CATALOG 2026

Pilot devices, 22 mm

The complete offering



ABB pilot devices are engineered for total reliability. Their innovative design simplify the entire process, from selection to installation.

Pilot devices
The complete offering

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1SFC151007C0201 Rev G2 - edition April 2026

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
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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
—
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.

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 and accessories complete the portfolio.

Continuous operation

Engineered for tough environments

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

Global availability

Simple selection and stock management

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

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

Easy to install

Save time and space

The unique design of ABB's modular ranges enable tool-free installation that is quick and simple.

It provides high flexibility for last-minute changes.

With its all-in-one construction, the compact range reduces installation space and saves time.

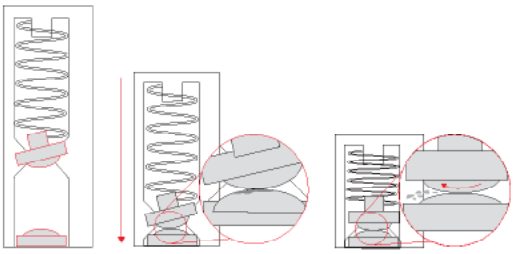
Pilot devices
Reliability that lasts

Continuous operation

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

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

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



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

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

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

IP67
IP67-classed pilot devices can withstand immersion in one 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.

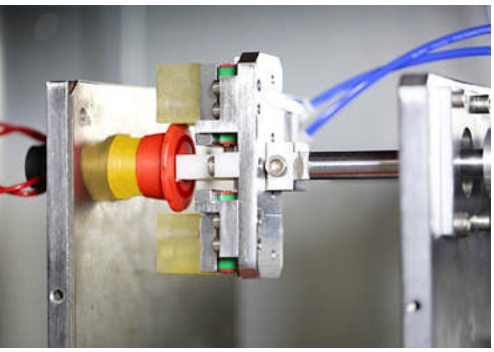
Find full test description in general technical data section.

—
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

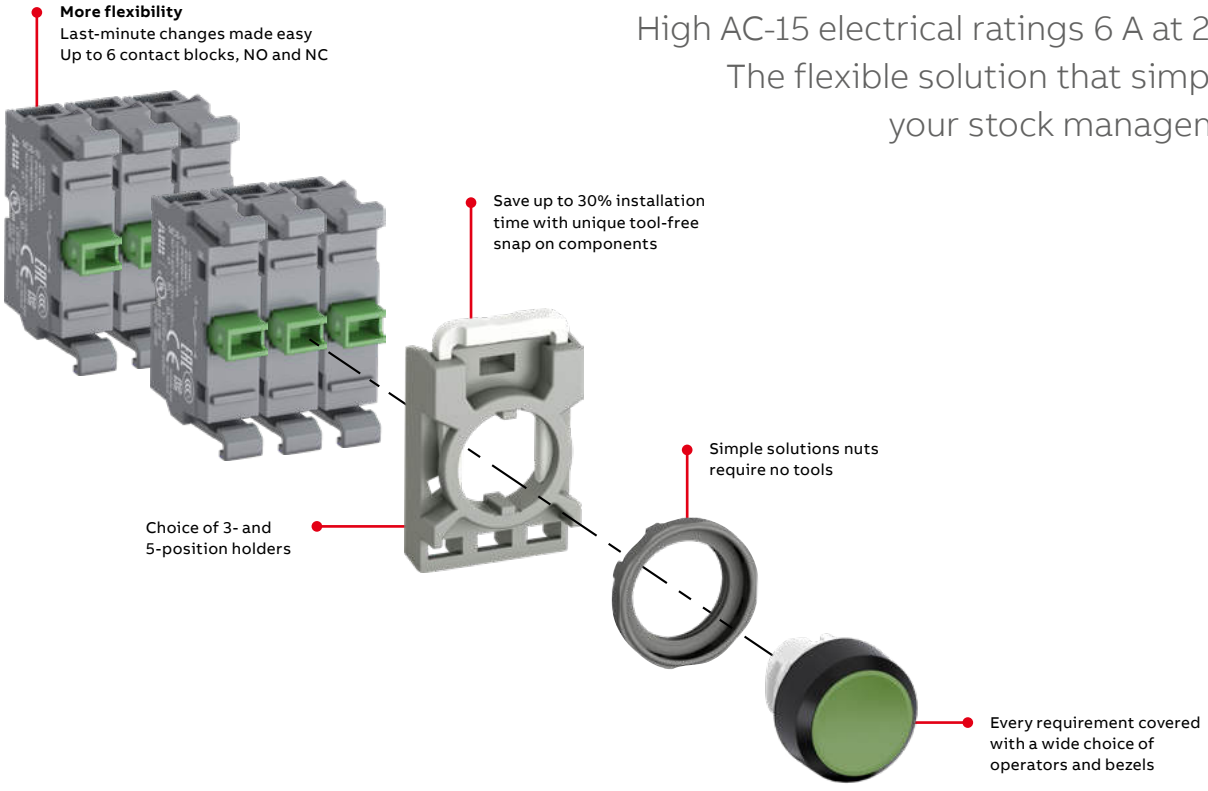

Selector switches


Key-operated selector switches


Potentiometers


Joysticks


Toggle switches



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

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

Compact range
All-in-one solution

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



Pushbuttons



Heavy duty pushbuttons



Mushroom pushbuttons



Emergency stop pushbuttons



Machine stop pushbuttons



Pilot lights



Selector switches



Buzzers

Fewer order codes make selection easy and save time.
All-in-one design makes installation fast.



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

Compact
Just 42 mm built in depth

Pilot devices, 22 mm
Modular plastic range

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Ordering details

15 Non-illuminated pushbuttons
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50 Potentiometers
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53 Joysticks
54 Toggle switches

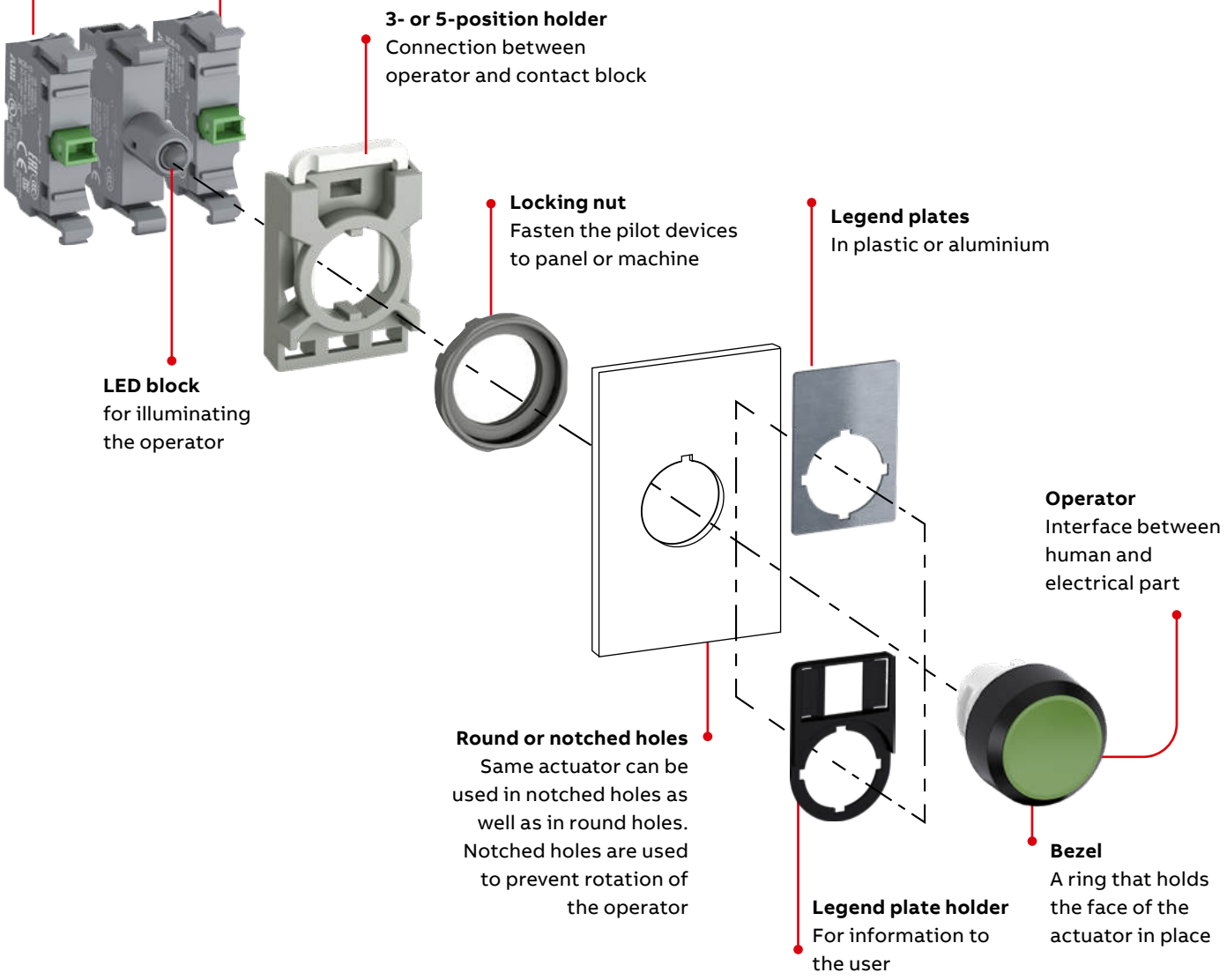
Accessories

55 Contact block configuration
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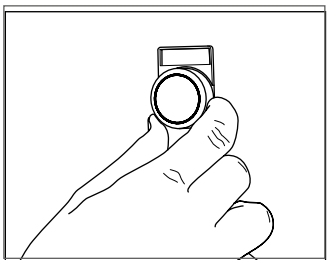
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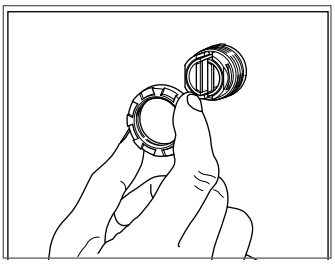
Modular plastic range



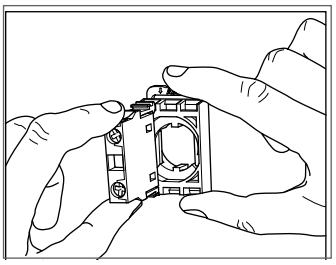
Easy to install



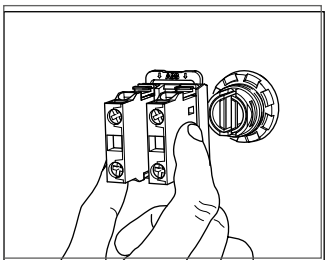
The operator is to be inserted from the front...



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

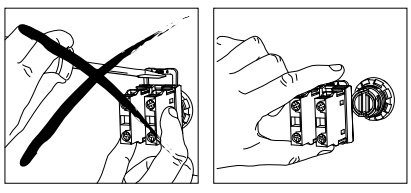


The contact blocks/LED block are then snapped on to the holder...



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

...and to remove



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

Simple and fast installation

Watch the video

Modular plastic range

Non-illuminated flush pushbuttons


1SFC151004V0001

MP1-10R


1SFC151016V0001

MP1-10Y


1SFC151031V0001

MP1-30L


1SFC151015V0001

MP2-10G


1SFC151018V0001

MP2-10W

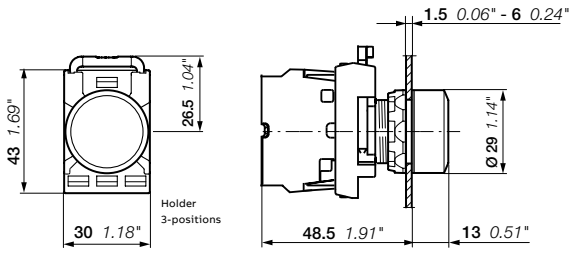

1SFC151029V0001

MP2-20B

Actuators

Holders and contact blocks are not included.

Operator	Bezel	Type	Order code	Pkg qty	Weight (1 pce) kg
Momentary					
● Red	Black plastic	MP1-10R	1SFA611100R1001	1	0.016
			1SFA611100H1001	100	0.016
	Chrome plastic	MP1-20R	1SFA611100R2001	1	0.016
	Chrome metal	MP1-30R	1SFA611100R3001	1	0.026
● Green	Black plastic	MP1-10G	1SFA611100R1002	1	0.016
			1SFA611100H1002	100	0.016
	Chrome plastic	MP1-20G	1SFA611100R2002	1	0.016
	Chrome metal	MP1-30G	1SFA611100R3002	1	0.026
● Yellow	Black plastic	MP1-10Y	1SFA611100R1003	1	0.016
	Chrome plastic	MP1-20Y	1SFA611100R2003	1	0.016
	Chrome metal	MP1-30Y	1SFA611100R3003	1	0.026
● Blue	Black plastic	MP1-10L	1SFA611100R1004	1	0.016
	Chrome plastic	MP1-20L	1SFA611100R2004	1	0.016
	Chrome metal	MP1-30L	1SFA611100R3004	1	0.026
○ White	Black plastic	MP1-10W	1SFA611100R1005	1	0.016
	Chrome plastic	MP1-20W	1SFA611100R2005	1	0.016
	Chrome metal	MP1-30W	1SFA611100R3005	1	0.026
● Black	Black plastic	MP1-10B	1SFA611100R1006	1	0.016
	Chrome plastic	MP1-20B	1SFA611100R2006	1	0.016
	Chrome metal	MP1-30B	1SFA611100R3006	1	0.026
○ Clear	Black plastic	MP1-10C	1SFA611100R1008	1	0.016
	Chrome plastic	MP1-20C	1SFA611100R2008	1	0.016
	Chrome metal	MP1-30C	1SFA611100R3008	1	0.026
Maintained					
● Red	Black plastic	MP2-10R	1SFA611101R1001	1	0.016
			1SFA611101H1001	100	0.016
	Chrome plastic	MP2-20R	1SFA611101R2001	1	0.016
	Chrome metal	MP2-30R	1SFA611101R3001	1	0.026
● Green	Black plastic	MP2-10G	1SFA611101R1002	1	0.016
			1SFA611101H1002	100	0.016
	Chrome plastic	MP2-20G	1SFA611101R2002	1	0.016
	Chrome metal	MP2-30G	1SFA611101R3002	1	0.026
● Yellow	Black plastic	MP2-10Y	1SFA611101R1003	1	0.016
	Chrome metal	MP2-30Y	1SFA611101R3003	1	0.026
● Blue	Black plastic	MP2-10L	1SFA611101R1004	1	0.016
	Chrome plastic	MP2-20L	1SFA611101R2004	1	0.016
	Chrome metal	MP2-30L	1SFA611101R3004	1	0.026
○ White	Black plastic	MP2-10W	1SFA611101R1005	1	0.016
	Chrome plastic	MP2-20W	1SFA611101R2005	1	0.016
● Black	Black plastic	MP2-10B	1SFA611101R1006	1	0.016
	Chrome plastic	MP2-20B	1SFA611101R2006	1	0.016
	Chrome metal	MP2-30B	1SFA611101R3006	1	0.026
○ Clear	Black plastic	MP2-10C	1SFA611101R1008	1	0.016



MP1, MP2

Dimensions (mm, inches)

Modular plastic range

Non-illuminated flush pushbuttons



1SFC151016V0001

MP1-40R-11



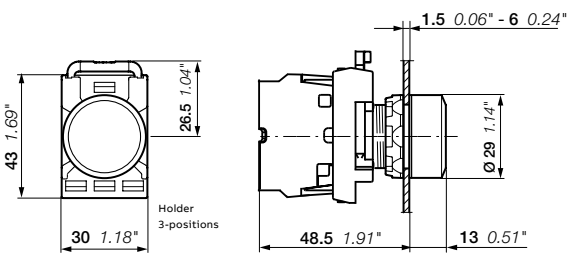
1SFC151031V0001

MP1-60G-11

Complete units

Includes actuator, holder and contact blocks.

Operator	Bezel	Type	Order code	Contacts	Pkg qty	Weight (1 pce) kg
Momentary						
● Red	Black plastic	MP1-40R-10	1SFA611100R4011	1 0	1	0.030
		MP1-40R-20	1SFA611100R4021	2 0	1	0.042
		MP1-40R-01	1SFA611100R4041	0 1	1	0.030
		MP1-40R-11	1SFA611100R4071	1 1	1	0.042
	Chrome metal	MP1-60R-01	1SFA611100R6041	0 1	1	0.043
		MP1-60R-11	1SFA611100R6071	1 1	1	0.055
● Green	Black plastic	MP1-40G-10	1SFA611100R4012	1 0	1	0.030
		MP1-40G-20	1SFA611100R4022	2 0	1	0.042
		MP1-40G-11	1SFA611100R4072	1 1	1	0.042
	Chrome metal	MP1-60G-10	1SFA611100R6012	1 0	1	0.043
		MP1-60G-11	1SFA611100R6072	1 1	1	0.055
● Yellow	Black plastic	MP1-40Y-10	1SFA611100R4013	1 0	1	0.030
		MP1-40Y-20	1SFA611100R4023	2 0	1	0.042
	Chrome metal	MP1-60Y-11	1SFA611100R6073	1 1	1	0.055
● Blue	Black plastic	MP1-40L-10	1SFA611100R4014	1 0	1	0.030
○ White	Black plastic	MP1-40W-10	1SFA611100R4015	1 0	1	0.030
		MP1-40W-20	1SFA611100R4025	2 0	1	0.042
		MP1-40W-11	1SFA611100R4075	1 1	1	0.042
● Black	Black plastic	MP1-40B-10	1SFA611100R4016	1 0	1	0.030
		MP1-40B-20	1SFA611100R4026	2 0	1	0.042
		MP1-40B-01	1SFA611100R4046	0 1	1	0.030
		MP1-40B-11	1SFA611100R4076	1 1	1	0.042



MP1, MP2

Dimensions (mm, inches)

Modular plastic range

Non-illuminated flush pushbuttons



MP1-7011



MP1-7059



MP1-7154



MP1-7035



MP1-7205



MP1-7108



MP1-7129

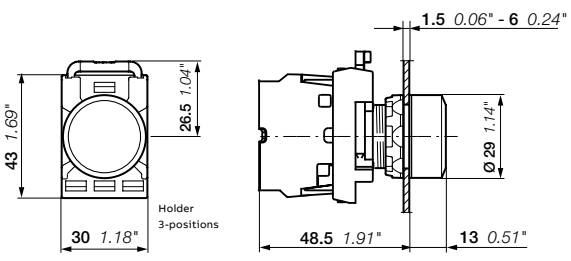
Engraved actuators

Holder and contact blocks are not included.

Operator	Bezel	Marking	Type	Order code	Pkg qty	Weight (1 pce) kg
Momentary						
● Red	Black plastic	I	MP1-7011	1SFA611100R7011	1	0.016
		O	MP1-7031	1SFA611100R7031	1	0.016
		STOP	MP1-7081	1SFA611100R7081	1	0.016
	Chrome plastic	O	MP1-7127	1SFA611100R7127	1	0.016
● Green	Black plastic	I	MP1-7012	1SFA611100R7012	1	0.016
		II	MP1-7022	1SFA611100R7022	1	0.016
		START	MP1-7059	1SFA611100R7059	1	0.016
			MP1-7202	1SFA611100R7202	1	0.016
			MP1-7042	1SFA611100R7042	1	0.016
	Chrome plastic	I	MP1-7128 *	1SFA611100R7128	1	0.016
● Yellow	Black plastic		MP9-1203	1SFA611199R1203	1	0.016
● Blue	Black plastic	R	MP1-7144	1SFA611100R7144	1	0.016
		RESET	MP1-7154	1SFA611100R7154	1	0.016
			MP9-1198	1SFA611199R1198	1	0.016
		↔	MP9-1201	1SFA611199R1201	1	0.016
			MP9-1205	1SFA611199R1205	1	0.016
○ White	Black plastic	I	MP1-7015	1SFA611100R7015	1	0.016
		O	MP1-7035	1SFA611100R7035	1	0.016
			MP1-7205	1SFA611100R7205	1	0.016
		→	MP9-1202	1SFA611199R1202	1	0.016
			MP9-1204	1SFA611199R1204	1	0.016
	Chrome metal		MP9-1224	1SFA611199R1224	1	0.016
● Black	Black plastic	I	MP1-7016	1SFA611100R7016	1	0.016
		O	MP1-7036	1SFA611100R7036	1	0.016
		RESET	MP1-7156	1SFA611100R7156	1	0.016
			MP1-7206	1SFA611100R7206	1	0.016
			MP1-7009	1SFA611100R7009	1	0.016
			MP1-7108	1SFA611100R7108	1	0.016
			MP9-1197	1SFA611199R1197	1	0.016
			MP9-1200	1SFA611199R1200	1	0.016
	Chrome plastic		MP1-7129	1SFA611100R7129	1	0.016
	Chrome metal		MP9-1225	1SFA611199R1225	1	0.016

All arrows direction can be turned 180 degrees except the curve arrow. MP1-7128 is for vertical mounting (i.e. horizontal slot on the back of the button).

