey	M20 and Pg 13.5/ Pg16 and (M20)	CEPY1-0	1SFA619821R1000	1	0.072
1-seat	Dark grey / light grey	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



MCB-11B



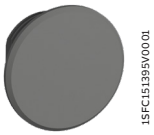
MCB-02B



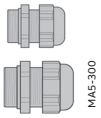
MCB-01BG



MA1-8129



MA5-8130



MA5-3001



MA1-8136

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
Earthing terminal					
For plastic enclosure		MA5-3005	1SFA611925R3005	10	0.005
Sealing ring for operator hole					
For plastic enclosure		MA1-8150	1SFA611920H8150	100	0.001
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 emergency stop		KA1-8045	1SFA616920R8045	10	0.004
Blanking plugs					
Grey		MA1-8129	1SFA611920R8129	10	0.005
Black		MA1-8130	1SFA611920R8130	10	0.005
Light grey		MA1-8136	1SFA611920R8136	10	0.005
Adaptor					
PG 16/M20		MA5-3010	1SFA611925R3010	10	0.010

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Enclosures

LED blocks for rear mounting



MLBL-00BW

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



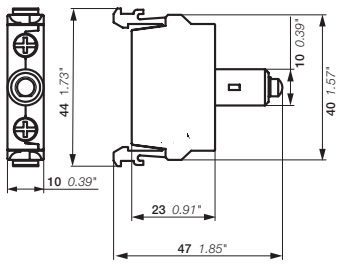
MLBL-07BW

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)

1SFC151058S0201

Enclosures

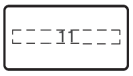
Legend plate holders and inserts



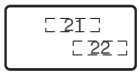
MA6-1060



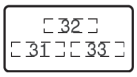
MA6-1061



1-position insert



2-postion 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 aluminium laminate.

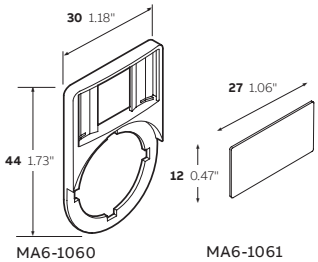
Description	Type	Order code	Pkg qty	Weight (1pce) kg
Legend plate holder				
Grey plastic	MA6-1060	1SFA611930R1060	10	0.002
Insert				
Without text or symbol	MA6-1061	1SFA611930R1061	10	0.001
1-position inserts				
O	MA6-1062	1SFA611930R1062	10	0.001
I	MA6-1063	1SFA611930R1063	10	0.001
II	MA6-1064	1SFA611930R1064	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)

1SFC151059S0201

Enclosures

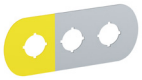
Legend plates for plastic enclosures MEP and CEP


MA6-1000 1SFC151264V0001


MA6-1002 1SFC151262V0001


MA6-1003 1SFC151267V0001


MA6-1006 1SFC151263V0001


MA6-1007 1SFC151268V0001


MA6-1024 1SFC151264V0001



MA6-1026 1SFC151390V0001

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	1	0.004
2-seat	without text	MA6-1002	1SFA611930R1002	1	0.006
3-seat	without text	MA6-1003	1SFA611930R1003	1	0.008
4-seat	without text	MA6-1004	1SFA611930R1004	1	0.010
6-seat	without text	MA6-1005	1SFA611930R1005	1	0.012
1-seat	O	MA6-1012	1SFA611930R1012	1	0.004
1-seat	I	MA6-1013	1SFA611930R1013	1	0.004
2-seat	O I	MA6-1014	1SFA611930R1014	1	0.006
3-seat	O I I	MA6-1015	1SFA611930R1015	1	0.008
3-seat	I O II	MA6-1016	1SFA611930R1016	1	0.008
Pos. 1 yellow plastic and aluminium laminate					
2-seat	without text	MA6-1006	1SFA611930R1006	1	0.006
3-seat	without text	MA6-1007	1SFA611930R1007	1	0.008
4-seat	without text	MA6-1008	1SFA611930R1008	1	0.010
6-seat	without text	MA6-1009	1SFA611930R1009	1	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

1SFC151061S0201

Enclosures

Selector switches for vertical mounting



M2SSV1-10B

Description

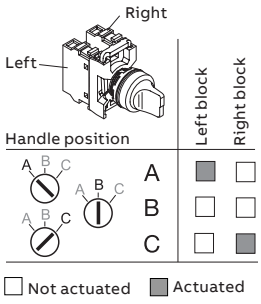
When ordering complete vertically mounted enclosures:
- Select selector switches for vertical mounting
- Select contact blocks and LED blocks for rear mounting.

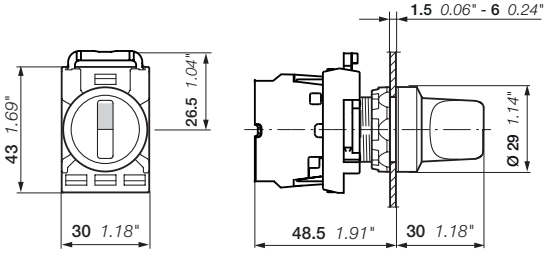
Per operator select between:
- One legend plate for vertical enclosures
- One spacer

Select cable gland.

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

Contacts actuated





M2SSV, M3SSV

Dimensions (mm, inches)

Enclosures

Assembled stations



1SFC151415V0001

MEPY1-1042



1SFC151387V0001

CEPY1-2001



1SFC151273V0001

MEP2-1001

Description

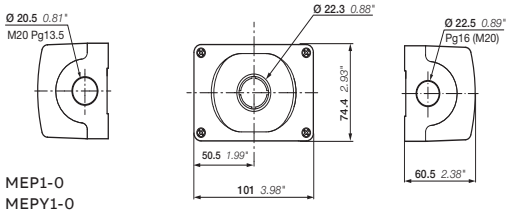
Assembled enclosures with emergency stop pushbuttons, yellow / light grey color designed according to the Safety of machinery standard EN/ISO 13850 for emergency stops.

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 grey color					
Twist release	0 2	MEPY1-1042	1SFA611821R1042	1	0.240
Twist release	2 1	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 grey 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 emergency stop pushbuttons					
Dark grey / light grey color					
Twist release	1 1	CEP1-1001	1SFA619811R1001	1	0.108
Pull release	1 1	CEP1-1002	1SFA619811R1002	1	0.108
Twist release, grey shroud	1 1	CEP1-2001	1SFA619811R2001	1	0.124
Pull release, grey shroud	1 1	CEP1-2002	1SFA619811R2002	1	0.124
2-seat plastic enclosure with modular pushbuttons					
Dark grey / light grey					
Two flush pushbuttons, momentary, black bezel					
● Green ● Red		MEP2-1001	1SFA611812R1001	1	0.220
1 NO 1 NC					
I 0					

Enclosures
Dimensions

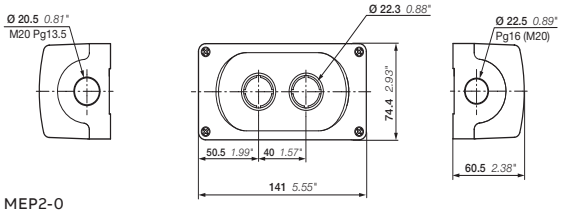
MEP plastic enclosures

1-seat



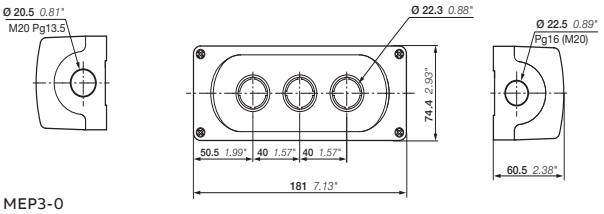
MEP1-0
MEPY1-0

2 seats



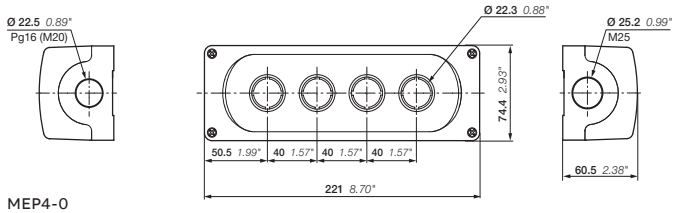
MEP2-0

3-seats



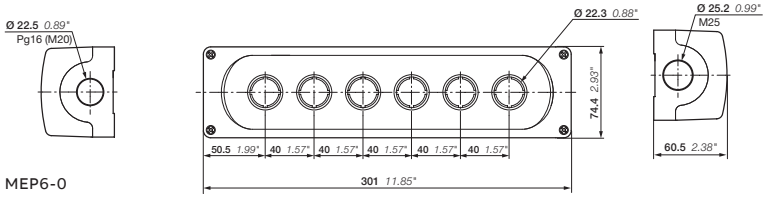
MEP3-0

4-seats

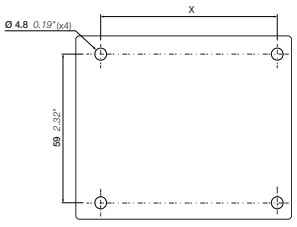


MEP4-0

6-seats



MEP6-0

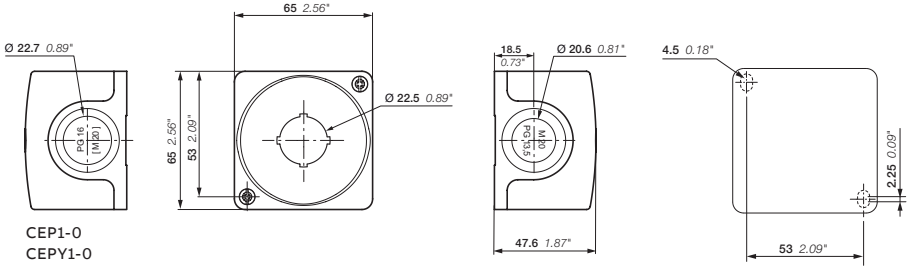


MEP drilling plan

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



CEP1-0
CEPY1-0

CEP drilling plan

Enclosures

Metal enclosures and accessories



KEM



SK1707685



SK1750152



SK172105-AE



MA1-8129



MA1-8130



MA1-8136

Description

When ordering complete enclosure:

- Select operators
- Select contact blocks and LED blocks for front mounting and holder
- Select cable gland (holes for cable glands Pg 16)
- For 4- and 6-seat enclosure select blanking plate.

Description	Color	Type	Order code	Pkg qty	Weight (1pce) kg
Empty cast aluminum enclosures for front mounted pilot devices. Degree of protection IP66, IP67 and IP69K.					
1-seat	Light grey	KEM1-0	SK616701-AA	1	0.40
2-seat	Light grey	KEM2-0	SK616702-AA	1	0.70
3-seat	Light grey	KEM3-0	SK616703-AA	1	0.80
4-seat	Light grey	KEM4-0	SK616704-AA	1	1.20
6-seat	Light grey	KEM6-0	SK616706-AA	1	1.40

Accessories

M	Pg	Diameter mm	Order code	Pkg qty	Weight (1pce) kg
Cable gland Metal, threaded outer sleeve					
22.5	16	8.5 ... 16	SK1707685	1	0.040
Metal hexagon nut For use with cable glands above					
22.5	16		SK1750152	1	0.010
Blanking plates without holes Metal, black, for 4- and 6-seat metal enclosures					
For flange opening	**Suitable flange gasket**				
FL 13	SK1704536		SK172105-AA	1	0.010

Note: Flange gasket not included

Blanking plates with holes Metal, black, for 4- and 6-seat metal enclosures					
For flange opening	**Suitable flange gasket**				
Two holes Hole centre distance 50 mm FL 13	M22.5 (Pg 16) SK1704536		SK172105-AD	1	0.110
Three holes Hole centre distance 38 mm FL 13	M22.5 (Pg 16) SK1704536		SK172105-AE	1	0.110

Note: Flange gasket not included

Flange gasket					
FL 13			SK1704536	1	0.005
Blanking plug For 22 mm-hole					
Grey		MA1-8129	1SFA611920R8129	10	0.005
Black		MA1-8130	1SFA611920R8130	10	0.005
Light grey		MA1-8136	1SFA611920R8136	10	0.005

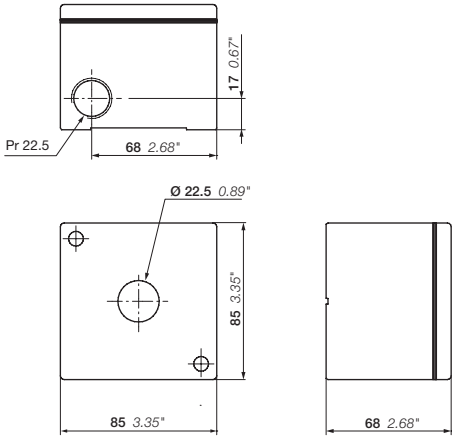
Note: Applicable to cover a 22 mm-hole in an enclosure instead of an operator. Gasket and nut included.