* MP1-7128 is for vertical mounting (i.e. horizontal slot on the back of the button).



MP1, MP2

Dimensions (mm, inches)

Modular plastic range

Non-illuminated extended pushbuttons



MP3-10R



MP3-20Y



MP3-10W



MP3-10C



MP4-10G



MP4-10L



MP4-10B

Actuators

Holders and contact blocks are not included.

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



MP3-40G-20

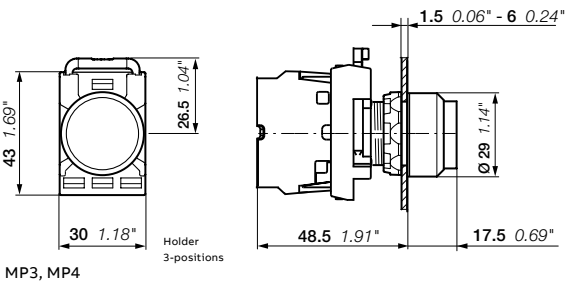


MP3-40W-20



MP3-40B-01

Operator	Bezel	Type	Order code	Contacts	Pkg qty	Weight (1 pce) kg
Momentary complete units						
● Green	Black plastic	MP3-40G-20	1SFA611102R4022	2 0	1	0.042
○ White	Black plastic	MP3-40W-20	1SFA611102R4025	2 0	1	0.042
● Black	Black plastic	MP3-40B-01	1SFA611102R4046	0 1	1	0.030



MP3, MP4

Dimensions (mm, inches)

Modular plastic range

Non-illuminated extended pushbuttons



1SFC151353V0001

MP3-7031



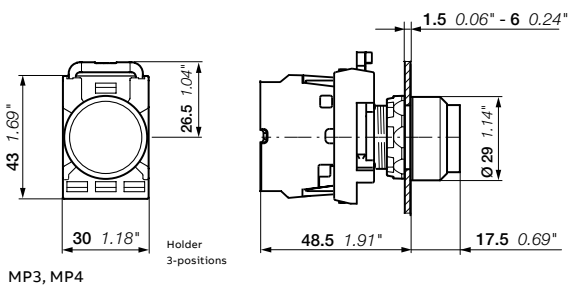
1SFC151013V0001

MP3-7036

Engraved actuators

Holder and contact blocks are not included.

Operator	Bezel	Marking	Type	Order code	Pkg qty	Weight (1 pce) kg
Momentary						
● Red	Black plastic	O	MP3-7031	1SFA611102R7031	1	0.016
● Black	Black plastic	O	MP3-7036	1SFA611102R7036	1	0.016



MP3, MP4

Dimensions (mm, inches)

Modular plastic range

Illuminated flush pushbuttons


1SFC151048V0001

MP1-31G


1SFC151042V0001

MP1-11Y


1SFC151045V0001

MP1-21L


1SFC151046V0001

MP2-31R


1SFC151040V0001

MP2-11L

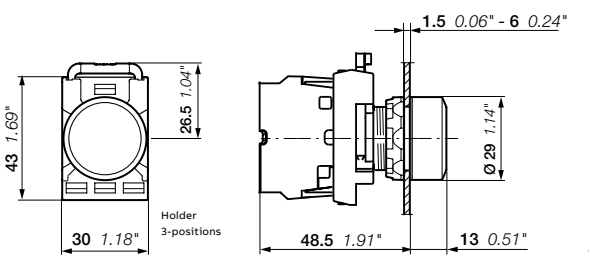

1SFC151044V0001

MP2-11C

Actuators

Holders, contact blocks and LED blocks are not included. Select suitable MLBL LED block according to your application. See page 58-59.

Operator	Bezel	Type	Order code	Pkg qty	Weight (1 pce) kg
Momentary					
● Red	Black plastic	MP1-11R	1SFA611100R1101	1	0.016
			1SFA611100H1101	100	0.016
	Chrome plastic	MP1-21R	1SFA611100R2101	1	0.016
	Chrome metal	MP1-31R	1SFA611100R3101	1	0.026
● Green	Black plastic	MP1-11G	1SFA611100R1102	1	0.016
			1SFA611100H1102	100	0.016
	Chrome plastic	MP1-21G	1SFA611100R2102	1	0.016
	Chrome metal	MP1-31G	1SFA611100R3102	1	0.026
● Yellow	Black plastic	MP1-11Y	1SFA611100R1103	1	0.016
			1SFA611100H1103	100	0.016
	Chrome plastic	MP1-21Y	1SFA611100R2103	1	0.016
	Chrome metal	MP1-31Y	1SFA611100R3103	1	0.026
● Blue	Black plastic	MP1-11L	1SFA611100R1104	1	0.016
	Chrome plastic	MP1-21L	1SFA611100R2104	1	0.016
	Chrome metal	MP1-31L	1SFA611100R3104	1	0.026
○ White	Black plastic	MP1-11W	1SFA611100R1105	1	0.016
			1SFA611100H1105	100	0.016
	Chrome plastic	MP1-21W	1SFA611100R2105	1	0.016
	Chrome metal	MP1-31W	1SFA611100R3105	1	0.026
○ Clear	Black plastic	MP1-11C	1SFA611100R1108	1	0.016
	Chrome plastic	MP1-21C	1SFA611100R2108	1	0.016
	Chrome metal	MP1-31C	1SFA611100R3108	1	0.026
Maintained					
● Red	Black plastic	MP2-11R	1SFA611101R1101	1	0.016
	Chrome plastic	MP2-21R	1SFA611101R2101	1	0.016
	Chrome metal	MP2-31R	1SFA611101R3101	1	0.026
● Green	Black plastic	MP2-11G	1SFA611101R1102	1	0.016
	Chrome plastic	MP2-21G	1SFA611101R2102	1	0.016
	Chrome metal	MP2-31G	1SFA611101R3102	1	0.026
● Yellow	Black plastic	MP2-11Y	1SFA611101R1103	1	0.016
	Chrome plastic	MP2-21Y	1SFA611101R2103	1	0.016
	Chrome metal	MP2-31Y	1SFA611101R3103	1	0.026
● Blue	Black plastic	MP2-11L	1SFA611101R1104	1	0.016
	Chrome plastic	MP2-21L	1SFA611101R2104	1	0.016
	Chrome metal	MP2-31L	1SFA611101R3104	1	0.026
○ White	Black plastic	MP2-11W	1SFA611101R1105	1	0.016
	Chrome plastic	MP2-21W	1SFA611101R2105	1	0.016
	Chrome metal	MP2-31W	1SFA611101R3105	1	0.026
○ Clear	Black plastic	MP2-11C	1SFA611101R1108	1	0.016
	Chrome metal	MP2-31C	1SFA611101R3108	1	0.026



MP1, MP2

Dimensions (mm, inches)

Modular plastic range

Illuminated flush pushbuttons



MP1-41R-10

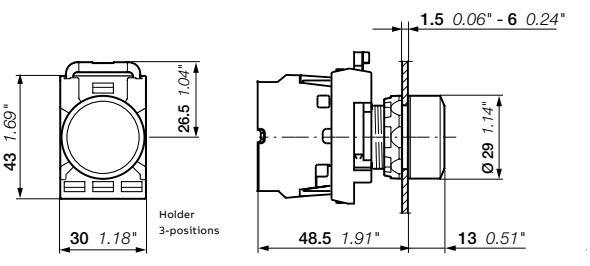


MP1-41Y-11

Complete units

Includes actuator, holder and contact blocks. Please note that LED blocks are not included. Select suitable MLBL LED block according to your application. See page 58-59.

Operator	Bezel	Type	Order code	Contacts	Pkg qty	Weight (1 pce) kg
Momentary						
● Red	Black plastic	MP1-41R-10	1SFA611100R4111	1 0	1	0.037
		MP1-41R-01	1SFA611100R4141	0 1	1	0.037
		MP1-41R-11	1SFA611100R4171	1 1	1	0.042
● Green	Black plastic	MP1-41G-10	1SFA611100R4112	1 0	1	0.037
		MP1-41G-01	1SFA611100R4142	0 1	1	0.037
		MP1-41G-11	1SFA611100R4172	1 1	1	0.042
● Yellow	Black plastic	MP1-41Y-10	1SFA611100R4113	1 0	1	0.037
		MP1-41Y-01	1SFA611100R4143	0 1	1	0.037
		MP1-41Y-11	1SFA611100R4173	1 1	1	0.042
● Blue	Black plastic	MP1-41L-10	1SFA611100R4114	1 0	1	0.037
		MP1-41L-11	1SFA611100R4174	1 1	1	0.042
○ White	Black plastic	MP1-41W-10	1SFA611100R4115	1 0	1	0.037
		MP1-41W-11	1SFA611100R4175	1 1	1	0.042
○ Clear	Black plastic	MP1-41C-10	1SFA611100R4118	1 0	1	0.037
		MP1-41C-11	1SFA611100R4178	1 1	1	0.042
Maintained						
● Red	Black plastic	MP2-41R-10	1SFA611101R4111	1 0	1	0.037
		MP2-41R-11	1SFA611101R4171	1 1	1	0.043
● Green	Black plastic	MP2-41G-10	1SFA611101R4112	1 0	1	0.037
		MP2-41G-11	1SFA611101R4172	1 1	1	0.043



MP1, MP2

Dimensions (mm, inches)

Modular plastic range

Illuminated flush pushbuttons



1SFA611100R7038

MP1-7038



1SFA611100R7014

MP1-7014



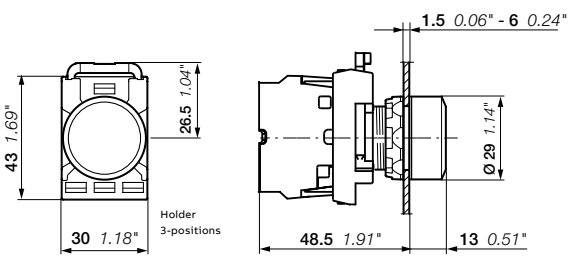
1SFCA611101R7120

MP2-7120

Engraved actuators

Holders, contact blocks and LED blocks are not included. Select suitable MLBL LED block according to your application. See page 58-59.

Operator	Bezel	Marking	Type	Order code	Pkg qty	Weight (1 pce) kg
Momentary						
Red	Black plastic	O	MP1-7038	1SFA611100R7038	1	0.016
Green	Black plastic	I	MP1-7014	1SFA611100R7014	1	0.016
White	Black plastic	I	MP1-7019	1SFA611100R7019	1	0.016
Maintained						
Clear	Black plastic	☼	MP2-7120	1SFA611101R7120	1	0.016



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

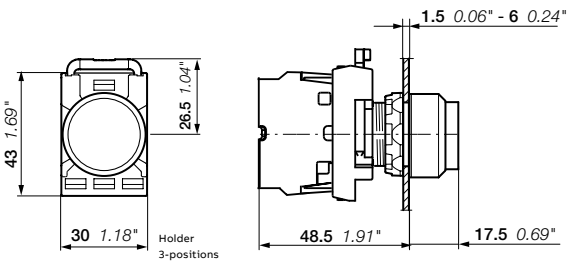

1SFC151067V0001

MP4-21C

Actuators

Holders, contact blocks and LED blocks are not included. Select suitable MLBL LED block according to your application. See page 58-59.

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



MP3, MP4

Dimensions (mm, inches)

Modular plastic range

Illuminated extended pushbuttons



MP3-41R-11



MP3-41G-10

Complete units

Includes actuator, holder and contact blocks. Note that LED blocks are not included. Select the LED block MLBL according to application. For LED block details please see page 58-59.

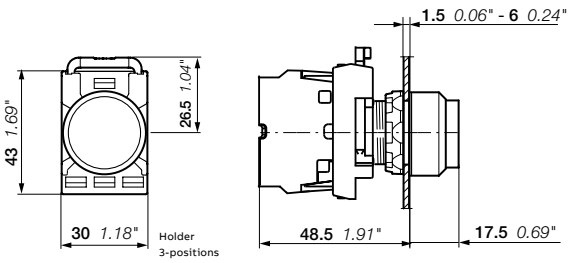
Operator	Bezel	Type	Order code	Contacts	Pkg qty	Weight (1 pce) kg
Momentary						
Red	Black plastic	MP3-41R-11	1SFA611102R4171	1 1	1	0.051
Green	Black plastic	MP3-41G-10	1SFA611103R4112	1 0	1	0.037
		MP3-41G-11	1SFA611102R4172	1 1	1	0.051
Yellow	Black plastic	MP3-41Y-10	1SFA611102R4113	1 0	1	0.037
Maintained						
Green	Black plastic	MP4-41G-10	1SFA611103R4112	1 0	1	0.037



MP3-7040

Engraved actuators (operator only)

Operator	Bezel	Marking	Type	Order code	Pkg qty	Weight (1 pce) kg
Momentary						
O White	Black plastic	O	MP3-7040	1SFA611102R7040	1	0.016



MP3, MP4

Dimensions (mm, inches)

Modular plastic range

Non-illuminated double pushbuttons momentary



MPD1-11B



MPD5-11B



MPD13-11B



MPD15-11B



MA1-8139

Actuators

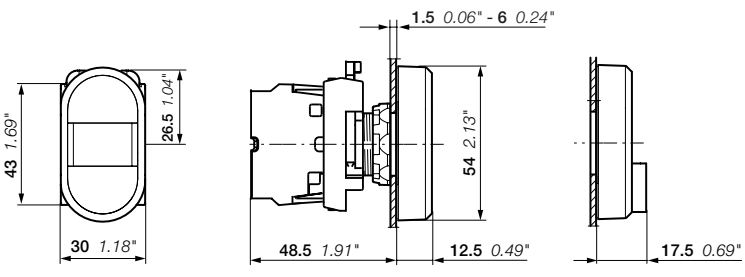
Holders and contact blocks are not included.

Operator upper button	Operator lower button	Type	Order code	Pkg qty	Weight (1 pce) kg
Flush pushbutton					
● **Green**	● **Red**				
No text	No text	MPD1-11B	1SFA611130R1106	1	0.025
I	0	MPD2-11B	1SFA611131R1106	1	0.025
ON	OFF	MPD3-11B	1SFA611132R1106	1	0.025
START	STOP	MPD4-11B	1SFA611133R1106	1	0.025
○ **White**	● **Black**				
No text	No text	MPD5-11B	1SFA611134R1106	1	0.025
I	0	MPD6-11B	1SFA611135R1106	1	0.025
ON	OFF	MPD7-11B	1SFA611136R1106	1	0.025
⇧	⇩	MP9-1232	1SFA611199R1232	1	0.025
● **Black**	● **Red**				
No text	No text	MPD9-11B	1SFA611138R1106	1	0.025
Extended lower pushbutton					
● **Green**	● **Red**				
No text	No text	MPD12-11B	1SFA611141R1106	1	0.025
I	0	MPD13-11B	1SFA611142R1106	1	0.025
ON	OFF	MPD14-11B	1SFA611143R1106	1	0.025
START	STOP	MPD15-11B	1SFA611144R1106	1	0.025
○ **White**	● **Black**				
No text	No text	MPD16-11B	1SFA611145R1106	1	0.025
I	0	MPD17-11B	1SFA611146R1106	1	0.025
START	STOP	MPD19-11B	1SFA611148R1106	1	0.025

Accessories

Legend plate holder				
2-position	MA1-8139	1SFA611920R8139	10	0.030

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



MPD

Dimensions (mm, inches)

Modular plastic range

Illuminated double pushbuttons momentary - Flush lower button



1SFC151088V0001

MPD4-11C


1SFC151100V0001

MPD5-11C



1SFC151078V0001

MPD2-11R



1SFC151083V0001

MDP3-11G



MA1-8139

Actuators

Holders, contact blocks and LED blocks are not included. Select the LED block MLBL according to application. For LED block details please see page 58-59.

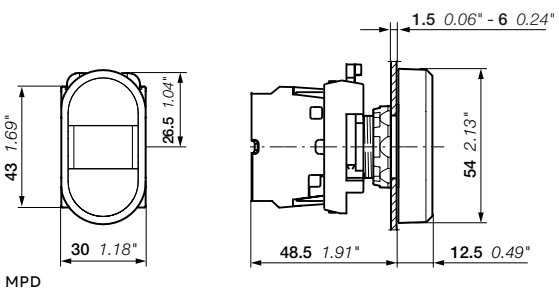
Operator upper button	Operator lower button	Type	Order code	Pkg qty	Weight (1 pce) kg
Clear light indicator					
● **Green**	● **Red**				
No text	No text	MPD1-11C	1SFA611130R1108	1	0.025
I	0	MPD2-11C	1SFA611131R1108	1	0.025
ON	OFF	MPD3-11C	1SFA611132R1108	1	0.025
START	STOP	MPD4-11C	1SFA611133R1108	1	0.025
○ **White**	● **Black**				
No text	No text	MPD5-11C	1SFA611134R1108	1	0.025
I	0	MPD6-11C	1SFA611135R1108	1	0.025
START	STOP	MPD8-11C	1SFA611137R1108	1	0.025
⇧	⇩	MP9-1232	1SFA611199R1232	1	0.025
Red light indicator					
● **Green**	● **Red**				
No text	No text	MPD1-11R	1SFA611130R1101	1	0.025
I	0	MPD2-11R	1SFA611131R1101	1	0.025
ON	OFF	MPD3-11R	1SFA611132R1101	1	0.025
START	STOP	MPD4-11R	1SFA611133R1101	1	0.025
○ **White**	● **Black**				
No text	No text	MPD5-11R	1SFA611134R1101	1	0.025
Green light indicator					
● **Green**	● **Red**				
No text	No text	MPD1-11G	1SFA611130R1102	1	0.025
I	0	MPD2-11G	1SFA611131R1102	1	0.025
ON	OFF	MPD3-11G	1SFA611132R1102	1	0.025
START	STOP	MPD4-11G	1SFA611133R1102	1	0.025
○ **White**	● **Black**				
No text	No text	MPD5-11G	1SFA611134R1102	1	0.025
I	0	MPD6-11G	1SFA611135R1102	1	0.025
ON	OFF	MPD7-11G	1SFA611136R1102	1	0.025
Yellow light indicator					
● **Green**	● **Red**				
No text	No text	MPD1-11Y	1SFA611130R1103	1	0.025
I	0	MPD2-11Y	1SFA611131R1103	1	0.025
ON	OFF	MPD3-11Y	1SFA611132R1103	1	0.025
START	STOP	MPD4-11Y	1SFA611133R1103	1	0.025
○ **White**	● **Black**				
No text	No text	MPD5-11Y	1SFA611134R1103	1	0.025

Accessories

Legend plate holder

2-position	MA1-8139	1SFA611920R8139	10	0.030

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



MPD

Dimensions (mm, inches)

Modular plastic range

Illuminated double pushbuttons momentary - Extended lower button



MPD12-11C



MPD14-11C



MDP13-11R



MDP14-11G



MDP12-11Y



MA1-8139

Actuators

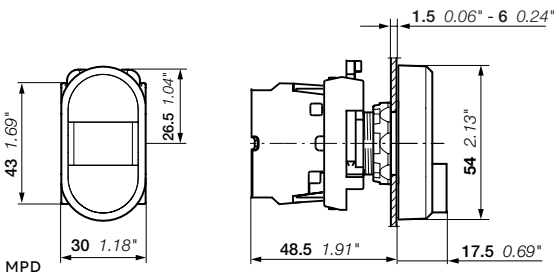
Holders, contact blocks and LED blocks are not included. Select the LED block MLBL according to application. For LED block details please see page 58-59.

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

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

Mushroom pushbuttons momentary


1SFC151007V0001

MPM1-10G


1SFC151010V0001

MPM1-10B


1SFC151073V0001

MPM2-10R


1SFC151074V0001

MPM2-10Y

Non illuminated actuators

Holders and contact blocks are not included.