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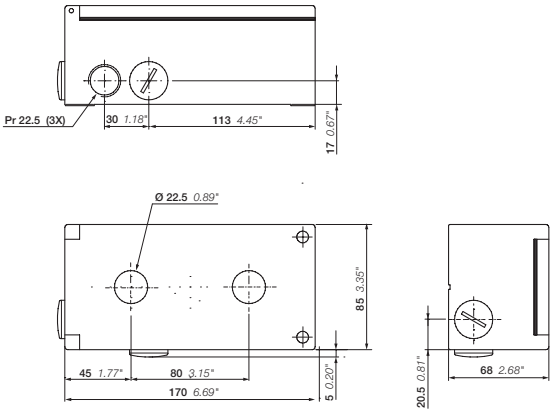
Enclosures
Dimensions

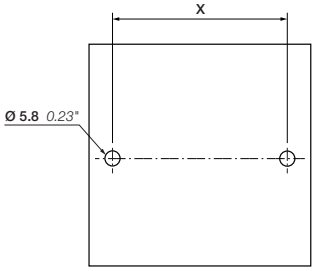
KEM metal enclosures

1-seat



2 and 3-seats KEM2-0, KEM3-0

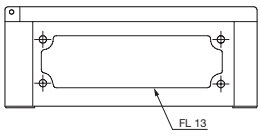


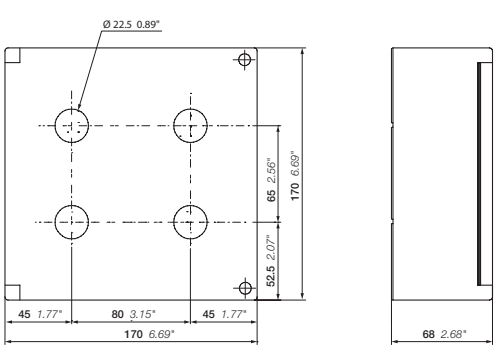


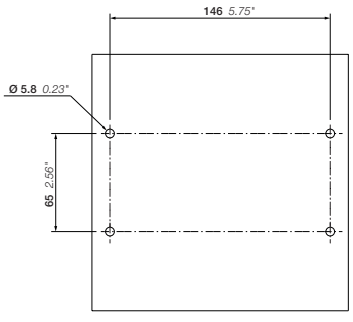
Type	X
1-seat	67 mm / 2.64"
2 and 3-seats	146 mm / 5.75"

1, 2 and 3-seats KEM drilling plan

4 or 6-seats KEM4-0, KEM6-0







4 or 6-seats KEM drilling plan

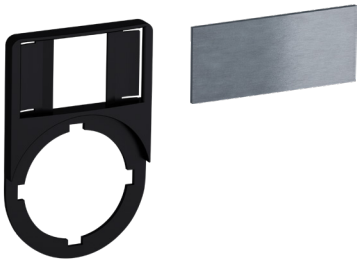
Legend plates and text caps

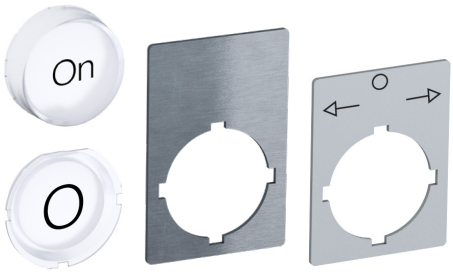
132 Legend plates
136 Text caps

Legend plates and text caps



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



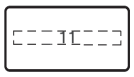


Legend plates and text caps

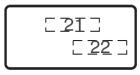
Legend plate holder with inserts



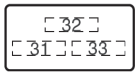
KA1-8120



1-position insert



2-postion insert



3-position insert

Description

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

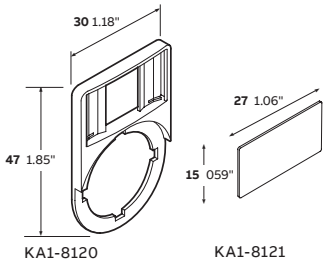
Description	Type	Order code	Pkg qty	Weight (1pce) kg
Legend plate holder				
Black plastic	KA1-8120	1SFA616920R8120	100	0.002
Insert				
Without text or symbol	KA1-8121	1SFA616920R8121	100	0.001
1-position inserts				
O	MA6-1032	1SFA611930R1032	10	0.001
I	MA6-1033	1SFA611930R1033	10	0.001
□	MA6-1034	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
Jog	Run	MA6-1078	1SFA611930R1078	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



KA1-8120 KA1-8121

Dimensions (mm, inches)

Legend plates and text caps

Legend plates for emergency stop



1SFC151388V0001

1SFA616915R1005



1SFC151386V0001

SK615546-2

Description

For Ø 22 mm operators installed in panel or KEM metal enclosure. Combine the emergency stops with the yellow legend plates without 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	–	1SFA616915R1038	10	0.003
Emergency stop	–	1SFA616915R1005	10	0.003
Not Aus	–	1SFA616915R6005	10	0.003
Aluminium 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
Nød Stop	–	SK615546-7	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 and KEM metal enclosures



MA16-1001



SK615552-14



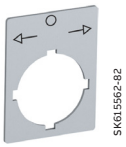
SK615550-6



SK615552-25



SK615550-81



SK615562-82

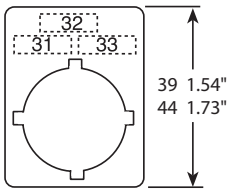
Description

For Ø 22 mm operators, made of silver-grey aluminium.

	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	–	SK615550-61	10	0.002
I	–	SK615550-62	10	0.002
→	–	SK615562-12	10	0.002
→→	–	SK615562-27	10	0.002
Close	–	SK615552-13	10	0.002
Down	–	SK615552-14	10	0.002
Emergency stop	–	SK615552-15	10	0.002
Fast	–	SK615552-16	10	0.002
Forward	–	SK615552-17	10	0.002
In	–	SK615550-29	10	0.002
Lower	–	SK615552-20	10	0.002
Off	–	SK615552-21	10	0.002
On	–	SK615552-22	10	0.002
Open	–	SK615552-23	10	0.002
Raise	–	SK615552-25	10	0.002
Reset	–	SK615552-27	10	0.002
Reverse	–	SK615552-28	10	0.002
Right	–	SK615552-40	10	0.002
Run	–	SK615552-29	10	0.002
Slow	–	SK615552-30	10	0.002
Start	–	SK615550-44	10	0.002
Stop	–	SK615552-31	10	0.002
Up	–	SK615552-32	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
→	O	→→	–	SK615562-83	10	0.002
Hand	O	Auto	–	SK615550-80	10	0.002



3-position engraved

Dimensions (mm, inches)

Legend plates and text caps

Text caps for illuminated pushbuttons and pilot lights



KTC1-1020



KTC1-9004



KTC1-1019



KTC2-1020



KTC3-1019



KTC3-1020

Description

To be mounted under the lens of illuminated pushbutton or pilot light to add symbol or text.
Choose only white text caps with illuminated products due to high opacity of the colored text caps.
Choose colored text caps in combination with clear lens.