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


1SFC151173V0001

MPM1-11G

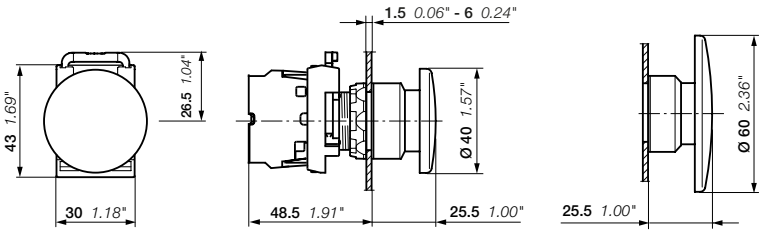

1SFC151155V0001

MPM2-11R

Illuminated actuators

Holders, contact blocks and LED blocks are not included.

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



MPM1, MPM2

Dimensions (mm, inches)

Modular plastic range

Emergency stop pushbuttons



MPET3-10R



MPEK3-11R



MPET4-10R



MPET4-1018



MPET4-1021



MPMP4-10R

Non illuminated actuators

Holders and contact blocks are not included. The emergency stop pushbuttons without marking or with symbol ⓘ conform to the standard EN IEC 60947-5-5, Safety of machinery EN ISO 13850, IEC 60204-1 and to Machinery Directive 2006/42/EC.

Operator	Marking	Release method	Type	Order code	Pkg qty	Weight (1 pce) kg
Ø 30 mm						
● Red		Twist release	MPET3-10R	1SFA611520R1001	1	0.036
				1SFA611520H1001	100	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
				1SFA611523H1001	100	0.036
● Red	ⓘ	Twist release	MPET4-1018	1SFA611599R1018	1	0.036
● Red	EMO	Twist release	MPET4-1021	1SFA611599R1021	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



MPMP3-11R



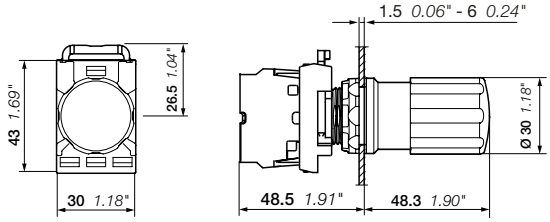
MPMT4-11R

Illuminated actuators

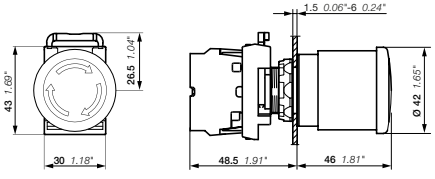
Holders, contact blocks and LED blocks are not included. Select the LED block MLBL according to application. Details for LED block MLBL please see page 58-59.

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

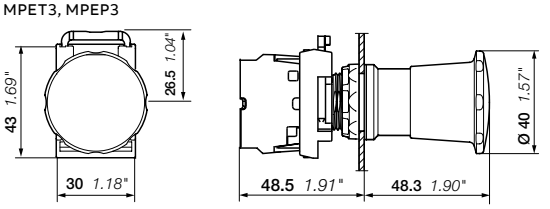
Note: 5 position holder is not allowed to be used. For more installation information, please see instruction guide 1SFC151011M0201.



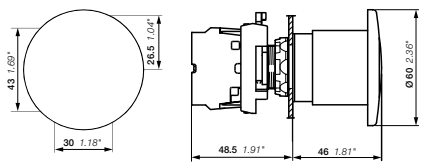
MPET3, MPEP3



MPMT3, MPMP3



MPET4, MPEP4



MPMT4, MPMP4

Dimensions (mm, inches)

Modular plastic range

Emergency stop pushbuttons



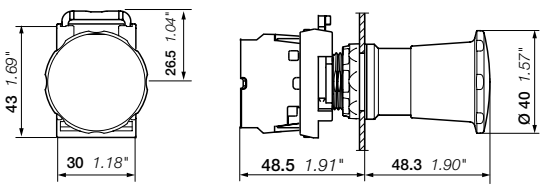
MPET4-20R-01

Non illuminated complete units

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

Operator	Release method	Contacts		Type	Order code	Pkg qty	Weight (1 pce) kg
Ø 40 mm							
● Red	Twist release	0	1	MPET4-20R-01	1SFA611523R2041	1	0.052
● Red	Twist release	0	2	MPET4-20R-02	1SFA611523R2051	1	0.065
● Red	Twist release	1	1	MPET4-20R-11	1SFA611523R2071	1	0.065
● Red	Twist release	1	2	MPET4-20R-12	1SFA611523R2091	1	0.083
● Red	Pull release	0	1	MPEP4-20R-01	1SFA611524R2041	1	0.048
● Red	Pull release	0	2	MPEP4-20R-02	1SFA611524R2051	1	0.065

For more installation information, please refer to the installation instructions 1SFC151011M0201



MPET4

Dimensions (mm, inches)

Modular plastic range

Machine stop pushbuttons



MPET3-10B



MPET4-10B

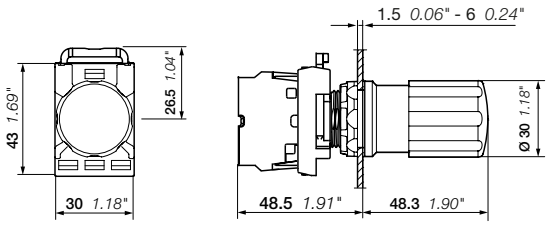


MPEK4-11B

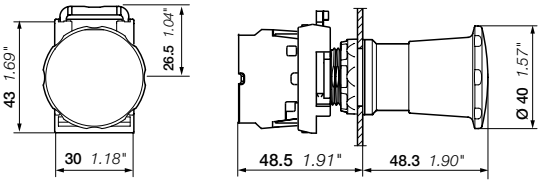
Non illuminated actuators

Holders and contact blocks are not included.

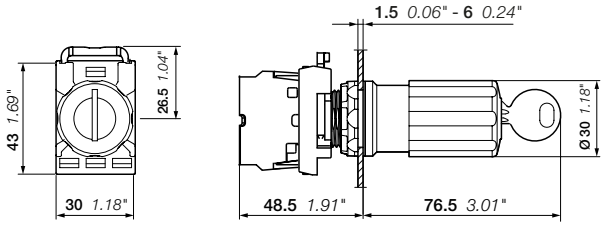
Operator	Release method	Type	Order code	Pkg qty	Weight (1 pce) kg
Ø 30 mm					
● Black	Twist release	MPET3-10B	1SFA611520R1006	1	0.036
● Black	Pull release	MPEP3-10B	1SFA611521R1006	1	0.036
● Black	Key code 455	MPEK3-11B	1SFA611522R1106	1	0.065
Ø 40 mm					
● Black	Twist release	MPET4-10B	1SFA611523R1006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



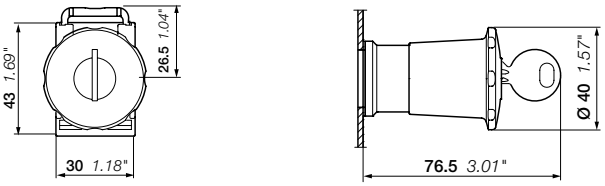
MPET3, MPEP3



MPET4, MPEP4



MPEK3



MPEK4

Dimensions (mm, inches)

Modular plastic range

Heavy duty pushbuttons



KP6-40R



KP6-40G

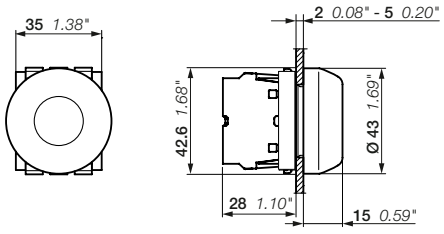


KP6-40B

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

Dimensions (mm, inches)

Modular plastic range

Pilot lights



ML1-100R



ML1-100G



ML1-100Y



ML1-100C



ML1-100L

Pilot lights

Holders and LED blocks are not included. Select the LED block MLBL according to application. For LED block details please see page 58-59.

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

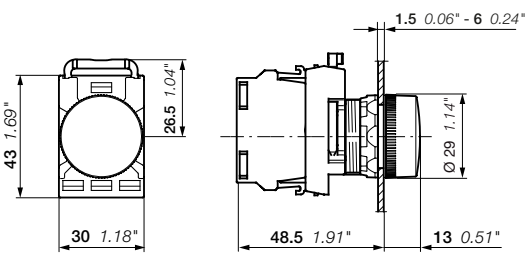
Lens

Light diffusing lens	KA1-8005	1SFA616920R8005	10	0.001

Note: Light diffusing lens is used to improve spread of illumination from LED blocks. Cannot be used together with text cap.

Text cap for pilot lights

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



ML1

Dimensions (mm, inches)

Modular plastic range

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



M2SS1-40B-10

Complete units

Includes actuator, holder and contact blocks.

Operating principle	Color	Bezel	Type	Order code	Contacts	Pkg qty	Weight (1 pce) kg
B C	● Black	Black plastic	M2SS1-40B-10	1SFA611200R4016	1 0	1	0.034
			M2SS1-40B-20	1SFA611200R4026	2 0	1	0.046
			M2SS1-40B-11	1SFA611200R4076	0 1	1	0.030
A C	● Black	Black plastic	M2SS2-40B-10	1SFA611201R4016	1 0	1	0.034
			M2SS2-40B-01	1SFA611201R4046	0 1	1	0.034
			M2SS2-40B-11	1SFA611201R4076	1 1	1	0.046
			M2SS2-40B-20	1SFA611201R4026	2 0	1	0.046
B C	● Black	Black plastic	M2SS3-40B-10	1SFA611202R4016	1 0	1	0.034



1SFC151128V0001

M2SS1-10R



1SFC151315V0001

M2SS1-30B



1SFC151129V0001

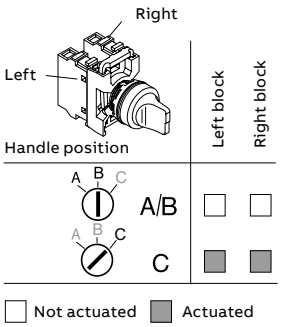
M2SS1-10U

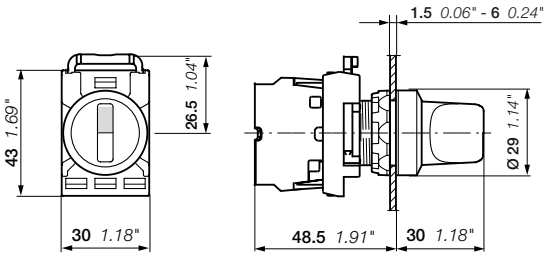
Actuators

Holders and contact blocks are not included.

Operating principle	Color	Bezel	Type	Order code	Pkg qty	Weight (1 pce) kg
B C	● Red	Black plastic	M2SS1-10R	1SFA611200R1001	1	0.015
		Chrome plastic	M2SS1-20R	1SFA611200R2001	1	0.015
		Chrome metal	M2SS1-30R	1SFA611200R3001	1	0.024
	● Black	Black plastic	M2SS1-10B	1SFA611200R1006	1	0.015
		Chrome plastic	M2SS1-20B	1SFA611200R2006	1	0.015
		Chrome metal	M2SS1-30B	1SFA611200R3006	1	0.024
	● Grey	Black plastic	M2SS1-10U	1SFA611200R1007	1	0.015
		Chrome plastic	M2SS1-20U	1SFA611200R2007	1	0.015
A C	● Red	Black plastic	M2SS2-10R	1SFA611201R1001	1	0.015
		Chrome plastic	M2SS2-20R	1SFA611201R2001	1	0.015
		Chrome metal	M2SS2-30R	1SFA611201R3001	1	0.024
	● Black	Black plastic	M2SS2-10B	1SFA611201R1006	1	0.015
				1SFA611201H1006	100	0.015
		Chrome plastic	M2SS2-20B	1SFA611201R2006	1	0.015
		Chrome metal	M2SS2-30B	1SFA611201R3006	1	0.024
	● Grey	Black plastic	M2SS2-10U	1SFA611201R1007	1	0.015
		Chrome plastic	M2SS2-20U	1SFA611201R2007	1	0.015
B C	● Red	Black plastic	M2SS3-10R	1SFA611202R1001	1	0.015
		Chrome plastic	M2SS3-20R	1SFA611202R2001	1	0.015
	● Black	Black plastic	M2SS3-10B	1SFA611202R1006	1	0.015
		Chrome plastic	M2SS3-20B	1SFA611202R2006	1	0.015
		Chrome metal	M2SS3-30B	1SFA611202R3006	1	0.024
	● Grey	Black plastic	M2SS3-10U	1SFA611202R1007	1	0.015
		Chrome plastic	M2SS3-20U	1SFA611202R2007	1	0.015

Contacts actuated





M2SS

Dimensions (mm, inches)

Modular plastic range

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



M2SS4-10R



M2SS4-30B



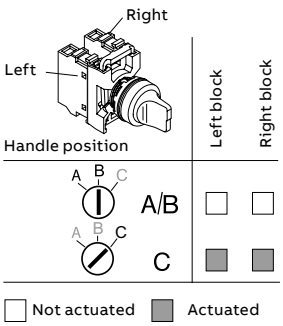
M2SS4-10U

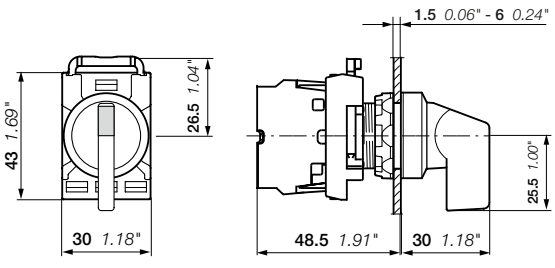
Actuators

Holders and contact blocks are not included.

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

Contacts actuated





M2SS

Dimensions (mm, inches)

Modular plastic range

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



M3SS1-40B-11

Complete units

Includes actuator, holder and contact blocks.

Operating principle	Color	Bezel	Type	Order code	Contacts	Pkg qty	Weight (1 pce) kg
A B C	● Black	Black plastic	M3SS1-40B-11	1SFA611210R4076	1 1	1	0.046
			M3SS1-40B-20	1SFA611210R4026	2 0	1	0.046
A B C	● Black	Black plastic	M3SS2-40B-20	1SFA611211R4026	2 0	1	0.046
A B C	● Black	Black plastic	M3SS3-40B-20	1SFA611212R4026	1 1	1	0.046



1SFC151317V0001

M3SS1-30R



1SFC151130V0001

M3SS2-10B



1SFC151129V0001

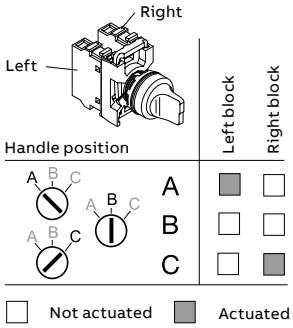
M3SS3-10U

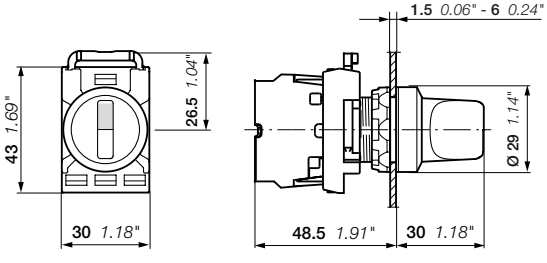
Actuators

Holders and contact blocks are not included.

Operating principle	Color	Bezel	Type	Order code	Pkg qty	Weight (1 pce) kg
A B C	● Red	Black plastic	M3SS1-10R	1SFA611210R1001	1	0.015
		Chrome plastic	M3SS1-20R	1SFA611210R2001	1	0.015
		Chrome metal	M3SS1-30R	1SFA611210R3001	1	0.024
	● Black	Black plastic	M3SS1-10B	1SFA611210R1006	1	0.015
				1SFA611210H1006	100	0.015
		Chrome plastic	M3SS1-20B	1SFA611210R2006	1	0.015
		Chrome metal	M3SS1-30B	1SFA611210R3006	1	0.024
	● Grey	Black plastic	M3SS1-10U	1SFA611210R1007	1	0.015
		Chrome plastic	M3SS1-20U	1SFA611210R2007	1	0.015
		Chrome metal	M3SS1-30U	1SFA611210R3007	1	0.024
A B C	● Red	Black plastic	M3SS2-10R	1SFA611211R1001	1	0.015
		Chrome plastic	M3SS2-20R	1SFA611211R2001	1	0.015
	● Black	Black plastic	M3SS2-10B	1SFA611211R1006	1	0.015
				1SFA611211H1006	100	0.015
		Chrome plastic	M3SS2-20B	1SFA611211R2006	1	0.015
		Chrome metal	M3SS2-30B	1SFA611211R3006	1	0.024
	● Grey	Black plastic	M3SS2-10U	1SFA611211R1007	1	0.015
		Chrome plastic	M3SS2-20U	1SFA611211R2007	1	0.015
A B C	● Red	Black plastic	M3SS3-10R	1SFA611212R1001	1	0.015
	● Black	Black plastic	M3SS3-10B	1SFA611212R1006	1	0.015
		Chrome plastic	M3SS3-20B	1SFA611212R2006	1	0.015
		Chrome metal	M3SS3-30B	1SFA611212R3006	1	0.024
	● Grey	Black plastic	M3SS3-10U	1SFA611212R1007	1	0.015
A B C	● Red	Chrome plastic	M3SS7-20R	1SFA611216R2001	1	0.015
	● Black	Black plastic	M3SS7-10B	1SFA611216R1006	1	0.015
		Chrome plastic	M3SS7-20B	1SFA611216R2006	1	0.015
		Chrome metal	M3SS7-30B	1SFA611216R3006	1	0.024

Contacts actuated





M3SS

Dimensions (mm, inches)

Modular plastic range

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



M3SSC1-10B



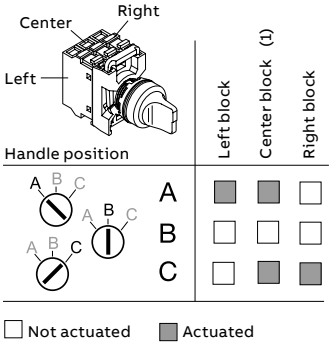
M3SSC3-30B

Center block operating actuators

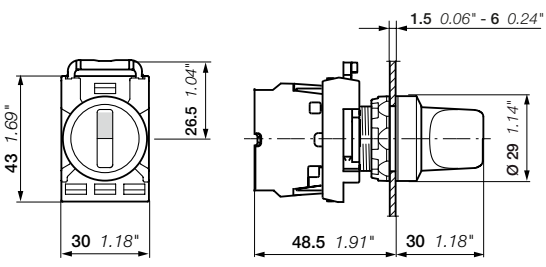
Holders and contact blocks are not included.

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

Contacts actuated



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



M3SSC

Dimensions (mm, inches)

Modular plastic range

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



M3SS4-10R



M3SS5-30B



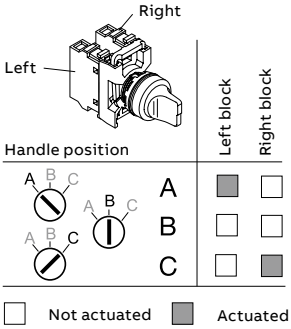
M3SS6-10U

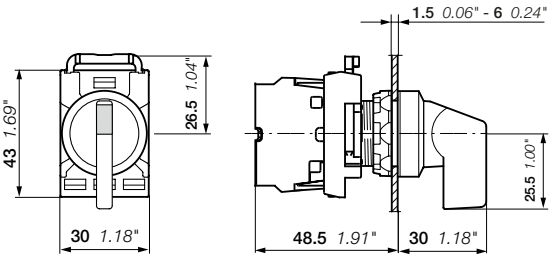
Actuators

Holders and contact blocks are not included.

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

Contacts actuated





M3SS

Dimensions (mm, inches)

Modular range

Non-illuminated selector switches - 4-position



M4SS1-10B



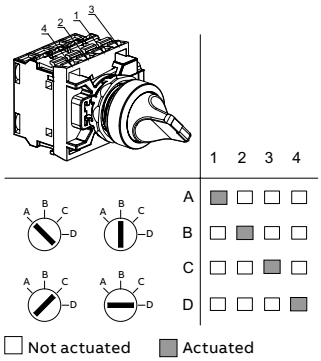
M4SS2-30R

Actuator and 4-position holder

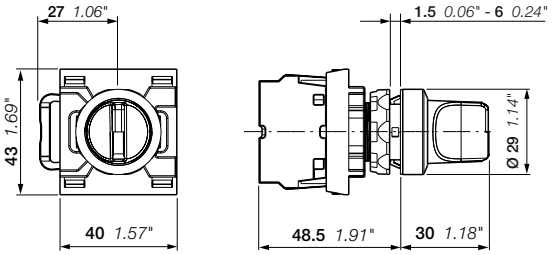
Contact blocks need to be ordered separately.

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

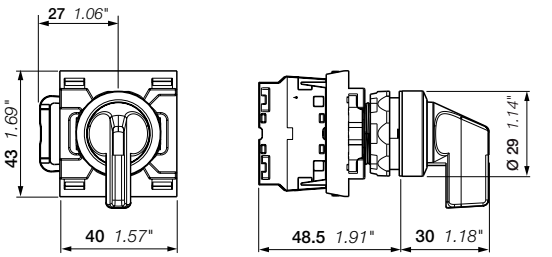
Contacts actuated



☐ Not actuated ■ Actuated



M4SS Short handle



M4SS Long handle

Dimensions (mm, inches)

Modular plastic range

Illuminated selector switches - 2-position - Short handle



M2SS1-11R



1SFC151145V0001

M2SS1-31G



1SFC151140V0001

M2SS2-11Y



1SFC151142V0001

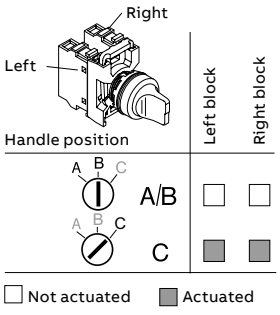
M2SS2-11L



1SFC151143V0001

M2SS3-11C

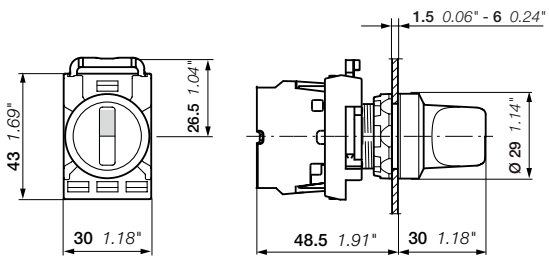
Contacts actuated



Actuators

Holders, contact blocks and LED blocks are not included. Select the LED block MLBL according to application. For LED block details please see page 58-59.

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



M2SS

Dimensions (mm, inches)

Modular plastic range

Illuminated selector switches - 2-position - Short handle



M2SS1-41G-10



M2SS2-41C-11

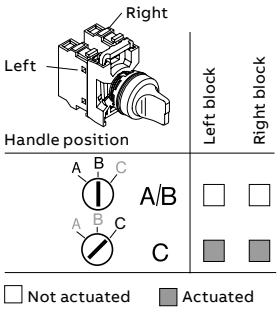
Complete units

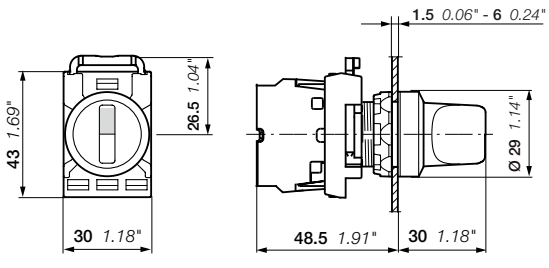
Includes actuator, holder and contact blocks. Note that LED blocks are not included. Select the LED block MLBL according to application. For LED block details please see page 58-59.

Operating principle	Color	Bezel	Type	Order code	Contacts	Pkg qty	Weight (1 pce) kg
B C	Red	Black plastic	M2SS1-41R-11	1SFA611200R4171	1 1	1	0.046
	Green	Black plastic	M2SS1-41G-10	1SFA611200R4112	1 0	1	0.034
	Yellow	Black plastic	M2SS1-41Y-10	1SFA611200R4113	1 0	1	0.034
	Blue	Black plastic	M2SS1-41L-10	1SFA611200R4114	1 0	1	0.034
	Clear	Black plastic	M2SS1-41C-10	1SFA611200R4118	1 0	1	0.034
A C	Green	Black plastic	M2SS2-41G-10	1SFA611201R4112	1 0	1	0.034
	Yellow	Black plastic	M2SS2-41Y-20	1SFA611201R4123	2 0	1	0.046
	Blue	Black plastic	M2SS2-41L-20	1SFA611201R4124	2 0	1	0.046
	Clear	Black plastic	M2SS2-41C-10	1SFA611201R4118	1 0	1	0.034
			M2SS2-41C-11	1SFA611201R4178	1 1	1	0.046

LED blocks are not included. Select the LED block MLBL according to application. Details for LED block MLBL please see page 58-59.

Contacts actuated





M2SS

Dimensions (mm, inches)

Modular plastic range

Illuminated selector switches - 2-position - Long handle



M2SS4-11R

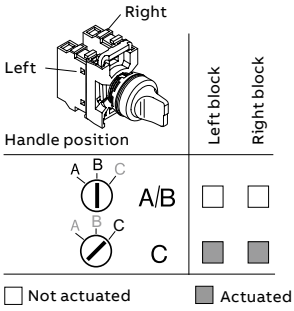


M2SS4-31G



M2SS5-11Y

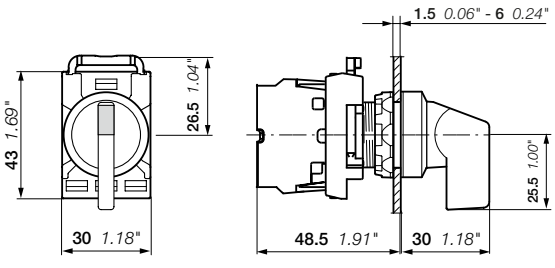
Contacts actuated



Actuators

Holders, contact blocks and LED blocks are not included. Select the LED block MLBL according to application. For LED block details please see page 58-59.

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



M2SS

Dimensions (mm, inches)

Modular plastic range

Illuminated selector switches - 3-position - Short handle



M2SS1-11R



M2SS1-11G



M3SS2-11Y



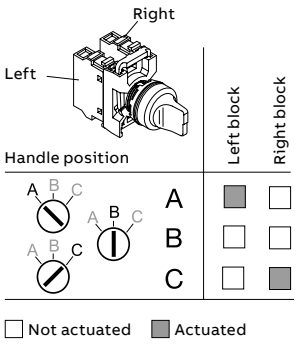
M3SS3-31C

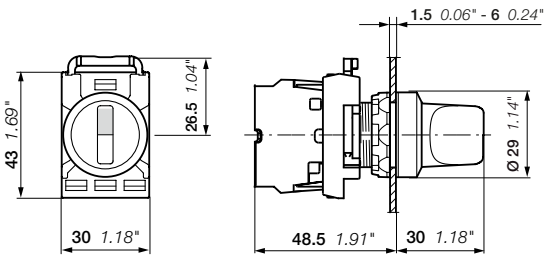
Actuators

Holders, contact blocks and LED blocks are not included. Select the LED block MLBL according to application. For LED block details please see page 58-59.

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

Contacts actuated





M3SS

Dimensions (mm, inches)

Modular plastic range

Illuminated selector switches - 3-position - Short handle



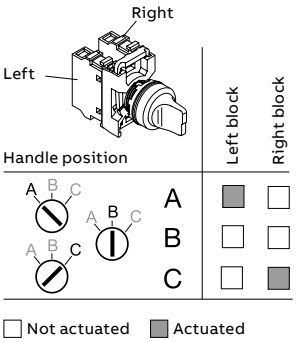
M3SS1-41R-20

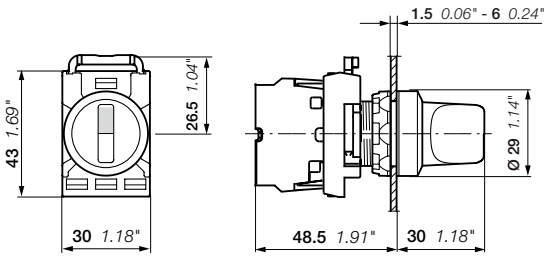
Complete units

Includes actuator, holder and contact blocks. Note that LED blocks are not included. Select the LED block MLBL according to application. For LED block details please see page 58-59.

Operating principle	Color	Bezel	Type	Order code	Contacts	Pkg qty	Weight (1 pce) kg
	Red	Black plastic	M3SS1-41R-20	1SFA611210R4121	2 0	1	0.046
			M3SS1-41R-11	1SFA611210R4171	1 1	1	0.046
	Green	Black plastic	M3SS1-41G-20	1SFA611210R4122	2 0	1	0.046
	Clear	Black plastic	M3SS1-41C-20	1SFA611210R4128	2 0	1	0.046
	Green	Black plastic	M3SS2-41G-20	1SFA611211R4122	2 0	1	0.046
	Green	Black plastic	M3SS3-41G-20	1SFA611212R4122	2 0	1	0.046

Contacts actuated





M3SS

Dimensions (mm, inches)

Modular plastic range

Illuminated selector switches - 3-position - Long handle



M3SS4-11R



M3SS4-11G

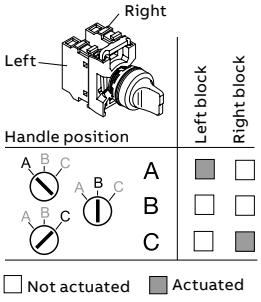


M3SS4-11Y



M3SS4-31C

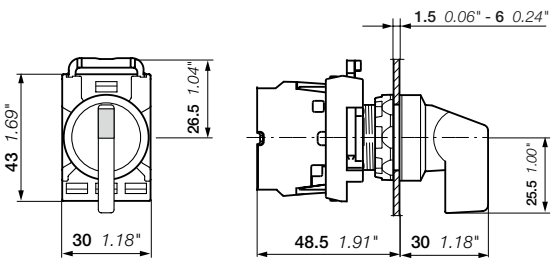
Contacts actuated



Actuators

Holders, contact blocks and LED blocks are not included. Select the LED block MLBL according to application. For LED block details please see page 58-59.

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



M3SS

Dimensions (mm, inches)

Modular plastic range

Key-operated selector switches - 2-position



M2SSK1-101

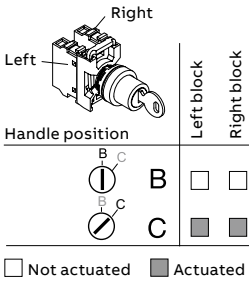
Description

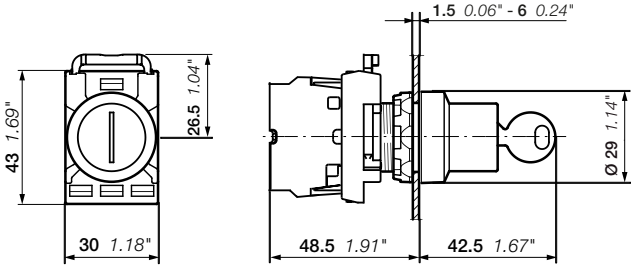
Key-operated selector switches are delivered in black color.
Holders and contact blocks are not included.

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
	Random selection (2)	Black plastic	M2SSK4-105	1SFA611289R1005	5	0.045

(1) The order code includes 25 key operated selector switches. Each selector switch has a unique key code. (Key codes 455, 421 and 3433-E are not among the 25.)
(2) The order code includes 5 key operated selector switches. Each selector switch has a unique key code. (Key codes 455, 421 and 3433-E are not among the 5.)

Contacts actuated





M2SSK

Dimensions (mm, inches)

Modular plastic range

Key-operated selector switches - 2-position



M2SSK1-401-10



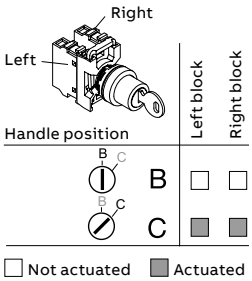
M2SSK2-601-20

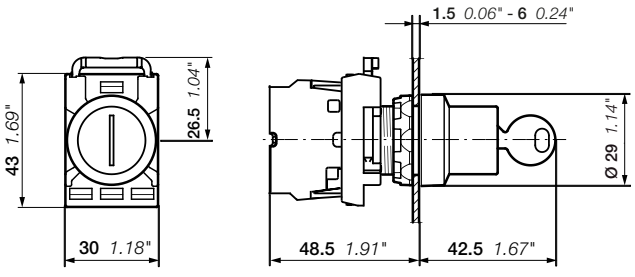
Complete units

Includes actuator, holder and contact blocks.

Operating principle	Key	Bezel	Type	Order code	Contacts	Pkg qty	Weight (1 pce) kg
B C Key can be removed in both positions	Key code 455	Black plastic	M2SSK1-401-10	1SFA611280R4011	1 0	1	0.064
B C Key can be removed in B position only	Key code 455	Black plastic	M2SSK2-401-10	1SFA611281R4011	1 0	1	0.064
		Chrome metal	M2SSK2-601-20	1SFA611281R6021	2 0	1	0.085

Contacts actuated





M2SSK

Dimensions (mm, inches)

Modular plastic range

Key-operated selector switches - 3-position



M2SSK1-101

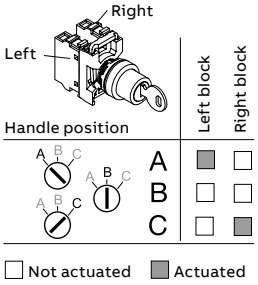
Description

Key-operated selector switches are delivered in black color.
Holders and contact blocks are not included.

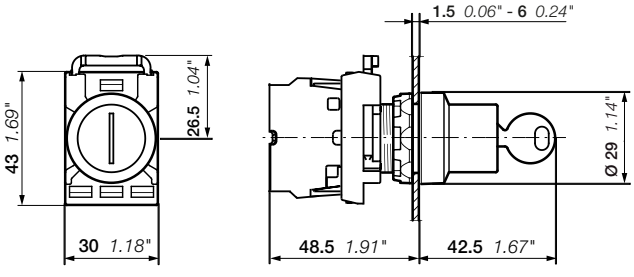
Operating principle	Key	Bezel	Type	Order code	Pkg qty	Weight (1 pce) kg
 Key can be removed in all positions	Key code 455	Black plastic	M3SSK1-101	1SFA611283R1001	1	0.045
		Chrome plastic	M3SSK1-201	1SFA611283R2001	1	0.045
		Chrome metal	M3SSK1-301	1SFA611283R3001	1	0.054
	Key code 421	Black plastic	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
 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 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 has unique key code. (Key codes 455, 421 and 3433-E not among the 25.)

Contacts actuated



☐ Not actuated ■ Actuated



M3SSK

Dimensions (mm, inches)

Modular plastic range

Key-operated selector switches - 3-position



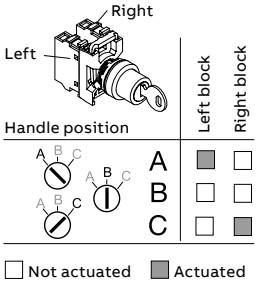
M3SSK3-401-20

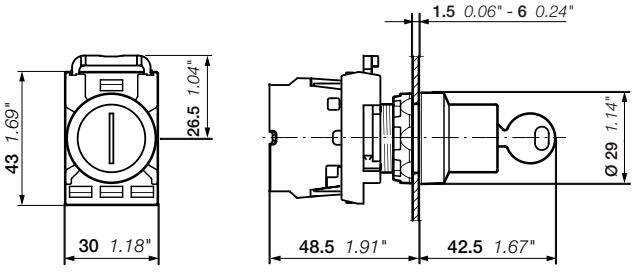
Complete units

Includes actuator, holder and contact blocks.

Operating principle	Key	Bezel	Type	Order code	Contacts	Pkg qty	Weight (1 pce) kg
 Key can be removed in all positions	Key code 455	Black plastic	M3SSK1-401-20	1SFA611283R4021	2 0	1	0.076
 Key can be removed in position B only	Key code 455	Black plastic	M3SSK3-401-20	1SFA611285R4021	2 0	1	0.076

Contacts actuated





M3SSK

Dimensions (mm, inches)

Modular plastic range

Potentiometers



MT-110B

Description

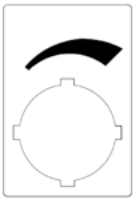
Black knob with integrated position indication and marking in white.

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 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

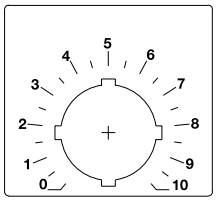
(1) Knob without resistor: for shaft diameter 6-6.35 mm. Min. shaft length 20 mm.



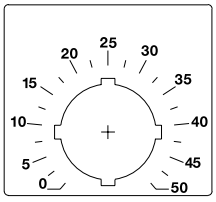
MA6-1252



SK615562-87



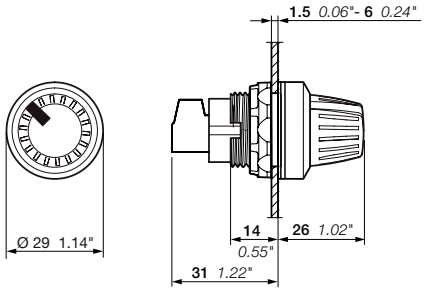
SK615562-88



MA6-1252

Technical data

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



MT

Dimensions (mm, inches)

Modular plastic range

Reset pushbuttons



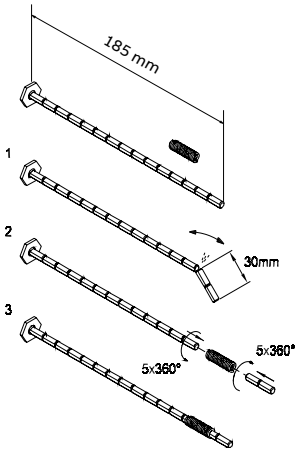
KPR1-100G



KPR1-101L



KPR1-104B



KA1-8046



KA1-8047

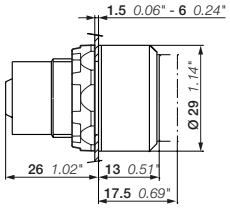
Description

Reset pushbuttons are momentary and include only black plastic bezel.

Color	Text	Type	Order code	Pkg qty	Weight (1 pce) kg
Flush reset pushbutton					
● Red	No text	KPR1-100R	1SFA616160R1001	10	0.020
● Green	No text	KPR1-100G	1SFA616160R1002	10	0.020
	I	KPR1-102G	1SFA616160R1022	10	0.020
● Yellow	No text	KPR1-100Y	1SFA616160R1003	10	0.020
● Blue	No text	KPR1-100L	1SFA616160R1004	10	0.020
	R	KPR1-101L	1SFA616160R1014	10	0.020
○ White	No text	KPR1-100W	1SFA616160R1005	10	0.020
	R	KPR1-101W	1SFA616160R1015	10	0.020
	I	KPR1-102W	1SFA616160R1025	10	0.020
	II	KPR1-103W	1SFA616160R1035	10	0.020
● Black	No text	KPR1-100B	1SFA616160R1006	10	0.020
	RESET	KPR1-104B	1SFA616160R1046	10	0.020
Extended reset pushbutton					
● Red	No text	KPR2-100R	1SFA616161R1001	10	0.021
	O	KPR2-105R	1SFA616161R1051	10	0.021
● Black	No text	KPR2-100B	1SFA616161R1006	10	0.021

Accessories

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



KPR1, KPR2

Dimensions (mm, inches)

Modular plastic range

Reset pushbuttons with shaft



KPR3-100R



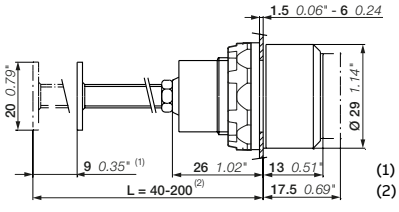
KPR3-104B

Actuator with shaft

Reset pushbuttons are momentary and include only black plastic bezel.

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

Note: Flexible joint not included.