Text/symbol	Color	Type	Order code	Pkg qty	Weight (1pce) kg
For flush pushbuttons					
Without text	White	KTC1-9000	1SFA616901R9000	10	0.001
START	White	KTC6-1042	1SFA616906R1042	10	0.001
R	White	KTC1-9009	1SFA616901R9009	10	0.001
On	White	KTC1-1020	1SFA616901R1020	10	0.001
ON	White	KTC1-1039	1SFA616901R1039	10	0.001
	Green	KTC6-1039	1SFA616906R1039	10	0.001
	Black	KTC8-1039	1SFA616908R1039	10	0.001
Off	White	KTC1-1019	1SFA616901R1019	10	0.001
Stop	White	KTC1-1031	1SFA616901R1031	10	0.001
STOP	Red	KTC4-1047	1SFA616904R1047	10	0.001
Reset	White	KTC1-1025	1SFA616901R1025	10	0.001
O	White	KTC1-9004	1SFA616901R9004	10	0.001
	Red	KTC4-9004	1SFA616904R9004	10	0.001
	Black	KTC8-9004	1SFA616908R9004	10	0.001
I	White	KTC1-9002	1SFA616901R9002	10	0.001
	Green	KTC6-9002	1SFA616906R9002	10	0.001
	Black	KTC8-9002	1SFA616908R9002	10	0.001
II	White	KTC1-9003	1SFA616901R9003	10	0.001
	Black	KTC8-9003	1SFA616908R9003	10	0.001
III	White	KTC1-9028	1SFA616901R9028	10	0.001
+	Black	KTC8-9011	1SFA616908R9011	10	0.001
-	Black	KTC8-9012	1SFA616908R9012	10	0.001
	White	KTC1-9005	1SFA616901R9005	10	0.001
	Black	KTC8-9005	1SFA616908R9005	10	0.001
	Black	KTC8-9015	1SFA616908R9015	10	0.001
	White	KTC1-9016	1SFA616901R9016	10	0.001
	Black	KTC8-9016	1SFA616908R9016	10	0.001
	White	KTC1-9006	1SFA616901R9006	10	0.001
	Black	KTC8-9018	1SFA616908R9018	10	0.001
	White	KTC1-9020	1SFA616901R9020	10	0.001
	White	KTC1-9026	1SFA616901R9026	10	0.001
	Black	KTC8-9026	1SFA616908R9026	10	0.001
For extended pushbuttons					
Without text	White	KTC2-9000	1SFA616902R9000	10	0.001
On	White	KTC2-1020	1SFA616902R1020	10	0.001
Off	Red	KTC5-1040	1SFA616905R1040	10	0.001
Stop	White	KTC2-1031	1SFA616902R1031	10	0.001
STOP	Red	KTC5-1047	1SFA616905R1047	10	0.001
Reset	White	KTC2-1025	1SFA616902R1025	10	0.001
O	Red	KTC5-9004	1SFA616905R9004	10	0.001
I	White	KTC2-9002	1SFA616902R9002	10	0.001
II	White	KTC2-9003	1SFA616902R9003	10	0.001
III	White	KTC2-9028	1SFA616902R9028	10	0.001
	White	KTC2-9005	1SFA616902R9005	10	0.001
	White	KTC2-9015	1SFA616902R9015	10	0.001
	White	KTC2-9016	1SFA616902R9016	10	0.001
	White	KTC2-9006	1SFA616902R9006	10	0.001
For pilot lights					
Without text	White	KTC3-9000	1SFA616903R9000	10	0.001
On	White	KTC3-1020	1SFA616903R1020	10	0.001
ON	White	KTC3-1039	1SFA616903R1039	10	0.001
Off	White	KTC3-1019	1SFA616903R1019	10	0.001
I	White	KTC3-9002	1SFA616903R9002	10	0.001

1SFC151068S0201

Pilot devices
Signal towers and signal beacons

Ordering details
139 Signal towers and signal beacons
141 Accessories
143 technical data
144 Dimensions and drilling plans

Signal towers and signal beacons



Signal towers
- Fast mounting of signal elements using bayonet fixing
- Easy changing of bulbs for each module without tools
- Flexibility of signal element combination
- Up to 5 elements possible/up to 10 elements with bracket for 2-sided mounting
- High protection rating optical and audible signal elements with IP54
- LED elements for long life

Signal beacons
- High protection rating IP65
- Cap consists of high impact polycarbonate (up to 20 J)
- Bulb change via inside of control box

Simple fitting with quick fix system
Each signal tower module is equipped with a bayonet fixing with integral contact system. The modules are fastened together by aligning the corresponding white marks then with a gentle twist they are locked into place (see the figures).

Signal towers and beacons
- Permanent light
- Blinking light
- Flashing light
- Audible
- LED permanent light
- LED blinking light
- LED rotating light

1SFC151084S0201

Signal towers and signal beacons

Signal towers - Light elements


1SFC151507F0001

KL70-401B


1SFC151508F0001

KL70-401Y


1SFC151509F0001

KA4-102...

Description

When ordering:

- Select up to 5 light elements
- Select up to 10 elements if bracket for 2-sided mounting is used
- Select up to 2 audible element (optional)
- Select bulb (optional)
- Select terminal element for preferred mounting type
- Select accessories for preferred mounting type.