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

KPR3, KPR4

Dimensions (mm, inches)

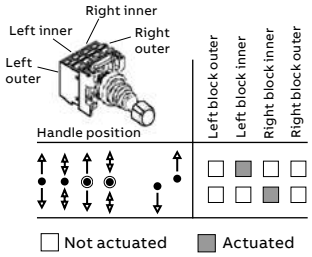
Modular plastic range

Joysticks

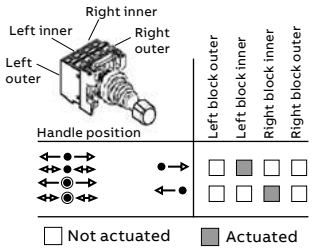


MJS1-60B

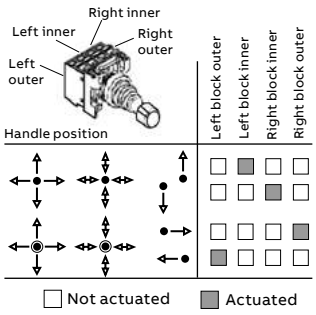
Contacts actuated



Contacts actuated



Contacts actuated





MA1-8138



MA1-8137

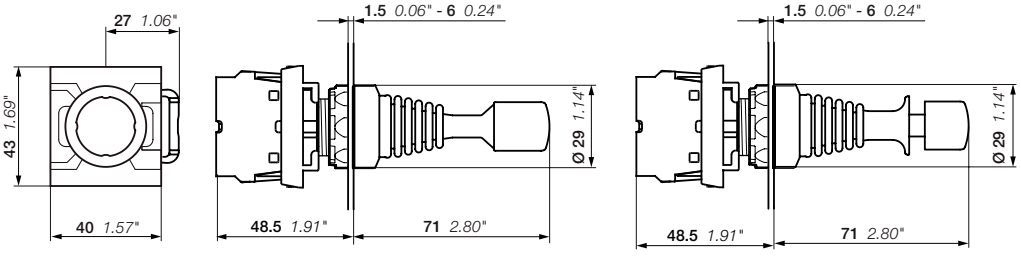
Actuator with 4-position holder

IP protection degree : IP66, IP67 and IP69K. 4-position holder included. Contact blocks are not included. The latching function prevents unintended activation. Double-headed arrows indicate spring return function.

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	MJS8-40B	1SFA611708R4006	1	0.043
	Chrome metal	MJS8-60B	1SFA611708R6006	1	0.052
	Black plastic	MJS9-40B	1SFA611709R4006	1	0.043
	Chrome metal	MJS9-60B	1SFA611709R6006	1	0.052
	Chrome metal	MJS10-60B	1SFA611710R6006	1	0.052
	Black plastic	MJS11-40B	1SFA611711R4006	1	0.043
	Chrome metal	MJS11-60B	1SFA611711R6006	1	0.052
	Black plastic	MJS12-40B	1SFA611712R4006	1	0.043
	Chrome metal	MJS12-60B	1SFA611712R6006	1	0.052

Accessories

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



MJS

Dimensions (mm, inches)

Modular plastic range

Toggle switches



MTS1-10B



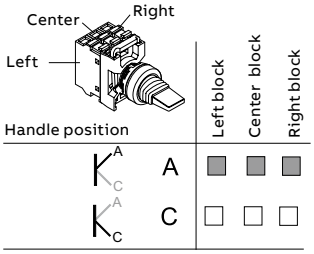
MTS1-30B

Actuators

Holders and contact blocks are not included.

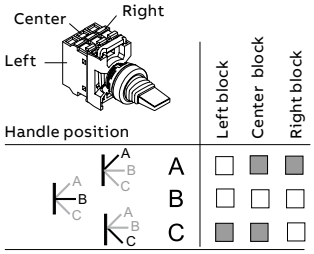
Operating principle	Bezel	Type	Order code	Pkg qty	Weight (1 pce) kg
2-position					
A C	Black plastic	MTS1-10B	1SFA611300R1006	10	0.014
	Chrome plastic	MTS1-20B	1SFA611300R2006	10	0.014
	Chrome metal	MTS1-30B	1SFA611300R3006	10	0.023
3-position					
A B C	Black plastic	MTS3-10B	1SFA611302R1006	10	0.014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

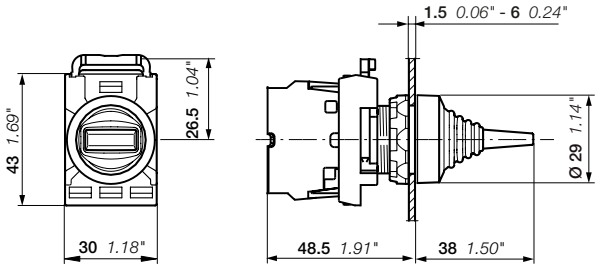


☐ Not actuated ■ Actuated

Contacts actuated, 3-position



☐ Not actuated ■ Actuated



MTS

Dimensions (mm, inches)

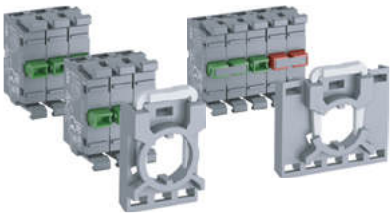
Modular plastic range

Contact block configuration

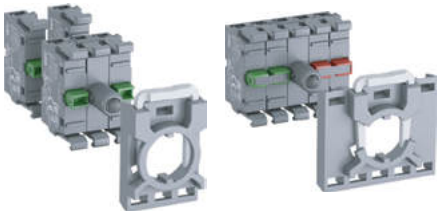
Pushbuttons and Mushroom pushbuttons



Non-illuminated



Illuminated



Double pushbuttons



Non-illuminated



Illuminated



Selector switches



Non-illuminated



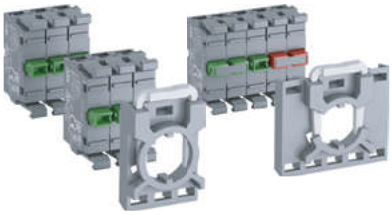
Illuminated



Center block operating selector switches



Non-illuminated



4-position selector switches



Non-illuminated



Emergency stops and Machine stop pushbuttons



Non-illuminated



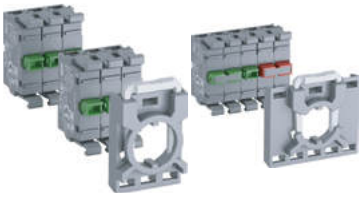
Illuminated



Toggle switches



Non-illuminated



Modular plastic range

Contact block configuration

Pilot lights





Joysticks





Heavy duty pushbutton



Non-illuminated



Holder included in heavy duty pushbutton

Maximum number of electrical contacts

Holder	Standard 3 positions	Optional 5 positions
Momentary and maintained pushbuttons Momentary mushroom pushbuttons	6	5
Illuminated momentary and maintained pushbuttons Illuminated momentary mushroom pushbuttons	4	4
Non-illuminated and illuminated double pushbuttons	4	4
Non-illuminated and illuminated selector switches Key selector switches	4	4
Toggle switches Center block operating selector switches	6	5
4-position selector switches	4	-
Heavy duty pushbuttons[1]	6	-
Emergency stops and machine stops	6	-
Illuminated emergency stops and machine stops	4	-
Joysticks[2]	8	-

1) 3-position holder included in the operator
2) 4-position holder included in the operator

Modular plastic range

Holders and contact blocks for front mounting



MCBH-00



MCBH5-00



MCB-10



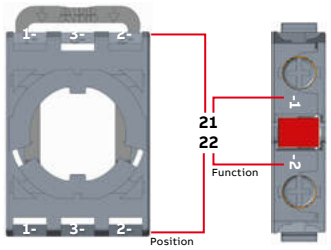
MCB-02

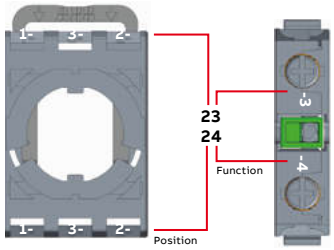


MCBL-01

Description	Contacts	Type	Order code	Pkg qty	Weight (1 pce)
					kg
Holders					
3-position	– –	MCBH-00	1SFA611605R1100	10	0.006
			1SFA611605H1100	100	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
			1SFA611610H1001	100	0.013
	0 1	MCB-01	1SFA611610R1010	10	0.013
			1SFA611610H1010	100	0.013
Single contact blocks, gold plated contacts					
For 3 & 5-position holder	1 0	MCB-10G	1SFA611610R1101	10	0.013
	0 1	MCB-01G	1SFA611610R1110	10	0.013
Double contacts blocks					
For 3 & 5-position holder	2 0	MCB-20	1SFA611610R1002	10	0.026
	0 2	MCB-02	1SFA611610R1020	10	0.026
	1 1	MCB-11	1SFA611610R1011	10	0.026
Double contact blocks, gold plated contacts					
For 3 & 5-position holder	2 0	MCB-20G	1SFA611610R1102	10	0.026
	0 2	MCB-02G	1SFA611610R1120	10	0.026
	1 1	MCB-11G	1SFA611610R1111	10	0.026
Micro switch contact blocks					
For 3-position holder	1 0	MCBL-10	1SFA611612R1010	10	0.013
	0 1	MCBL-01	1SFA611612R1001	10	0.013

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



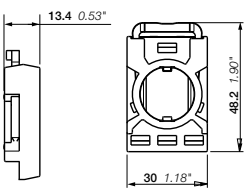


Combined markings

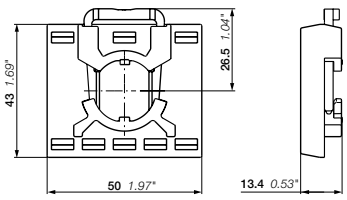
11	31	21
12	32	22

Combined markings

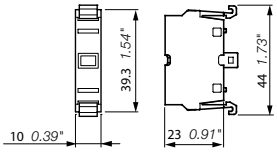
13	33	23
14	34	24



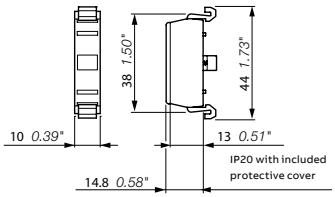
MCBH



MCBH5



MCB



MCBL

Dimensions (mm, inches)

Modular plastic range

Contact block complete unit



MCBH-10



MCBH-02



MCBH-30

Description	Contacts	Type	Order code	Pkg qty	Weight (1 pce)
					kg
Holder with one contact block					
With 3-position holder	1 0	MCBH-10	1SFA611605R1101	10	0.019
			1SFA611605H1101	100	0.019
	0 1	MCBH-01	1SFA611605R1110	10	0.019
			1SFA611605H1110	100	0.019
Holder with two contacts blocks					
With 3-position holder	2 0	MCBH-20	1SFA611605R1102	10	0.032
			1SFA611605H1102	100	0.032
	0 2	MCBH-02	1SFA611605R1120	10	0.032
	1 1	MCBH-11	1SFA611605R1111	10	0.032
Holder with three contacts blocks					
With 3-position holder	3 0	MCBH-30	1SFA611605R1103	10	0.045
	0 3	MCBH-03	1SFA611605R1130	10	0.045
	1 2	MCBH-12	1SFA611605R1121	10	0.045
	2 1	MCBH-21	1SFA611605R1112	10	0.045

Modular plastic range

LED blocks for front mounting



MLBL-00W

Color	Rated current mA	Wavelength nm	Type	Order code	Pkg qty	Weight (1pce) kg
Rated voltage 12 V DC						
Red	12	620	MLBL-00R	1SFA611621R1001	10	0.012
Green	12	520	MLBL-00G	1SFA611621R1002	10	0.012
Yellow	12	588	MLBL-00Y	1SFA611621R1003	10	0.012
Blue	12	468	MLBL-00L	1SFA611621R1004	10	0.012
White	12	(1)	MLBL-00W	1SFA611621R1005	10	0.012
Rated voltage 24 V AC/DC						
Red	10	620	MLBL-01R	1SFA611621R1011	10	0.012
				1SFA611621H1011	100	0.012
Green	10	520	MLBL-01G	1SFA611621R1012	10	0.012
				1SFA611621H1012	100	0.012
Yellow	10	588	MLBL-01Y	1SFA611621R1013	10	0.012
				1SFA611621H1013	100	0.012
Blue	10	468	MLBL-01L	1SFA611621R1014	10	0.012
White	10	(1)	MLBL-01W	1SFA611621R1015	10	0.012
				1SFA611621H1015	100	0.012
Rated voltage 48 V AC/DC						
Red	10	620	MLBL-02R	1SFA611621R1021	10	0.012
Green	10	520	MLBL-02G	1SFA611621R1022	10	0.012
Yellow	10	588	MLBL-02Y	1SFA611621R1023	10	0.012
Blue	10	468	MLBL-02L	1SFA611621R1024	10	0.012
White	10	(1)	MLBL-02W	1SFA611621R1025	10	0.012
Rated voltage 60 V AC/DC						
Red	13	620	MLBL-03R	1SFA611621R1031	10	0.012
Green	13	520	MLBL-03G	1SFA611621R1032	10	0.012
Yellow	13	588	MLBL-03Y	1SFA611621R1033	10	0.012
Blue	13	468	MLBL-03L	1SFA611621R1034	10	0.012
White	13	(1)	MLBL-03W	1SFA611621R1035	10	0.012
Rated voltage 110-130 V AC						
Red	15	620	MLBL-04R	1SFA611621R1041	10	0.012
Green	15	520	MLBL-04G	1SFA611621R1042	10	0.012
Yellow	15	588	MLBL-04Y	1SFA611621R1043	10	0.012
Blue	15	468	MLBL-04L	1SFA611621R1044	10	0.012
White	15	(1)	MLBL-04W	1SFA611621R1045	10	0.012
Rated voltage 110-130 V DC						
Red	10	620	MLBL-05R	1SFA611621R1051	10	0.012
Green	10	520	MLBL-05G	1SFA611621R1052	10	0.012
Yellow	10	588	MLBL-05Y	1SFA611621R1053	10	0.012
Blue	10	468	MLBL-05L	1SFA611621R1054	10	0.012
White	10	(1)	MLBL-05W	1SFA611621R1055	10	0.012
Rated voltage 220 V DC						
Red	8	620	MLBL-06R	1SFA611621R1061	10	0.012
Green	8	520	MLBL-06G	1SFA611621R1062	10	0.012
Yellow	8	588	MLBL-06Y	1SFA611621R1063	10	0.012
Blue	8	468	MLBL-06L	1SFA611621R1064	10	0.012
White	8	(1)	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



MLBL-00W

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

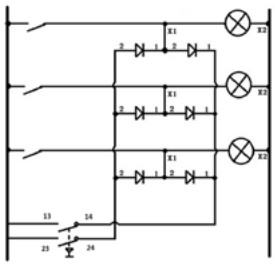
Note: care should be taken for DC supply where + and - must be correctly connected. This is marked X1 (+) and X2 (-) on the product.
(1) X=0.31, Y=0.32 according to the ICI Chromaticity diagram.
(2) Higher threshold to light up LED to be used in application where there is risk of large induced voltages.



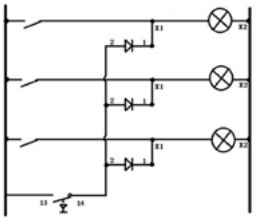
MDB-101

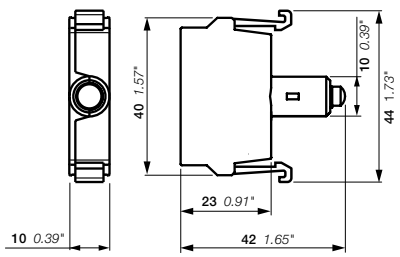
Discription	Type	Order Code	Pkg qty	Weight (1pce) kg
Diode block	MDB-1001	1SFA611630R1001	10	0.015

Lamp test diagram with MLBL-04* and -07*



Lamp test diagram with MLBL-00*, -01*, -02*, -03*, -05* and -06*





MLBL

Dimensions (mm, inches)

Modular plastic range

Accessories



KA1



MP1-04



M3SS-04



MA1-8052



MA1-8126



KA1-8010



KA1-8022/KA1-8021



SK616016-2



MA1-8153



MA1-8152



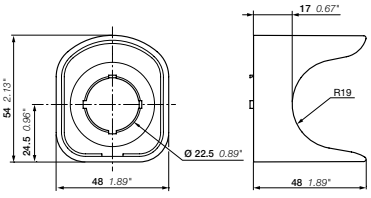
MA1-8053



MA1-8128

Description	Bezel / color	Type	Order code	Pkg qty	Weight (1pce) kg
30 mm adapters for 22 mm operator (1.5 - 4 mm panel thickness)					
Emergency stop pushbuttons, MPM	Black plastic	KA1-8027	1SFA616920R8027	1	0.007
	Chrome metal	KA1-8028	1SFA616920R8028	1	0.021
Pushbuttons, selector switches, pilot lights, potentiometers, emergency stop pushbuttons, MPE, MJS	Black plastic	KA1-8029	1SFA616920R8029	1	0.010
	Chrome metal	KA1-8030	1SFA616920R8030	1	0.035
Flush mounted pushbuttons	Chrome metal	KA1-8073	1SFA616920R8073	1	0.050
Flush mounted selector switches	Chrome metal	MA1-8074	1SFA611920R8074	1	0.050
Protective membrane, silicone					
Flush pushbutton		MA1-8052	1SFA611920R8052	10	0.002
Double pushbutton		MA1-8126	1SFA611920R8126	10	0.002
Extended pushbutton		MA1-8002	1SFA611920R8002	10	0.002
Protective ring To prevent accidental operation. Cannot be used together with Legend plate holder					
Flush and extended pushbuttons	Clear plastic	-	SK615512-1	10	0.002
Flush pushbuttons	Metal and black plastic	KA1-8010	1SFA616920R8010	10	0.008
Bezel					
Pushbuttons	Black plastic	KA1-8022	1SFA616920R8022	10	0.002
	Chrome plastic	KA1-8020	1SFA616920R8020	10	0.002
	Chrome metal	KA1-8021	1SFA616920R8021	10	0.015
Selector switches	Black plastic	KA1-8080	1SFA616920R8080	10	0.002
	Chrome metal	KA1-8024	1SFA616920R8024	10	0015
Square bezel					
Black plastic		-	SK616016-2	10	0.001
Lockable shroud					
Pushbuttons, selector switches	Plastic	MA1-8153	1SFA611920R8153	1	0.023
Emergency stop 30 mm	Metal	-	SK615502-D	1	0.080
Touch guard					
Touch guard		MA1-8152	1SFA611920R8152	1	0.023
Shroud with anti rotation tabs and water drainage					
Emergency stop, machine stop 40 mm	Yellow	MA1-8053	1SFA611920R8053	1	0.020
	Grey	MA1-8128	1SFA611920R8128	1	0.020

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



MA1

Dimensions (mm, inches)

Modular plastic range

Accessories


1SFC151276V0001

MA1-8131


1SFC151455F0001

MDB-2


1SFC151275V0001

MA1-8015


1SFC151004F0001

MA1-8149


1SFC151385V0001

MA1-8019


1SFA611630R1001

MDB-1001



MA1-8151

Description	Material	Suitable for[1]	Type	Order code	Pkg qty[2]	Weight (1pce)[3] kg
DIN-rail adapter						
DIN-rail adapter			MA1-8131	1SFA611920R8131	1	0.020
DIN-rail adapter with one dummy block			MA1-8001	1SFA611920R8001	1	0.028
Dummy block			MDB-2	1SFA611630R1002	10	0.003
Note: Din-rail adapter should be used with 2 contact blocks for rear mounting type MCB..B.						
Note: Dummy blocks are used when only one contact block or a compact pilot device is used together with the DIN-rail adapter						
Mounting tools						
Mounting tool for tightening the locking nut			MA1-8015	1SFA611920R8015	1	0.021
Mounting tool for power tool			MA1-8149	1SFA611920R8149	1	0.155
Extra key						
Key code 455	Metal	M*SSK*-*01, MPEK*-11*	MA1-8165	1SFA611920R8165	5	0.011
Key code 421	Metal	M*SSK*-*02, MPEK*-12*	MA1-8166	1SFA620920R8166	5	0.011
Key code 3433-E	Metal	M*SSK*-*03, MPEK*-13*	MA1-8167	1SFA620920R8167	5	0.011
1) * means that several different versions exist.						
2) Package quantity is 5 pairs (= 10 keys).						
3) 1 pce means 1 pair of keys (= 2 keys)						
Locking nut						
Locking nut			MA1-8019	1SFA611920R8019	10	0.001
Diode block						
Diode block			MDB-1001	1SFA611630R1001	10	0.015
Gasket						
Gasket			MA1-8151	1SFA611920H8151	100	0.001

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

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 and humidity

Ambient temperature during operation [1)]	-25 to +70 °C
Storage temperature	-40 to +85 °C
Humidity (operated relative humidity):	
General, excluding LED block MLBL	20 to 70%rh at 25 °C
LED block MLBL	40 to 70%rh at 25 °C

1) Ambient temperature during operation for MEP plastic enclosure is -30 to +70 °C.

Modular plastic range

Technical data

Connecting capacity

Contact block type			MCB	MLBL	MCBL
Connection capacity (min. … max.)					
	Solid/stranded	1x	0.75...2.5 mm²	0.75...2.5 mm²	0.5...1.5 mm²
		2x	0.75...2.5 mm²	0.75...2.5 mm²	0.5...1.5 mm²
	Flexible	1x	0.75...2.5 mm²	0.75...2.5 mm²	0.5...1.5 mm²
		2x	0.75...2.5 mm²	0.75...2.5 mm²	0.5...1.5 mm²
	Flexible with non insulated ferrule	1x	0.75...2.5 mm²	0.75...2.5 mm²	0.5...1.5 mm²
		2x	0.75...2.5 mm²	0.75...2.5 mm²	0.5...1.5 mm²
	Flexible with insulated ferrule	1x	0.75...2.5 mm²	0.75...2.5 mm²	0.5...1.5 mm²
		2x	0.75...2.5 mm²	0.75...2.5 mm²	0.5...1.5 mm²
	Lugs	L≤ I>	7.0 mm 3.5 mm	7.0 mm 3.5 mm	5.9 mm 3.0 mm
Connection capacity acc. to UL/CSA		1 or 2 x	AWG 18..14	AWG 18..14	AWG 18..14
Stripping length			8.0 mm	8.0 mm	6.0 mm
Tightening torque					
	Cable terminals M3.5		0.9 Nm		
	Recommended screwdriver for cable terminal		Pozidriv No. 2		
	Operators locking nut		Min. 2 Nm / Max. 2.3 Nm		

Material

No ozone depleting substances in the products. All front of panel plastic components are made of polycarbonate	
PC polycarbonate	High impact strength, good outdoor resistance. Chemical resistance (see table below)
PSU polysulphone	Can withstand high temperatures, acids, basic solutions, alkaline compounds, oils, alcohols
PA polyamide	Can withstand high temperatures, aliphatic, aromatic and chlorinated hydrocarbons, esters, ketone-aldehydes, alcohols and basic solutions
PBT	Can withstand high temperature, aliphatic and aromatic hydrocarbons, acids, basic solutions, alcohols, grease and oils
Zinc	Good corrosion resistance in inland-, sea and industrial atmosphere
Light-alloy	Good corrosion resistance in inland-, sea and industrial atmosphere

Chemical resistance for polycarbonate

Chemical class	Effects	
Alcohols and alkalis	Generally compatible at low concentration and room temperature. Higher concentrations and elevated temperatures can result in etching and attack evidenced by decomposition	
Aliphatic hydrocarbons	Generally compatible	
Amines	Surface crystallization and chemical attack.	Avoid
Aromatic hydrocarbons	Partial solvents and severe stress cracking agents (i.e., xylene, 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	

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	0.55 A
	at: 250 V	0.27 A
Rated impulse withstand voltage	Uimp	6 kV
Rated frequency		50/60 Hz
Pollution degree		3

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

Max. number of contact blocks per operator

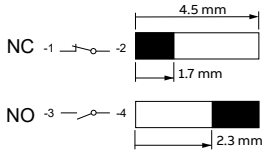
The contact blocks can be stacked in max two levels on the 3-block holder. Only one level is accepted on the 5-block holder.

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

Short circuit protection

Max. fuse at 1 kA	gG 16A

Diagram for make and break contact MCB, MCBL



= Closed contact

Micro switch block

Ratings as per IEC 60947-5-1

Rated insulation voltage, 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 utilization 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

Modular plastic range

Technical data

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
Heavy duty pushbuttons KP6			4 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
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 and current peaks up to 500 mA during a few msec.
Glowing light	All integrated LED bulbs have a function built in to cut leakage currents
Rated frequency	50/60 Hz for AC supplied products

Modular plastic range

Technical data

LED blocks front and rear mounting MLBL

Color	Current		Illuminance		Anti ... inductive peak voltage	Main wavelength	Color temperature
	mA		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	–
White	8	12	1800	8500	5	–	8000 ... 12000
Voltage range 24 V AC / DC							
Red	8	12	900	3100	9	620 ... 625	–
Green	8	12	3000	11500	9	515 ... 520	–
Yellow	8	12	800	3100	9	585 ... 590	–
Blue	8	12	900	5000	9	465 ... 470	–
White	8	11	1800	8500	9	–	8000 ... 12000
Voltage range 48 V AC / DC							
Red	8	12	900	3100	5	620 ... 625	–
Green	8	12	3000	11500	5	515 ... 520	–
Yellow	8	12	1000	3400	5	585 ... 590	–
Blue	8	12	1500	5300	5	465 ... 470	–
White	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	–
White	8	12	1800	8500	5	–	8000 ... 12000
Voltage range 110 ... 130 V AC							
Red	13	17	900	3100	25	620 ... 625	–
Green	13	17	2500	11700	25	515 ... 520	–
Yellow	13	17	1000	3700	25	585 ... 590	–
Blue	13	17	1000	5200	25	465 ... 470	–
White	13	17	1850	8800	25	–	8000 ... 12000
Voltage range 110 ... 130 V DC							
Red	8	12	900	3100	15	620 ... 625	–
Green	8	12	3000	11500	15	515 ... 520	–
Yellow	8	12	1000	3400	15	585 ... 590	–
Blue	8	12	1500	5300	15	465 ... 470	–
White	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

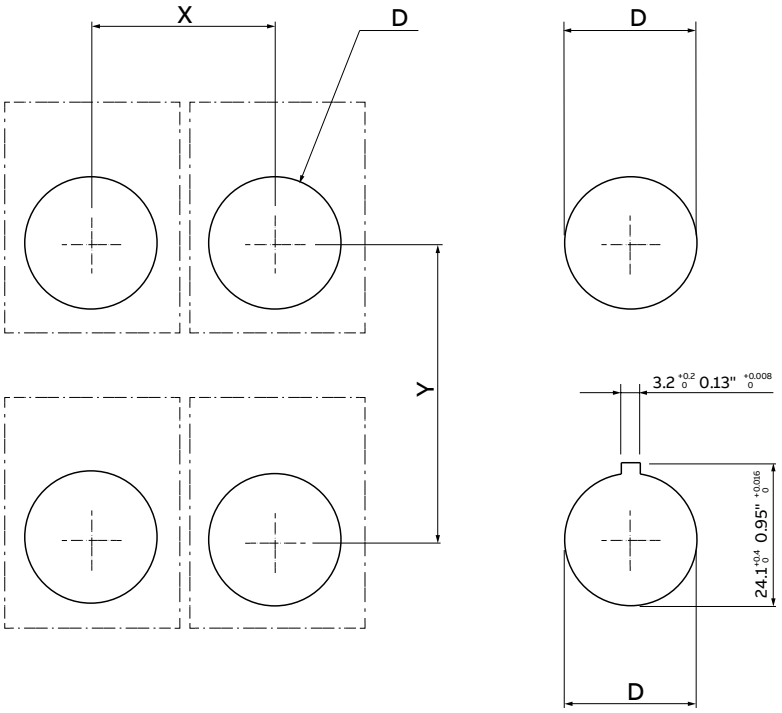
Technical data

Color	Current		Illuminance		Anti-inductive peak voltage	Main wavelength	Color temperature
	mA		lx				
	Min.	Max.	Min.	Max.	V	Nm	K
Voltage range 220 V DC							
Red	7	10	700	2300	15	620 ... 625	–
Green	7	10	2400	8000	15	515 ... 520	–
Yellow	7	10	800	3100	15	585 ... 590	–
Blue	7	10	1200	4350	15	465 ... 470	–
White	7	10	1400	7000	15	–	8000 ... 12000
Voltage range 230 V AC							
Red	8	12	900	3100	55	620 ... 625	–
Green	8	12	3000	11500	55	515 ... 520	–
Yellow	8	12	500	3100	55	585 ... 590	–
Blue	7	11	800	5000	55	465 ... 470	–
White	7	11	1200	8200	55	–	8000 ... 12000
Voltage range 380 V AC							
Red	8	12	900	3100	15	620 ... 625	–
Green	8	12	3000	11500	15	515 ... 520	–
Yellow	8	12	1000	3400	15	585 ... 590	–
Blue	8	12	1500	5300	15	465 ... 470	–
White	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	–
White	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

Drilling plan



Modular Plastic range

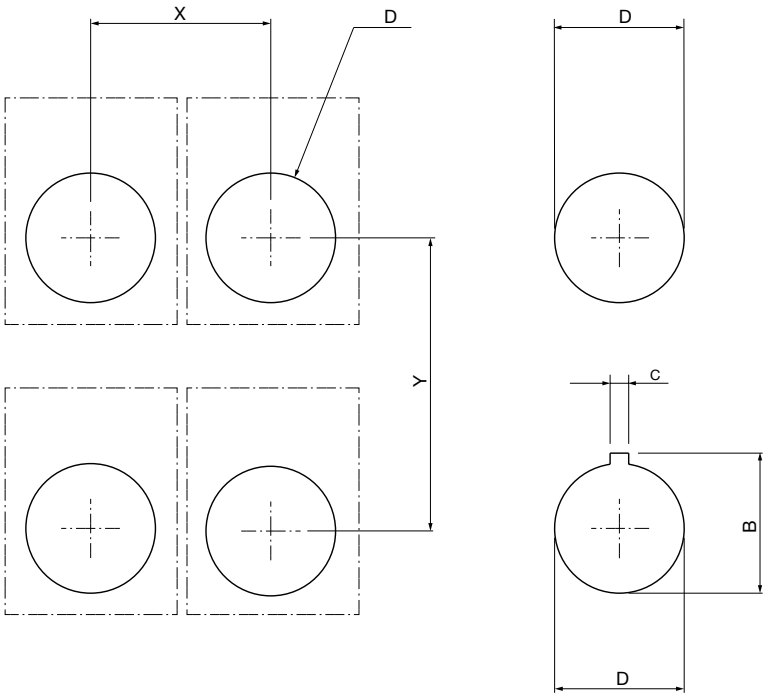
Panel thickness: 1.5-6 mm (0.06-0.24")

Description	X		Y		D	
	mm	inch	mm	inch	mm	inch
Pushbutton, pilot light, 2 and 3 position selector switch, potentiometer, toggle switch, 30 mm emergency stop, 30 mm machine stop, key-operated selector switch	31	1.22"	50	1.97"	ø 22.3 +0.4 0	0.88 +0.016 0
Pushbutton, pilot light, 2 and 3 position selector switch (with legend plate)	31	1.22"	55	2.17"	ø 22.3 +0.4 0	0.88 +0.016 0
Mushroom pushbutton, emergency stop, machine stop (40 mm)	45	1.77"	50	1.97"	ø 22.3 +0.4 0	0.88 +0.016 0
Mushroom pushbutton, emergency stop, machine stop (60 mm)	65	2.56"	70	2.76"	ø 22.3 +0.4 0	0.88 +0.016 0
Double pushbutton	31	1.22"	55	2.17"	ø 22.3 +0.4 0	0.88 +0.016 0
Double pushbutton (with legend plate)	31	1.22"	95	3.74"	ø 22.3 +0.4 0	0.88 +0.016 0
Heavy duty pushbutton*	50	1.97"	50	1.97"	ø 30.5 +0.50 0	1.22 +0.020 0
Potentiometer (with legend plate)	51	2.01"	50	1.97"	ø 22.3 +0.4 0	0.88 +0.016 0
Toggle switch (with legend plate)	31	1.22"	66	2.60"	ø 22.3 +0.4 0	0.88 +0.016 0
Joystick (with or without legend plate)	100	3.94"	100	3.94"	ø 22.3 +0.4 0	0.88 +0.016 0
5 position holder	51	2.01"	50	1.97"	ø 22.3 +0.4 0	0.88 +0.016 0
4 position selector switch	50	1.97"	45	1.77"	ø 22.3 +0.4 0	0.88 +0.016 0

*Panel thickness for heavy duty pushbutton is 2-5 mm (0.08-0.20"). Hole with key recess is not applicable for heavy duty pushbutton.

Modular plastic range

Drilling plan



Accessories	X	Y	D		B		C	Panel thickness
			Ø mm	inch	Ø mm	inch		
5 block holder	**51** 2.01"	**50** 1.97"	Ø **22.3** $^{+0.4}_{0}$	0.88" $^{+0.016}_{0}$	**24.1** $^{+0.4}_{0}$	0.95" $^{+0.016}_{0}$	**3.2** 0.13"	**1.5** 0.06" - **6** 0.24"
30 mm adapter	**42** 1.65"	**52** 2.05"	Ø **30.5** $^{+0.5}_{0}$	1.20" $^{+0.02}_{0}$	**33** $^{+0.5}_{0}$	1.30" $^{+0.02}_{0}$	**5** 0.20"	**2** 0.08" - **7** 0.28"

Pilot devices, 22 mm
Modular metal range

Ordering details

74 Non-illuminated pushbuttons
75 Non-illuminated marked pushbuttons
76 Illuminated pushbuttons
77 Non-illuminated mushroom pushbuttons
78 Illuminated mushroom pushbuttons
79 Emergency stops
80 Pilot lights
81 Selector switches - 2-position
83 Selector switches - 3-position
85 Selector switches - 4-position
86 Selector switches - 5-position
87 Key-operated selector switches
91 Joysticks
93 Toggle switches
94 Selector pushbuttons

Accessories

95 Holders and contact blocks
97 Power supplies
98 LED bulbs for power supplies
99 LED blocks
100 Other accessories

101 Technical data

103 Drilling plan

Modular metal range

Non-illuminated pushbuttons momentary



P9MPNRG
with holder



P9MPNGG



P9MPNBG



P9MPNNG



P9MPNRS



P9MPNVS



P9MPNLS



P9MPNNS

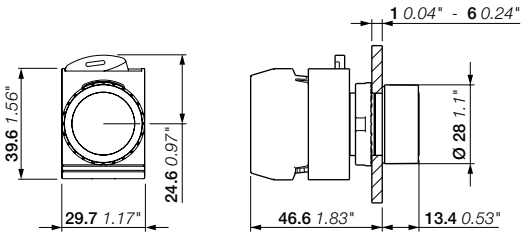


P9ACDPP

Description

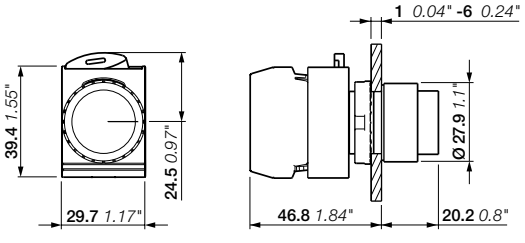
Each reference includes the satin chrome metal body and nut together with the holder.

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
Grey	P9MPNHG	1SFA184008R9007	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)

Modular metal range

Non-illuminated marked pushbuttons momentary



P9MPNLG037


P9MPNBG030



P9MPNBG028



P9MPNRG029



P9MPNNG029



P9MPNVG006

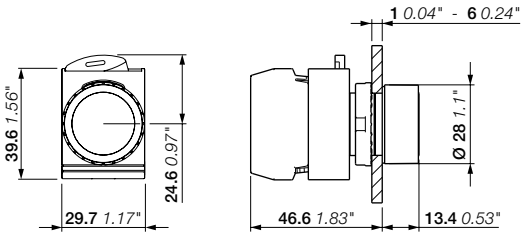


P9MPNRS029

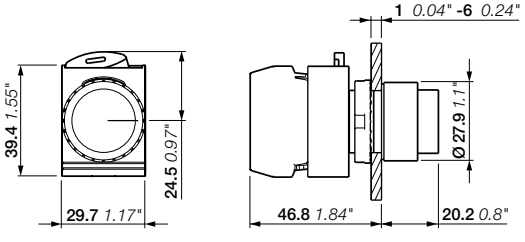
Description

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

Text/symbol	Color	Type	Order code	Pkg qty	Weight (1 pce) kg
Flush puttonbuttons					
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
⇥⇤	Black	P9MPNNG085	1SFA188886R9506	1	0.058
⟷	Blue	P9MPNLG007	1SFA188900R9504	1	0.058
	Black	P9MPNNG002	1SFA187139R9506	1	0.058
Extended pushbutton					
O	Red	P9MPNRS029	1SFA187210R9501	1	0.058
O	Black	P9MPNNS029	1SFA187250R9506	1	0.058
	Black	P9MPNNS032	1SFA187235R9506	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

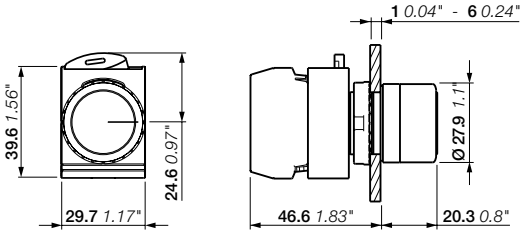


P9ACDPP

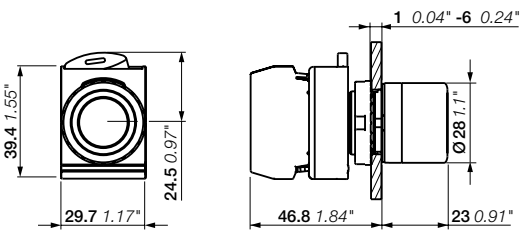
Description

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

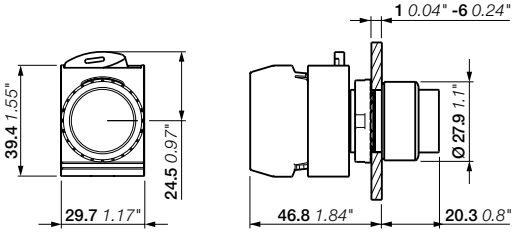
Operator	Type	Order code	Pkg qty	Weight (1 pce) kg
Flush pushbutton - Plastic lens type				
Red	P9MPLRGD	1SFA184491R9101	1	0.057
Green	P9MPLVGD	1SFA184492R9102	1	0.057
Yellow	P9MPLGGD	1SFA184493R9103	1	0.057
Blue	P9MPLLGD	1SFA184496R9104	1	0.057
White	P9MPLBGD	1SFA184497R9105	1	0.057
Orange	P9MPLAGD	1SFA184495R9109	1	0.057
Clear	P9MPLIGD	1SFA184498R9108	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



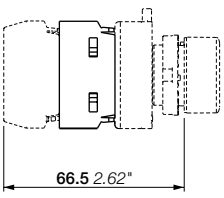
P9MPL..GD, P9MPL..GV



P9MPL..V



P9MPL..SD



P9ACDPP

Dimensions (mm, inches)

Modular metal range

Non-illuminated mushroom pushbuttons


1SFC151479V0001

P9MER3RN
with holder


1SFC151608V0001

P9MEM3GN


1SFC151600V0001

P9MEM4VN


1SFC151596V0001

P9MEM6GN


1SFC151595V0001

P9MEM6NN


1SFC151441V0001

P9MER4RN


1SFC151591V0001

P9MET4VN1


1SFC151592V0001

P9MET4NN1


1SFC151468V0001

P9MEC4RN01

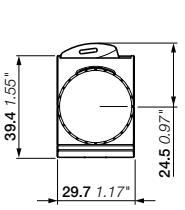

1SFC151467V0001

P9MEC4RN37

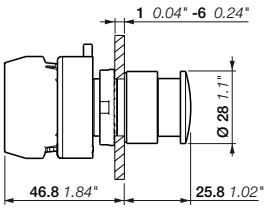
Description

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

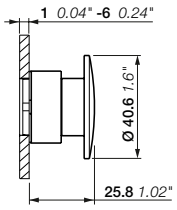
Color	Release method	Type	Order code	Pkg qty	Weight (1 pce) kg
Momentary					
Ø 28 mm					
Red	–	P9MEM3RN	1SFA184031R9001	1	0.060
Green	–	P9MEM3VN	1SFA184032R9002	1	0.060
Yellow	–	P9MEM3GN	1SFA184033R9003	1	0.060
Black	–	P9MEM3NN	1SFA184030R9006	1	0.060
Ø 40 mm					
Red	–	P9MEM4RN	1SFA184041R9001	1	0.061
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



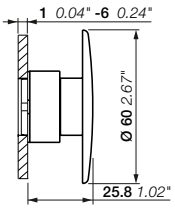
P9MEM..N, P9MER..N, P9MET..N



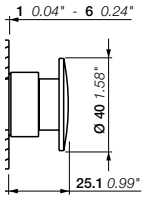
P9MEM3..N, P9MER3RN



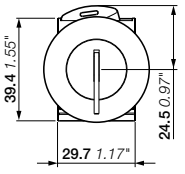
P9MEM4..N, P9MER4RN



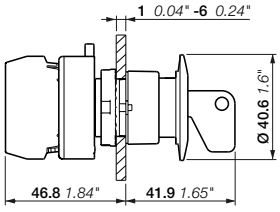
P9MEM6..N



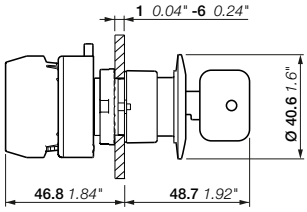
P9MET4..N



P9MEC4..N



P9MEC4RN01, P9MEC4RN95



P9MEC4RN37

Dimensions (mm, inches)

Modular metal range

Illuminated mushroom pushbuttons



P9MEM4RL



P9MEM4GL



P9MET4RL1

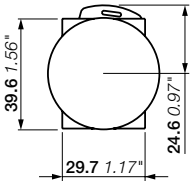


P9MET4LL1

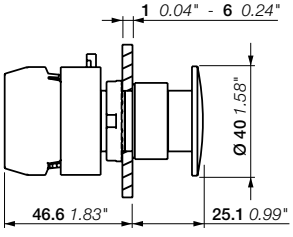
Description

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

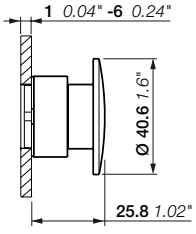
Color	Release method	Type	Order code	Pkg qty	Weight (1 pce) kg
Momentary					
Ø 40 mm					
Red	–	P9MEM4RL	1SFA184551R9101	1	0.062
Green	–	P9MEM4VL	1SFA184552R9102	1	0.062
Yellow	–	P9MEM4GL	1SFA184553R9103	1	0.062
Blue	–	P9MEM4LL	1SFA184556R9104	1	0.062
Maintained					
Ø 40 mm					
Red	Pull release	P9MET4RL1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

Non-illuminated emergency stop pushbutton



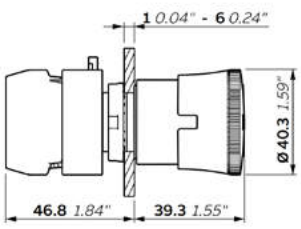
P9XER4RAW

Description

Each order code includes the satin chrome metal body and nut together with the holder. Product body is plastic.