Color	Rated voltage		Type	Order code	Pkg qty	Weight (1pce) kg
Light element with integrated LED						
Red	24 V AC/DC	Permanent light	KL70-305R	1SFA616070R3051	1	0.100
Green	24 V AC/DC	Permanent light	KL70-305G	1SFA616070R3052	1	0.100
Yellow	24 V AC/DC	Permanent light	KL70-305Y	1SFA616070R3053	1	0.100
Blue	24 V AC/DC	Permanent light	KL70-305L	1SFA616070R3054	1	0.100
Clear	24 V AC/DC	Permanent light	KL70-305C	1SFA616070R3058	1	0.100
Red	24 V AC/DC	Blinking light	KL70-306R	1SFA616070R3061	1	0.100
Green	24 V AC/DC	Blinking light	KL70-306G	1SFA616070R3062	1	0.100
Yellow	24 V AC/DC	Blinking light	KL70-306Y	1SFA616070R3063	1	0.100
Blue	24 V AC/DC	Blinking light	KL70-306L	1SFA616070R3064	1	0.100
Clear	24 V AC/DC	Blinking light	KL70-306C	1SFA616070R3068	1	0.100
Red	24 V AC/DC	Rotating light	KL70-307R	1SFA616070R3071	1	0.100
Green	24 V AC/DC	Rotating light	KL70-307G	1SFA616070R3072	1	0.100
Yellow	24 V AC/DC	Rotating light	KL70-307Y	1SFA616070R3073	1	0.100
Blue	24 V AC/DC	Rotating light	KL70-307L	1SFA616070R3074	1	0.100
Clear	24 V AC/DC	Rotating light	KL70-307C	1SFA616070R3078	1	0.100
Red	115 V AC	Blinking light	KL70-342R	1SFA616070R3421	1	0.100
Green	115 V AC	Blinking light	KL70-342G	1SFA616070R3422	1	0.100
Yellow	115 V AC	Blinking light	KL70-342Y	1SFA616070R3423	1	0.100
Blue	115 V AC	Blinking light	KL70-342L	1SFA616070R3424	1	0.100
Clear	115 V AC	Blinking light	KL70-342C	1SFA616070R3428	1	0.100
Red	230 V AC	Blinking light	KL70-352R	1SFA616070R3521	1	0.100
Green	230 V AC	Blinking light	KL70-352G	1SFA616070R3522	1	0.100
Yellow	230 V AC	Blinking light	KL70-352Y	1SFA616070R3523	1	0.100
Blue	230 V AC	Blinking light	KL70-352L	1SFA616070R3524	1	0.100
Clear	230 V AC	Blinking light	KL70-352C	1SFA616070R3528	1	0.100
Light element for bulb Ba 15d, bulb not included						
Red	12 ... 230 V AC/DC	Permanent light	KL70-401R	1SFA616070R4011	1	0.090
Green	12 ... 230 V AC/DC	Permanent light	KL70-401G	1SFA616070R4012	1	0.090
Yellow	12 ... 230 V AC/DC	Permanent light	KL70-401Y	1SFA616070R4013	1	0.090
Blue	12 ... 230 V AC/DC	Permanent light	KL70-401L	1SFA616070R4014	1	0.090
Clear	12 ... 230 V AC/DC	Permanent light	KL70-401C	1SFA616070R4018	1	0.090

Signal towers and signal beacons

Signal towers - Bulbs and audible modules



KL70-401B



KL70-401Y



KA4-102...

Description

When ordering:

- Select up to 5 light elements
- Select up to 10 elements if bracket for -sided mounting is used
- Select uo to 2 audible element (optional)
- Select bulb (optional)
- Select terminal element for prefered mounting type
- Select accessories for prefered mounting type.

Description	Rated voltage	Type	Order code	Pkg qty	Weight (1pce) kg
Bulbs for light element Bulb Ba 15d, 42 mm max 7 W					
For permanent or blinking light element	24 V AC/DC, 5 W	KA4-1028	1SFA616923R1028	10	0.009
For permanent or blinking light element	115 V AC/DC, 5 W	KA4-1118	1SFA616923R1118	10	0.009
For permanent or blinking light element	230 V AC/DC, 5 W	KA4-1148	1SFA616923R1148	10	0.009
LED bulbs Ba 15d, 40mA					
Red	24 V AC/DC	KA4-1021	1SFA616924R1021	1	0.009
Green	24 V AC/DC	KA4-1022	1SFA616924R1022	1	0.009
Yellow	24 V AC/DC	KA4-1023	1SFA616924R1023	1	0.009
Blue	24 V AC/DC	KA4-1024	1SFA616924R1024	1	0.009
Clear	24 V AC/DC	KA4-1025	1SFA616924R1025	1	0.009

Audible modules

Buzzer element Adjustable tone, 85 dB					
Continuous or pulsating tone	230 V AC	KB70-1201	1SFA616071R1201	1	0.120
Continuous or pulsating tone	24 V AC/DC	KB70-3001	1SFA616071R3001	1	0.110
Continuous or pulsating tone	115 V AC	KB70-3101	1SFA616071R3101	1	0.110
Siren element					
Multi function 8 diff. Tones adjustable volume adjustable 100 dB	115 V AC	KS70-1104	1SFA616073R1104	1	0.130
Multi function 8 diff. Tones adjustable volume adjustable 100 dB	230 V AC	KS70-1204	1SFA616073R1204	1	0.120
Multi function 7 diff. Tones adjustable volume adjustable 100 dB	24 V DC	KS70-2004	1SFA616073R2004	1	0.120
Multi function 8 diff. Tones adjustable volume adjustable 100 dB	24 V AC/DC	KS70-3004	1SFA616073R3004	1	0.120
Continuous tone alternating 108 dB	24 V DC	KS70-2002	1SFA616073R2002	1	0.150