Color	Release method	Type	Order code	Pkg qty	Weight (1 pce) kg
Ø 40 mm					
● Red	Twist release	P9XER4RAW	1SFA185078R9001	1	0.055
● Red	Twist release	P9XER4RAW-AA	1SFA205228R9001	200	0.055

5 position holder is not allowed
For technical data please refer to page 99
For more installation information, please see installation guide 1SFC151011M0201



P9XER4RAW

Dimensions (mm, inches)

Modular metal range

Pilot lights



P9MLBD
with holder



P9MLRD



P9MLVD



P9MLGD



P9MLLD



P9MLID

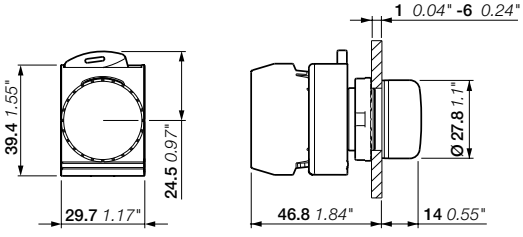


P9MLAD

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

Description

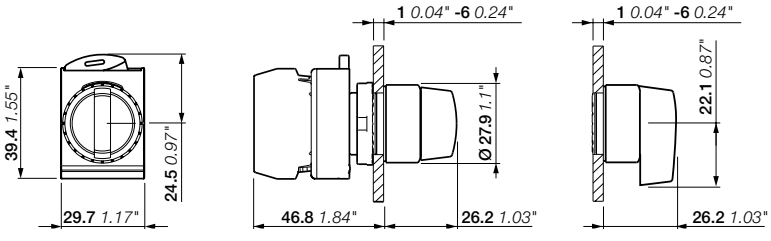
Each reference includes the satin chrome metal body and nut together with the holder.

Operating principle	Color	CAM function	Type	Order code	Pkg qty	Weight (1 pce) kg
Short handle						
B C	Yellow	I	P9MSMI0G	1SFA184123R9003	1	0.065
	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
	Green	I	P9MSMI5V	1SFA184152R9002	1	0.065
	Black	I	P9MSMI5N	1SFA184150R9006	1	0.065
A C	Red	D	P9MSMD5R	1SFA184141R9001	1	0.065
	Yellow	D	P9MSMD5G	1SFA184143R9003	1	0.065
	Black	D	P9MSMD5N	1SFA184140R9006	1	0.065
Long handle						
B C	Black	I	P9MSVI0N	1SFA184371R9006	1	0.068
A C	Yellow	D	P9MSVD0G	1SFA184822R9003		
	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

Electrical diagram

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	□ □ ■

Note: dot in this diagram = contact closed.
B10 = P9B10VN, P9B10FN contact blocks
B01 = P9B01VN, P9B01FN contact blocks
B11 = P9B11VN contact blocks



P9MSM, P9MSV

Dimensions (mm, inches)

Modular metal range

Illuminated selector switches - 2-position



P9MSLD0R



P9MSLD0G



P9MSLD0B



P9MSLD0A



P9MSAD0V

Description

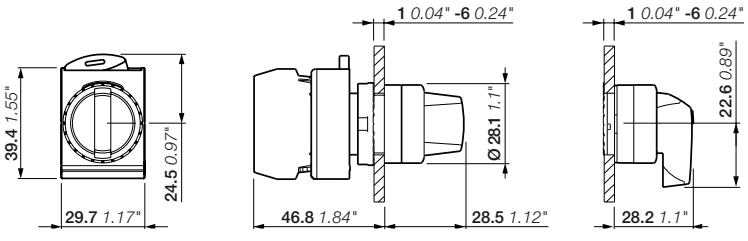
Each reference includes the satin chrome metal body and nut together with the holder.

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
	Clear	D	P9MSLD0I	1SFA184598R9108	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

Electrical diagram

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	□ □ ■

Note: dot in this diagram = contact closed.
B10 = P9B10VN, P9B10FN contact blocks
B01 = P9B01VN, P9B01FN contact blocks
B11 = P9B11VN contact blocks



P9MSL, P9MSA

Dimensions (mm, inches)

Modular metal range

Non-illuminated selector switches - 3-position



P9MSVZ0N
wit holder



P9MSMZ0R



P9MSMZ3N



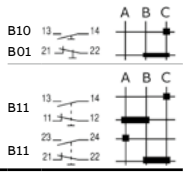
P9MSVZ5N

Description

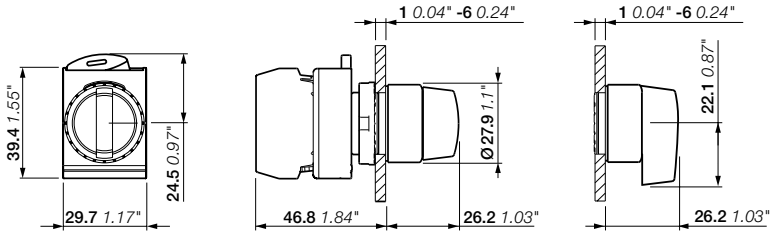
Each reference includes the satin chrome metal body and nut together with the holder.

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						
	● Red	Z	P9MSVZ0R	1SFA184856R9001	1	0.068
	● 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

Electrical diagram

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

Note: dot in this diagram = contact closed.
B10 = P9B10VN, P9B10FN contact blocks
B01 = P9B01VN, P9B01FN contact blocks
B11 = P9B11VN contact blocks



P9MSM, P9MSV

Dimensions (mm, inches)

Modular metal range

Illuminated selector switches - 3-position


1SFC151511V0001

P9MSLZ0R


1SFC151509V0001

P9MSLZ0G


1SFC151510V0001

P9MSLZ0B


1SFC151513V0001

P9MSLZ3V


1SFC151494V0001

P9MSAZ0V


1SFC151497V0001

P9MSAZ0B


1SFC151493V0001

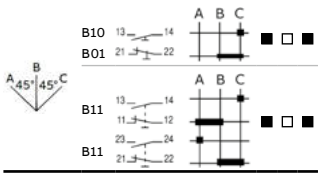
P9MSAZ3A

Description

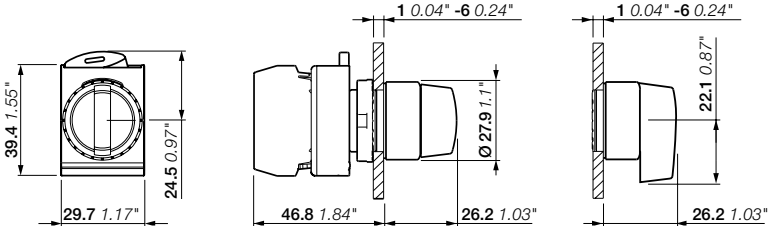
Each reference includes the satin chrome metal body and nut together with the holder.

Operating principle	Color	CAM function	Type	Order code	Pkg qty	Weight (1 pce) kg
Short handle						
	Red	Z	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
	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
	Clear	Z	P9MSLZ3I	1SFA184638R9108	1	0.065
	Red	Z	P9MSLZ5R	1SFA184621R9101	1	0.065
	Green	Z	P9MSLZ5V	1SFA184622R9102	1	0.065
	Blue	Z	P9MSLZ5L	1SFA184626R9104	1	0.065
	Clear	Z	P9MSLZ5I	1SFA184628R9108	1	0.065
	Red	Z	P9MSLZ1R	1SFA184611R9101	1	0.065
	Green	Z	P9MSLZ1V	1SFA184612R9102	1	0.065
	Yellow	Z	P9MSLZ1G	1SFA184613R9103	1	0.065
	Blue	Z	P9MSLZ1L	1SFA184616R9104	1	0.065
	White	Z	P9MSLZ1B	1SFA184617R9105	1	0.065
Long handle						
	Green	Z	P9MSAZ0V	1SFA184652R9102	1	0.068
	White	Z	P9MSAZ0B	1SFA184657R9105	1	0.068
	Green	Z	P9MSAZ3V	1SFA184682R9102	1	0.068
	White	Z	P9MSAZ3B	1SFA184687R9105	1	0.068
	Orange	Z	P9MSAZ3A	1SFA184685R9109	1	0.068

Electrical diagram

Positions	Contacts	Position on flange 2 3 1
CAM function Z		
	B10 13–14 21–22	■ □ ■
	B01 13–14 21–22	
	B11 13–14 11–12 23–24 21–22	■ □ ■

Note: dot in this diagram = contact closed.
B10 = P9B10VN, P9B10FN contact blocks
B01 = P9B01VN, P9B01FN contact blocks
B11 = P9B11VN contact blocks



P9MSL, P9MSA

Dimensions (mm, inches)

Modular metal range

Non-illuminated selector switches - 4-position



P9MSMX0N
with holder



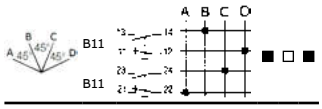
P9MSMX0N

Description

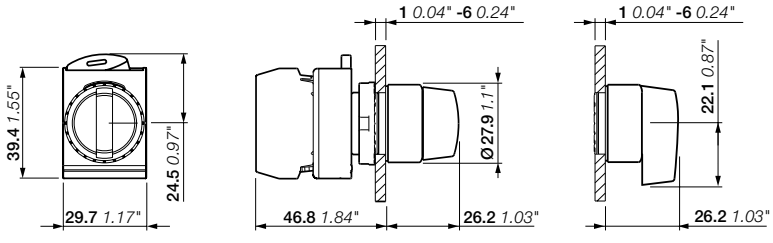
Each reference includes the satin chrome metal body and nut together with the holder.

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

Electrical diagram

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

Note: dot in this diagram = contact closed.
B10 = P9B10VN, P9B10FN contact blocks
B01 = P9B01VN, P9B01FN contact blocks
B11 = P9B11VN contact blocks



P9MSM, P9MSV

Dimensions (mm, inches)

Modular metal range

Non-illuminated selector switches - 5-position



1SFC151511V0001

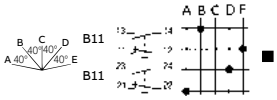
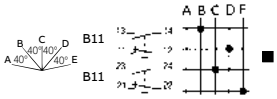
P9MSMYOR

Description

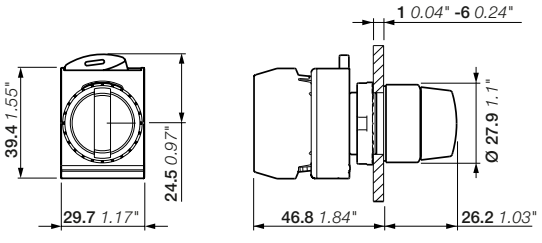
Each reference includes the satin chrome metal body and nut together with the holder.

Operating principle	Color	CAM function	Type	Order code	Pkg qty	Weight (1 pce) kg
Short handle						
	● Black	W	P9MSMW0N	1SFA184360R9006	1	0.065
	● Red	Y	P9MSMY0R	1SFA184351R9001	1	0.065
	● Black	Y	P9MSMY0N	1SFA184350R9006	1	0.065

Electrical diagram

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

Note: dot in this diagram = contact closed.
B10 = P9B10VN, P9B10FN contact blocks
B01 = P9B01VN, P9B01FN contact blocks
B11 = P9B11VN contact blocks



P9MSM

Dimensions (mm, inches)

Modular metal range

Key-operated selector switches - 2-position



P9MSCI0C37
with holder



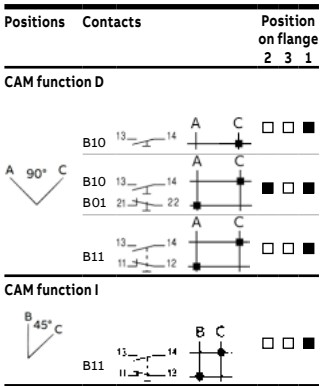
P9MSCI0C95

Description

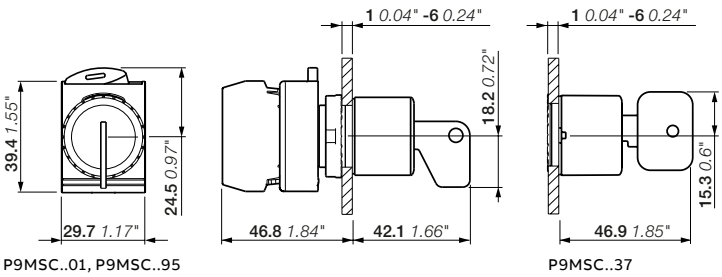
Each reference includes the satin chrome metal body and nut together with the holder, 2 keys included.

Operating principle	Key code	Key head color	CAM function	Type	Order code	Pkg qty	Weight (1 pce) kg
 Key can be removed in B only	37	Red/Metal	I	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
	33	Yellow	D	P9MSCD5A33	1SFA192250R9006	1	0.120

Electrical diagram



Note: dot in this diagram = contact closed.
B10 = P9B10VN, P9B10FN contact blocks
B01 = P9B01VN, P9B01FN contact blocks
B11 = P9B11VN contact blocks



P9MSC..01, P9MSC..95

P9MSC..37

Dimensions (mm, inches)

Modular metal range

Key-operated selector switches - 3-position



P9MSCZ0T37
with holder



P9MSCZ0T95

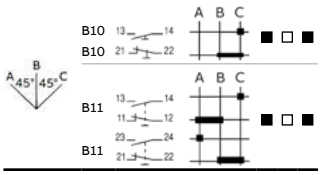
Description

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

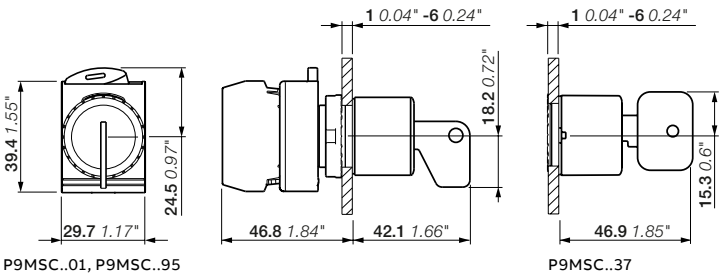
Operating principle	Key code	Key head color	CAM function	Type	Order code	Pkg qty	Weight (1 pce) kg
 Key can be removed in all positions	37	Red/Metal	Z	P9MSCZ0T37	1SFA192702R9006	1	0.120
	01	Metal	Z	P9MSCZ0T01	1SFA192690R9006	1	0.120
	95	Metal	Z	P9MSCZ0T95	1SFA184439R9006	1	0.120
Key can be removed in 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

Electrical diagram

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



Note: dot in this diagram = contact closed.
B10 = P9B10VN, P9B10FN contact blocks
B01 = P9B01VN, P9B01FN contact blocks
B11 = P9B11VN contact blocks



P9MSC..01, P9MSC..95 P9MSC..37

Dimensions (mm, inches)

Modular metal range

Key-operated selector switches - 3-position



P9MSCZ3C01
with holder

Description

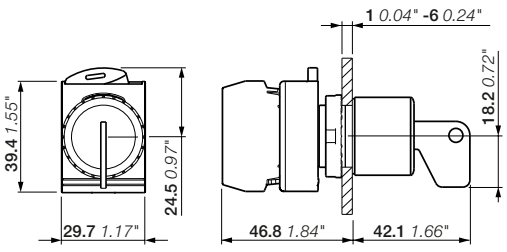
Each reference includes the satin chrome metal body and nut together with the holder, 2 keys included.

Operating principle	Key code	Key head color	CAM function	Type	Order code	Pkg qty	Weight (1 pce) kg
 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
 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
	95	Metal	Z	P9MSCZ5H95	1SFA184463R9006	1	0.120

Electrical diagram

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

Note: dot in this diagram = contact closed.
B10 = P9B10VN, P9B10FN contact blocks
B01 = P9B01VN, P9B01FN contact blocks
B11 = P9B11VN contact blocks



P9MSC..01, P9MSC..95

Dimensions (mm, inches)

Modular metal range

Key-operated selector switches - 4-position



1SFC151470V0001

P9MSCX0A95
with holder

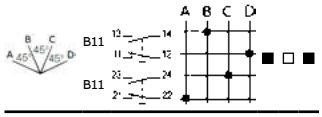
Description

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

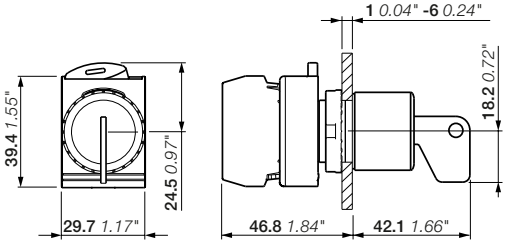
Operating principle	Key code	Key head color	CAM function	Type	Order code	Pkg qty	Weight (1 pce) kg
 Key can be removed in A position	95	Metal	X	P9MSCX0A95	1SFA184468R9006	1	0.120
Key can be removed in all positions	01	Metal	X	P9MSCX0Z01	1SFA193335R9006	1	0.120
	95	Metal	X	P9MSCX0Z95	1SFA184482R9006	1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

1SFC151516V0001

Electrical diagram

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

Note: dot in this diagram = contact closed.
B11 = P9B11VN contact blocks



P9MSC..01, P9MSC..95

Dimensions (mm, inches)

Modular metal range

Joysticks - 2-position and 4-position



P9MMN2A
with holder



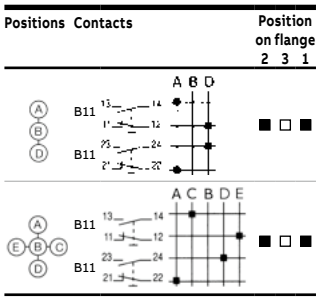
P9MMB2FG

Description

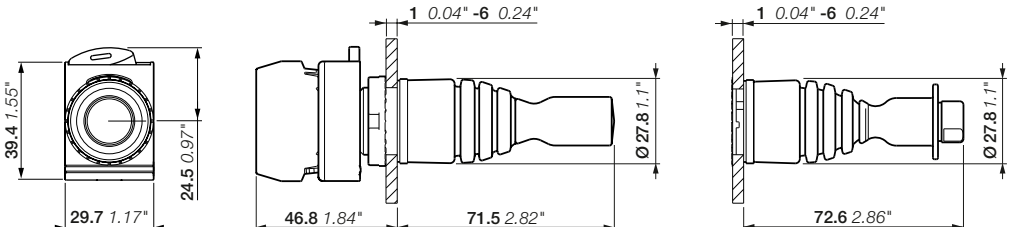
Each reference includes satin chrome metal body and nut together with holder. The latching function prevents unintended activation. Double-headed arrows indicate spring return function.