Signal towers and signal beacons
Accessories


1SFC151510F0001

KT70-1001

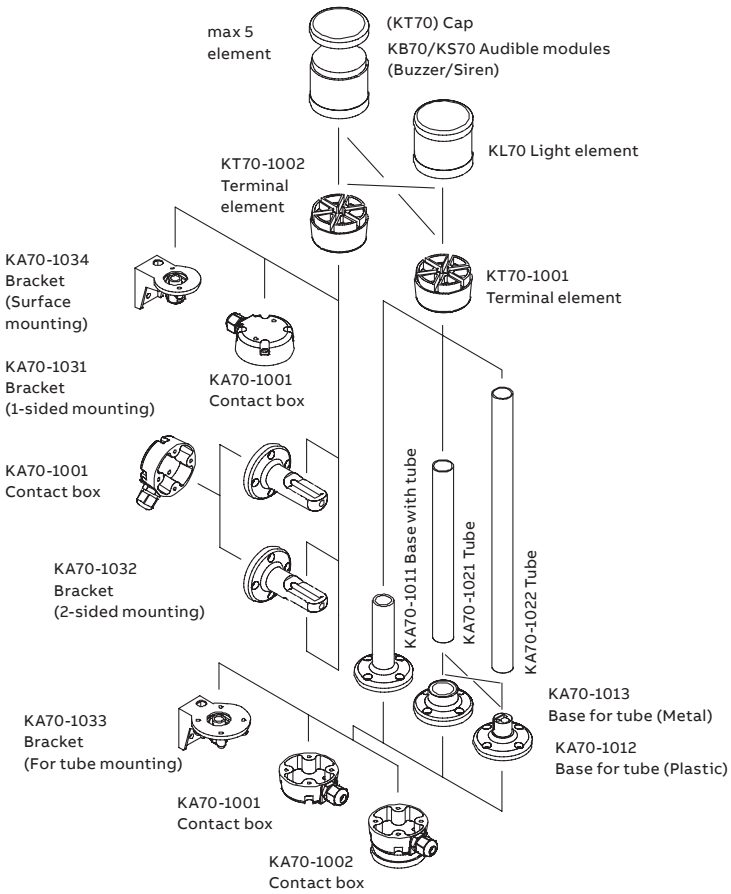

1SFC151511F0001

KA70-1001


1SFC151512F0001

KA70-1034

Description	Type	Order code	Pkg qty	Weight (1pce) kg
Terminal elements				
For tube mounting, including cap	KT70-1001	1SFA616075R1001	1	0.150
For bracket or base, including cap	KT70-1002	1SFA616075R1002	1	0.150
Special parts Contact box				
Cable exit at side	KA70-1001	1SFA616077R1001	1	0.070
Magnetic base	KA70-1002	1SFA616077R1002	1	0.070
Base with tube				
D=25 mm L=110 mm	KA70-1011	1SFA616077R1011	1	0.060
Base for tube				
D=25 mm, plastic	KA70-1012	1SFA616077R1012	1	0.030
D=25 mm, metal	KA70-1013	1SFA616077R1013	1	0.320
Tube, anodized aluminum				
D=25 mm L=250 mm	KA70-1021	1SFA616077R1021	1	0.080
D=25 mm L=400 mm	KA70-1022	1SFA616077R1022	1	0.120
D=25 mm L=800 mm	KA70-1023	1SFA616077R1023	1	0.240
Bracket				
1-sided mounting, max. 5 elements	KA70-1031	1SFA616077R1031	1	0.070
2-sided mounting, max. 10 elements	KA70-1032	1SFA616077R1032	1	0.070
For tube mounting	KA70-1033	1SFA616077R1033	1	0.070
For surface mounting	KA70-1034	1SFA616077R1034	1	0.070



Signal towers and signal beacons

Signal beacons


1SFC151513F0001

KSB-401G


1SFC151514F0001

KASB-100

Description

For panel mounting with hole diameter 37 mm, with optional anti-twist device.

Color	Rated voltage		Type	Order code	Pkg qty	Weight (1pce) kg
Integrated LED						
Red	24 V AC/DC	Permanent light	KSB-305R	1SFA616080R3051	1	0.140
Green	24 V AC/DC	Permanent light	KSB-305G	1SFA616080R3052	1	0.140
Yellow	24 V AC/DC	Permanent light	KSB-305Y	1SFA616080R3053	1	0.140
Red	24 V AC/DC	Blinking light	KSB-306R	1SFA616080R3061	1	0.140
Green	24 V AC/DC	Blinking light	KSB-306G	1SFA616080R3062	1	0.140
Yellow	24 V AC/DC	Blinking light	KSB-306Y	1SFA616080R3063	1	0.140
Red	24 V AC/DC	Rotating light	KSB-307R	1SFA616080R3071	1	0.140
Green	24 V AC/DC	Rotating light	KSB-307G	1SFA616080R3072	1	0.140
Yellow	24 V AC/DC	Rotating light	KSB-307Y	1SFA616080R3073	1	0.140
Red	115 V AC	Permanent light	KSB-115R	1SFA616080R1151	1	0.140
Green	115 V AC	Permanent light	KSB-115G	1SFA616080R1152	1	0.140
Yellow	115 V AC	Permanent light	KSB-115Y	1SFA616080R1153	1	0.140
Integrated xenon tube						
Red	24 V DC	Flashing light	KSB-203R	1SFA616080R2031	1	0.140
Green	24 V DC	Flashing light	KSB-203G	1SFA616080R2032	1	0.140
Yellow	24 V DC	Flashing light	KSB-203Y	1SFA616080R2033	1	0.140
Blue	24 V DC	Flashing light	KSB-203L	1SFA616080R2034	1	0.140
Clear	24 V DC	Flashing light	KSB-203C	1SFA616080R2038	1	0.140
Red	115 V AC	Flashing light	KSB-113R	1SFA616080R1131	1	0.140
Green	115 V AC	Flashing light	KSB-113G	1SFA616080R1132	1	0.140
Yellow	115 V AC	Flashing light	KSB-113Y	1SFA616080R1133	1	0.140
Blue	115 V AC	Flashing light	KSB-113L	1SFA616080R1134	1	0.140
Clear	115 V AC	Flashing light	KSB-113C	1SFA616080R1138	1	0.140
Red	230 V AC	Flashing light	KSB-123R	1SFA616080R1231	1	0.140
Green	230 V AC	Flashing light	KSB-123G	1SFA616080R1232	1	0.140
Yellow	230 V AC	Flashing light	KSB-123Y	1SFA616080R1233	1	0.140
Blue	230 V AC	Flashing light	KSB-123L	1SFA616080R1234	1	0.140
Clear	230 V AC	Flashing light	KSB-123C	1SFA616080R1238	1	0.140
For bulb Ba 15d, bulb not included						
Red	12 ... 240 V AC/DC	Permanent light	KSB-401R	1SFA616080R4011	1	0.130
Green	12 ... 240 V AC/DC	Permanent light	KSB-401G	1SFA616080R4012	1	0.130
Yellow	12 ... 240 V AC/DC	Permanent light	KSB-401Y	1SFA616080R4013	1	0.130
Blue	12 ... 240 V AC/DC	Permanent light	KSB-401L	1SFA616080R4014	1	0.130
Clear	12 ... 240 V AC/DC	Permanent light	KSB-401C	1SFA616080R4018	1	0.130

Bulbs for light element

Bulb Ba 15d, 42 mm
max 10 W for permanent light

	12 V AC/DC, 7 W	KA3-1018	1SFA616922R1018	10	0.011
	24 V AC/DC, 7 W	KA3-1028	1SFA616922R1028	10	0.011
	115 V AC/DC, 7 W	KA3-1118	1SFA616922R1118	10	0.011
	220 ... 260 V AC/DC, 7 ... 10 W	KA3-1148	1SFA616922R1148	10	0.011

Special parts

Anti-twist device	KASB-1000	1SFA616087R1000	1	0.005

Signal towers and signal beacons

Technical data

Signal towers K70 Technical specifications			
Housing and accessories	Polyamide, high impact, black		
Dome	Polycarbonate, transparent		
Fixing	Base mounting, tube Ø 25mm, bracket mounting		
Socket	B 15 d, for bulb max. 7W		
Connection	Screw connection up to 2.5 mm²		
Number of modules possible 1-sided bracket	max. 5		
Number of modules possible 2-sided bracket	max. 10		
Degrees of protection			
Light elements	IP 54	UL type 5	
Audible elements	IP 54	UL type 5	
Electrical data			
Permanent light element	12 ... 240 V		
Bulb socket B 15 d, max 7 W	Bulb not included		
Flashing light element	**24 V DC**	**115 V AC**	**230 V AC**
Flash frequency	1 Hz	1 Hz	1 Hz
Flash energy	2 Ws	2 Ws	2 Ws
Life duration	4 million flashes		
Current consumption	125 mA	22 mA	15 mA
Reduced for AS-Interface	80 mA	80 mA	80 mA
Starting current	< 0.5 A at 24 V		
LED permanent light element	**24 V AC/DC**	**115 V AC**	**230 V AC**
Life duration	100 000 hours		
Current consumption	45 mA	25mA	25mA
Starting current	< 0.5 A at 24 V		
LED blinking light element	**24 V AC/DC**	**115 V AC**	**230 V AC**
Life duration	100 000 hours		
Current consumption	25 mA	25mA	25mA
Starting current	< 0.5 A at 24 V		
Blink frequency	1 Hz	1 Hz	1 Hz
LED rotation light element	**24 V AC/DC**		
Life duration	50 000 hours		
Current consumption	40 mA		
Starting current	< 0.5 A at 24 V		
Rotation frequency	120 r.p m.		
Temperature			
Ambient temperature during operations	-20 to +50 °C		

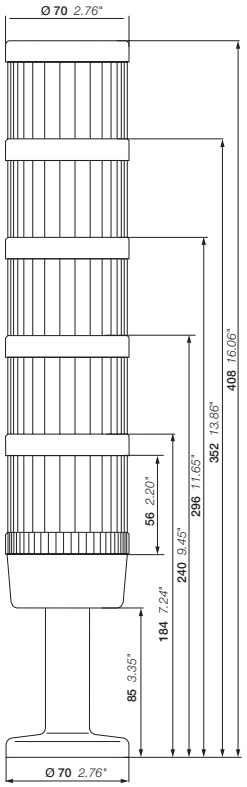
Signal beacons KSB Technical specifications			
Housing and accessories	PC/ABS-blend, high impact, black		
Dome	Polycarbonate, transparent		
Fixing	Installation mounting for Ø 37mm, (PG 29)		
Bulb socket	B 15 d, for bulb max. 10W		
Bulb change	Via rear access with bayonet mechanism (Bulb not included)		
Connection	Screw connection max 2.5 mm2		
Degrees of protection	IP 65, UL type 5		
Electrical data			
Permanent light element			
Operating voltage	max. 250 V		
Life duration	100 000 hours		
Bulb socket B 15 d, max 10 W	Bulb not included		
LED version: Permanent light	**24 V AC/DC**		
Life duration	100 000 hours		
Current consumption	45 mA		
Blinking light element	24 V, AC/DC		
Life duration	100 000 hours		
Current consumption	25 mA		
Rotation light element	**24 V AC/DC**		
Life duration	100 000 hours		
Current consumption	70 mA		
Starting current	< 0.5 A		
Flashing light element			
Operating voltage	24 V AC/DC	115 V AC	230 V AC
Flash frequency	1 Hz	1 Hz	1 Hz
Flash energy	2 Ws	2 Ws	2 Ws
Life duration	4 million flashes		
Current consumption	125 mA	20mA	35 mA
Starting current	< 0.5 A	< 0.5 A	< 0.5 A
Temperature			
Ambient temperature during operations	-20 to +50 °C		

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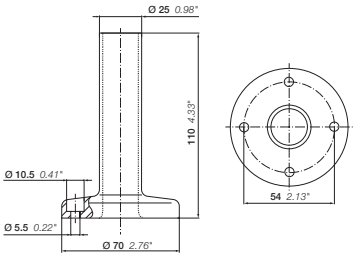
Signal towers and signal beacons

Dimensions and drilling plans

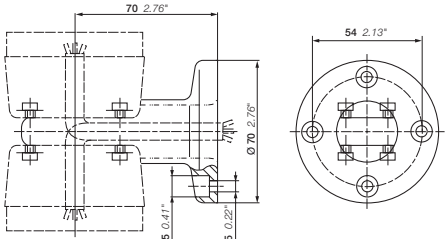
Signal towers K70



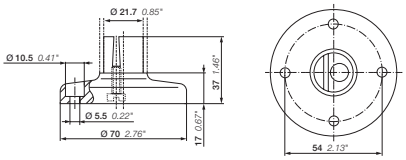
Base with integrated tube



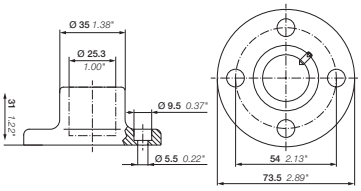
Bracket 2-sided mounting



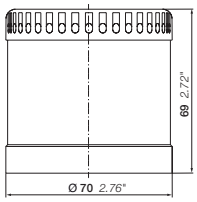
Base for tube, plastic



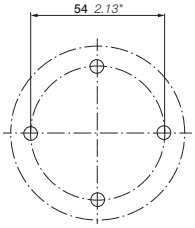
Base for tube, metal



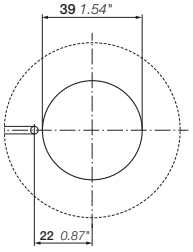
Audible module



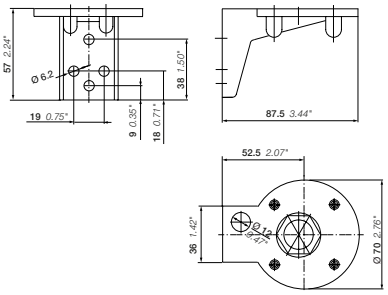
Drilling plan for signal towers K70



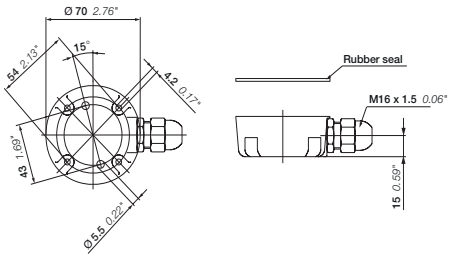
Drilling plan for signal beacons KSB



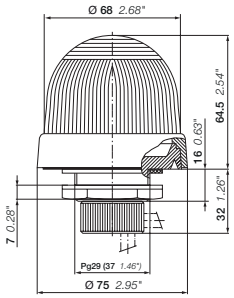
Bracket for tube mounting

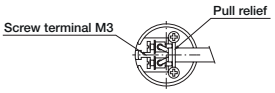


Contact box for cable exit at side

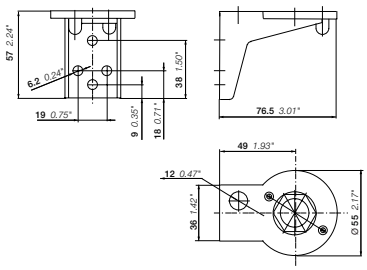


Signal beacons KSB

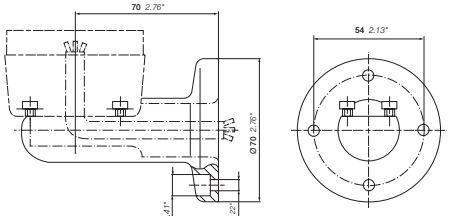




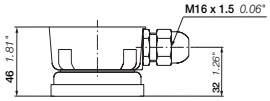
Bracket for surface mounting



Bracket 1-sided mounting



Contact box with magnetic base



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Color selection

General technical data

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, grey, 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.

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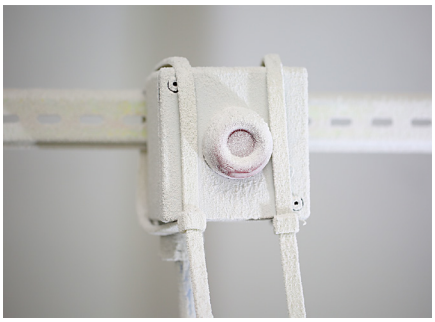
Degrees of protection

General technical data

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

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

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



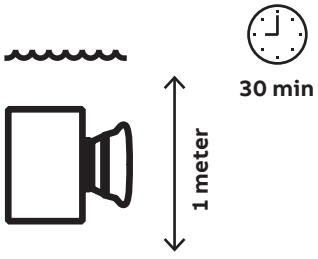


Note: the type of enclosure or cubicle in which the equipment must be installed prevails with respect to the degree of protection.
(*) According to DIN 400 50-9.

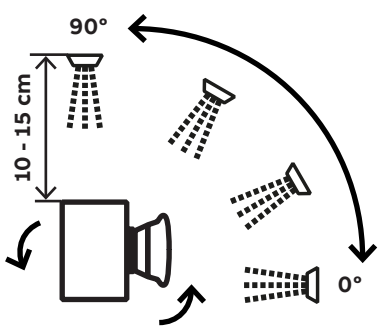
Water tests

IP67

The product is submerged



IP69K



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Order code classification

Order code	Type	Page
1SFA170190R8000	080CPN	3/80
1SFA170191R8000	080CPR	3/80
1SFA170192R8000	080CPV	3/80
1SFA170198R8000	080CPT	3/80
1SFA170801R1001	080SP1	3/81
1SFA170802R1002	080SP2	3/81
1SFA170803R1003	080SP3	3/81
1SFA170804R1004	080SP4	3/81
1SFA170806R1006	080SP6	3/81
1SFA170807R1008	080SP8	3/81
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1SFA170809R1018	080SP18	3/81
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1SFA170834R1004	080SP4M	3/81
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1SFA170836R3001	080SP1SFE	3/81
1SFA170837R4000	080SP1SF	3/82
1SFA170838R2000	080SP1MSFC	3/82
1SFA170839R3001	080SP1MSFE	3/81
1SFA170840R4000	080SP1MSF	3/82
1SFA170841R2000	080SP2SFC	3/82
1SFA170842R3002	080SP2SFE	3/81
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1SFA170844R2000	080SP2MSFC	3/82
1SFA170846R4000	080SP2MSF	3/82
1SFA170847R2000	080SP3SFC	3/82
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1SFA184006R9004	P9MPNLG	3/56
1SFA184007R9005	P9MPNBG	3/56
1SFA184010R9006	P9MPNNS	3/56
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1SFA184016R9004	P9MPNLS	3/56
1SFA184017R9005	P9MPNBS	3/56
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1SFA184031R9001	P9MEM3RN	3/59
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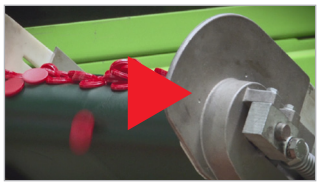
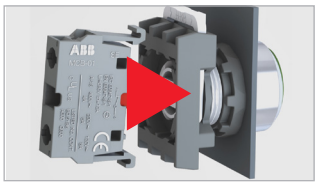


ABB Pilot devices manufacturing



Modular range assembly



IPX6 water spray test



IPX7 submersion test

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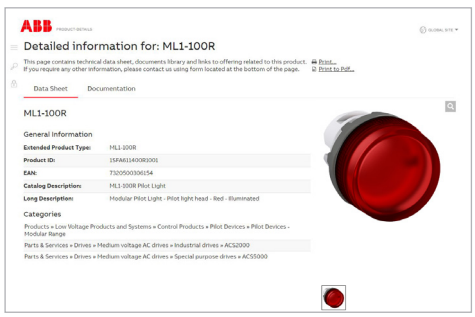
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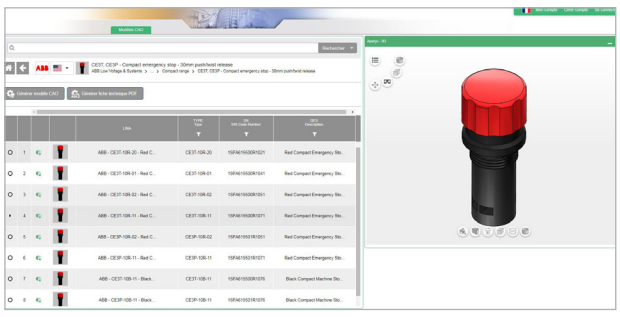


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