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
	Silicon/Grey	P9MMN2TG	1SFA620702R8207	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
	Rubber/Black	P9MMN4C	1SFA184722R9006	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
	Silicone/Grey	P9MMB2TG	1SFA620708R8207	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

Electrical diagram



Note: dot in this diagram = contact closed.
B11= P9B11VN contact blocks



P9MMN, P9MMB

Dimensions (mm, inches)

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	5	0.008
Rubber boot for joystick with latching	● Black	P9ARSCMB	1SFA188044R8000	5	0.008
Silicone boot for joystick without latching	● Grey	P9ARSGMN	1SFA187495R8000	5	0.008
Silicone boot for joystick with latching	● Grey	P9ARSGMB	1SFA187496R8000	5	0.008

Modular metal range

Toggle switches



P9MCB
with holder

Contacts actuated

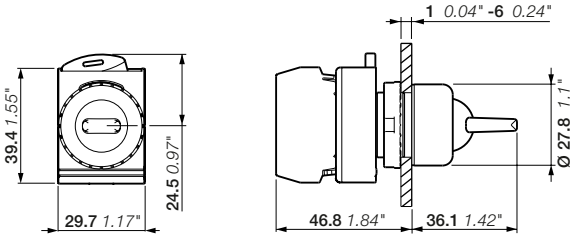
Positions	Contacts	Position on flange 2 3 1
CAM function D		
A / B	B11	□ □ ■
CAM function B		
A / B / C	B11	□ □ ■

B11 = P9B11VN contact blocks

Description

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

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

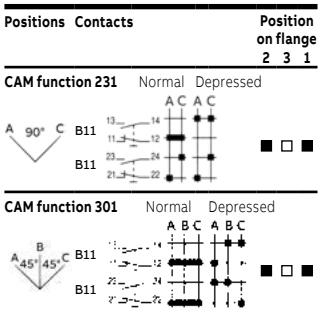
P9MPS22G
with holder

Description

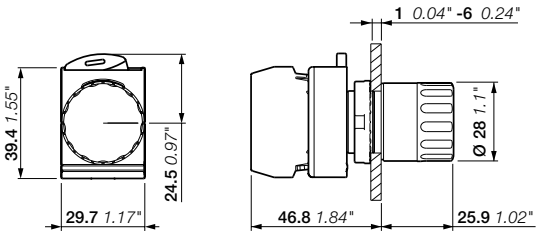
Each reference includes the satin chrome metal body and nut together with the holder.

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

Electrical diagram



Note: dot in this diagram = contact closed.
B11 = P9B11VN contact blocks



P9MPS

Dimensions (mm, inches)

Modular metal range

Holders and contact blocks for front mounting



P9ACFS3



P9ACFS5



P9B10VN



P9B20VN



P9B10VA



P9B10FN

Screw terminals

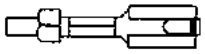
Description	Contacts	Type	Order code	Pkg qty	Weight (1 pce)
					kg
Holders					
3-position	- -	P9ACFS3	1SFA187841R8000	1	0.009
5-position	- -	P9ACFS5	1SFA187842R8000	1	0.016
Single contact blocks					
For 3 & 5-position holder	1 0	P9B10VN	1SFA187002R8001	1	0.009
	1 0	P9B10VN-AA	1SFA215832R8001	200	0.009
	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	200	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

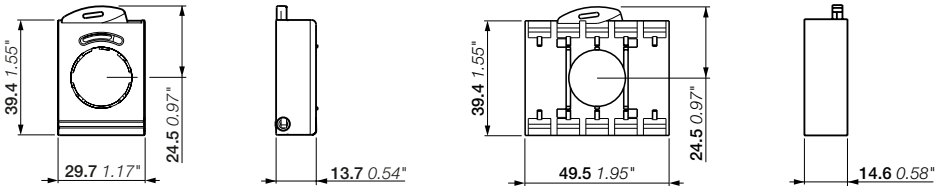
Single contact blocks (1)

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

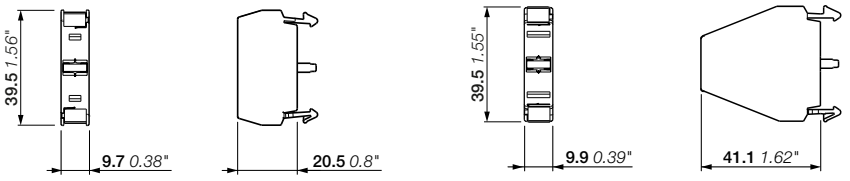
(1)



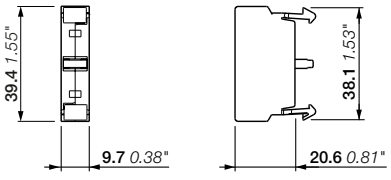
1x (6.35 x 0.8 mm)
2x (2.8 x 0.8 mm)



P9ACFS3 P9ACFS5



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



P9B10FN, P9B01FN

Dimensions (mm, inches)

Modular metal range

Holders and contact block configurations

Maximum number of electrical contacts

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

Modular metal range

Power supplies



P9PDNV0



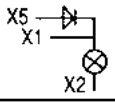
P9PDTV0

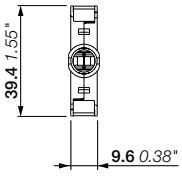


P9PDNF0

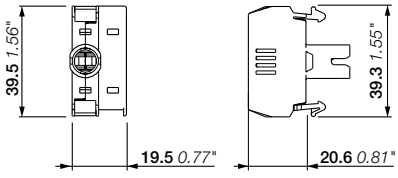
Description	Type	Order code	Pkg qty	Weight (1 pce) kg
Screw terminals				
Full voltage IEC: BA9S max 380 V - 2 W bulb not included UL - CSA: BA9S max 250 V - 2 W bulb not included	P9PDNV0	1SFA187020R1080	1	0.010
	P9PDNV0-AA	1SFA215831R1000	100	0.010
Test full voltage IEC: BA9S max 380 V - 2 W bulb not included UL - CSA: BA9S max 250 V - 2 W bulb not included	P9PDTV0	1SFA187027R8000	1	0.018
Note: P9PDTV0 are not included in UL listing.				
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

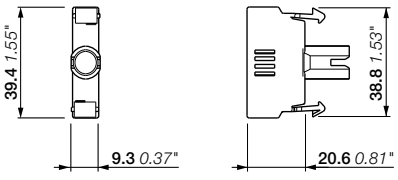
Power supplies	Position on flange 2 3 1
P9PDNV0 	□ ■ □
P9PDTV0 - P9PDNF0 	■ ■ □



P9PDNV0



P9PDTV0



P9PDNF0

Dimensions (mm, inches)

Modular metal range

LED bulbs for power supplies



BA9S6LEDB

Color	Type	Order code	Pkg qty	Weight (1 pce) kg
Rated voltage 6 V AC/DC				
Red	BA9S6LEDR	1SFA187163R1001	5	0.002
Green	BA9S6LEDV	1SFA187164R1002	5	0.002
Yellow	BA9S6LEDG	1SFA187161R1003	5	0.002
Blue	BA9S6LEDL	1SFA187162R1004	5	0.002
White	BA9S6LEDB	1SFA187160R1005	5	0.002
Rated voltage 12 V AC/DC				
Red	BA9S12LEDR	1SFA187168R1011	5	0.002
Green	BA9S12LEDV	1SFA187169R1012	5	0.002
Yellow	BA9S12LEDG	1SFA187166R1013	5	0.002
Blue	BA9S12LEDL	1SFA187167R1014	5	0.002
White	BA9S12LEDB	1SFA187165R1015	5	0.002
Rated voltage 24 V AC/DC				
Red	BA9S24LEDR	1SFA187173R1021	5	0.002
Green	BA9S24LEDV	1SFA187174R1022	5	0.002
Yellow	BA9S24LEDG	1SFA187171R1023	5	0.002
Blue	BA9S24LEDL	1SFA187172R1024	5	0.002
White	BA9S24LEDB	1SFA187170R1025	5	0.002
Rated voltage 48 V AC/DC				
Red	BA9S48LEDR	1SFA187178R1031	5	0.002
Green	BA9S48LEDV	1SFA187179R1032	5	0.002
Yellow	BA9S48LEDG	1SFA187176R1033	5	0.002
Blue	BA9S48LEDL	1SFA187177R1034	5	0.002
White	BA9S48LEDB	1SFA187175R1035	5	0.002
Rated voltage 60 V AC/DC				
White	BA9S60LED	1SFA187191R1045	5	0.002
Rated voltage 110 - 120 V AC/DC				
Red	BA9S110LEDR	1SFA187183R1041	5	0.002
Green	BA9S110LEDV	1SFA187184R1042	5	0.002
Yellow	BA9S110LEDG	1SFA187181R1043	5	0.002
Blue	BA9S110LEDL	1SFA187182R1044	5	0.002
White	BA9S110LEDB	1SFA187180R1045	5	0.002
Rated voltage 130 V AC/DC				
White	BA9S130LED	1SFA187190R1045	5	0.002
Rated voltage 230 V AC				
Red	BA9S230LEDR	1SFA187188R1051	5	0.002
Green	BA9S230LEDV	1SFA187189R1052	5	0.002
Yellow	BA9S230LEDG	1SFA187186R1053	5	0.002
Blue	BA9S230LEDL	1SFA187187R1054	5	0.002
White	BA9S230LEDB	1SFA187185R1055	5	0.002

Modular metal range

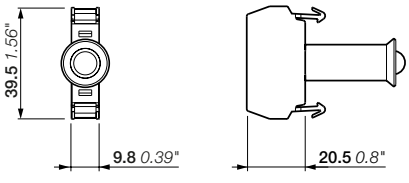
LED blocks for front mouting



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



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	5	0.006
Terminal adapter					
PCB adapter for faston contacts		P9ACA6	1SFA188804R8000	5	0.051


1SFC151460V0001

080CPR


1SFC151461V0001

080CPN

1SFC151465V0001

P9ARCST

Rubber protective caps (IP66) for standard pushbuttons

Flush pushbuttons

Description nutrilic rubber	Type	Order code	Pkg qty	Weight (1 pce) kg
● Red	080CPR	1SFA170191R8000	5	0.004
● Green	080CPV	1SFA170192R8000	5	0.004
● Black	080CPN	1SFA170190R8000	5	0.004
○ Clear	080CPT	1SFA170198R8000	5	0.004
Extended pushbuttons				
○ Clear	P9ARCST	1SFA187490R8000	5	0.004

Spare keys

Key code	Color	Suitable for[1]	Type	Order code	Pkg qty[2]	Weight (1 pce)[3] kg
01	Metal	P9MSCxxx01, P9MEC4RN01	P9ACC01	1SFA620920R2001	5	0.014
95	Metal	P9MSCxxx95, P9MEC4RN95	P9ACC95	1SFA620920R2095	5	0.014
33	Yellow	P9MSCD5A33	P9ACC33	1SFA620920R2033	5	0.022
37	Red	P9MSCxxx37, P9MEC4RN37	P9ACC37	1SFA620920R2037	5	0.022

1) xxx means that several different versions exist.
2) Package quantity is 5 pairs (= 10 keys).
3) 1 pce means 1 pair of keys (= 2 keys).

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, IP69K	-
For size 080SP1, 1M, 2, 2M, 3, 4, 4M or 6	IP66, IP69K	Type 1, 3, 3R, 3S, 4, 4X, 12, 13

Temperature

Ambient temperature during operation	-25 to +70 °C
Storage temperature	-40 to +85 °C
Humidity (operated relative humidity):	
General, excluding LED block and bulb	20 to 70%rh at 25 °C
LED block and bulb	40 to 70%rh at 25 °C

Connecting capacity

	Solid/stranded	1 x	0.75...2.5 mm²
		2 x	0.75...2.5 mm²
	Flexible	1 x	0.75...2.5 mm²
		2 x	0.75...2.5 mm²
	Flexible with	1 x	0.75...2.5 mm²
	non insulated ferrule	2 x	0.75...2.5 mm²
	Flexible with	1 x	0.75...2.5 mm²
	insulated ferrule	2 x	0.75...2.5 mm²
	Lugs	L <	7.0 mm
		l >	3.5 mm
Connection capacity acc. to UL / CSA		AWG 18...14	
Stripping length		10 mm	

Tightening torques

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

Modular metal range

Technical data

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	600 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
Rated frequency		50/60 Hz
Performances according to CSA and UL		
AC heavy duty	(A600)	
DC standard duty	(Q300)	
Number of electrical contacts		
Holder	Standard 3 positions	Optional 5 positions
Momentary pushbuttons Momentary mushroom pushbuttons	Max 6	Max 8
Standard selector switches Key selector switches	Max 4	Max 8
Joysticks Selector pushbuttons 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

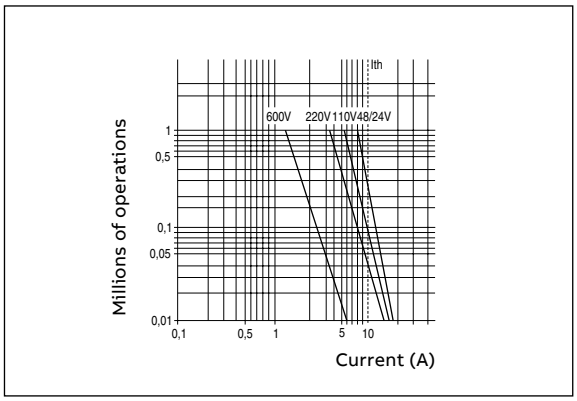
Mechanical endurance	
Joysticks Key pushbuttons Toggle switches Illuminated selector switches Maintained accessory	500 000 operations
Standard selector switches Key selector switches Illuminated pushbuttons Selector pushbuttons	1 million operations
Standard pushbuttons Mushroom head pushbuttons	3 million operations
Emergency stop	0.03 million

Performances of the contacts
• Slow acting • Self-cleaning sliding • NC forced breaking • Double movable bridge • Four switching points • Double break

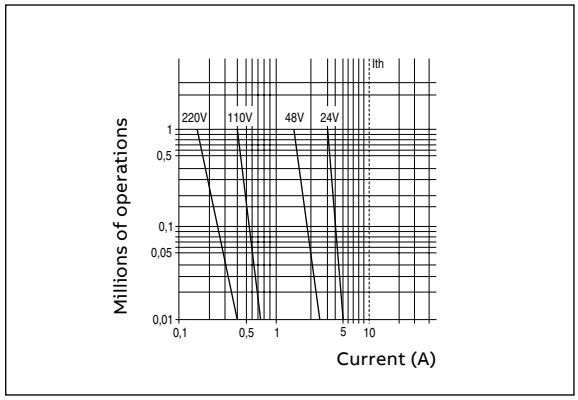
Identification of the terminals
According EN 50013

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 holder.
The standard operators are supplied with a three position holder 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 holder is not enough to satisfy the applications needs, the five position holder is required to add two more units of 10 mm mounted side by side.
Using the five position holder take into account the bigger width (50 mm instead of 30 mm).

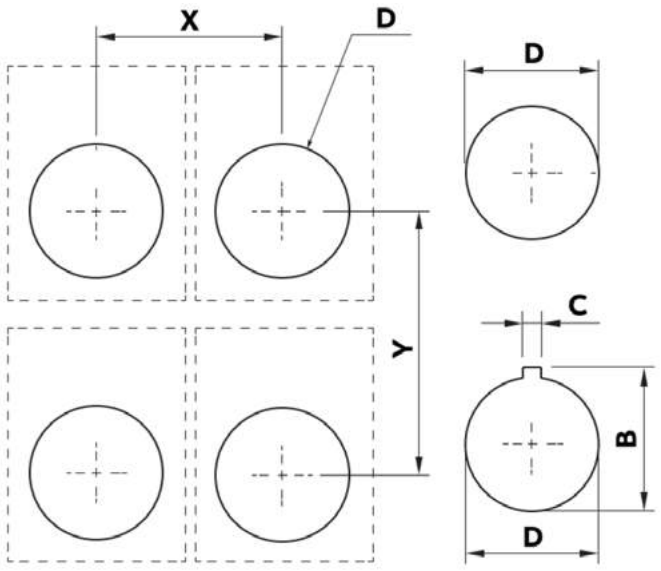
Modular metal range

Drilling plan

Modular Metal range

Panel thickness 1-6 mm (0.04-0.24")

Description	X		Y		D	
	mm	inch	mm	inch	ø mm	inch
Pilot light, pushbutton, selector switch, key operated selector switch, toggle switch, selector pushbutton, 28 mm mushroom pushbutton	30	1.18"	50	1.97"	ø $22.3^{+0.4}_{0}$	$0.88"^{+0.016}_{-0}$
40 mm mushroom pushbuttons, 40 mm emergency stop	45	1.77"	59	1.97"	ø $22.3^{+0.4}_{0}$	$0.88"^{+0.016}_{-0}$
Joystick	80	5.15"	80	5.15"	ø $22.3^{+0.4}_{0}$	$0.88"^{+0.016}_{-0}$
Holder with 5 position	50	1.97"	50	1.97"	ø $22.3^{+0.4}_{0}$	$0.88"^{+0.016}_{-0}$



Accessories	X	Y	D		B		C	Panel thickness
			ø mm	inch	ø mm	inch		
5 block holder	**51** 2.01"	**50** 1.97"	ø $22.3^{+0.4}_{0}$	$0.88"^{+0.016}_{-0}$	ø $24.1^{+0.4}_{0}$	$0.95"^{+0.016}_{-0}$	**3.2** 0.13"	**1.5** 0.06" - **6** 0.24"
30 mm adaptor	**42** 1.65"	**52** 2.05"	ø $30.5^{+0.5}_{0}$	$1.20"^{+0.02}_{-0}$	ø $33^{+0.5}_{0}$	$1.30"^{+0.02}_{-0}$	**5** 0.20"	**2** 0.08" - **7** 0.28"

[**mm** inch]

Pilot devices, 22 mm
Compact range

Ordering details

109 Non-illuminated flush pushbuttons
112 Non-illuminated extended pushbuttons
114 Illuminated flush pushbuttons
116 Illuminated extended pushbuttons
118 Mushroom pushbuttons
119 Emergency stop pushbuttons
120 Machine stop pushbuttons
121 Heavy duty pushbuttons
122 Pilot lights
125 LED bulbs for CL-100 pilot lights
126 Selector switches
128 Buzzers

129 Accessories

130 Technical data

139 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

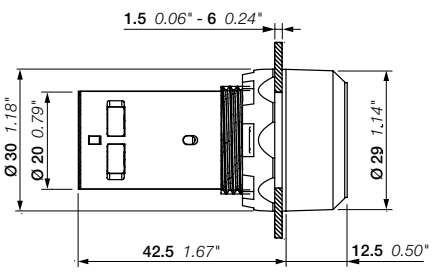

1SFC151175V0001

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 - Momentary



CP13-10-01



CP9-1009



CP11-10G-10



CP9-1019



CP9-1021



CP12-10W-10



CP9-1077



CP13-10B-11

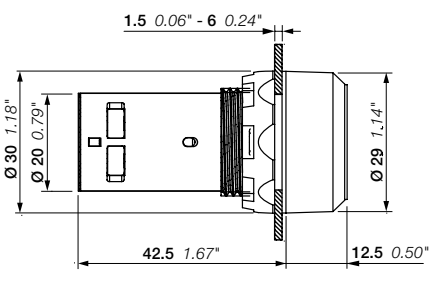


CP9-1016



CP13-10B-11

Operator	Bezel	Marking	Contacts	Type	Order code	Pkg qty	Weight (1 pce)
							kg
● Red	Black plastic	O	0 1	CP13-10R-01	1SFA619130R1041	10	0.018
		O	1 1	CP13-10R-11	1SFA619130R1071	10	0.022
		STOP	1 1	CP9-1009	1SFA619199R1009	10	0.022
		OFF	1 1	CP9-1033	1SFA619199R1033	10	0.022
● Green	Black plastic	I	1 0	CP11-10G-10	1SFA619110R1012	10	0.018
		I	1 1	CP11-10G-11	1SFA619110R1072	10	0.022
		START	1 1	CP9-1007	1SFA619199R1007	10	0.022
		START	2 0	CP9-1008	1SFA619199R1008	10	0.022
		ON	1 1	CP9-1034	1SFA619199R1034	10	0.022
		⬆	1 1	CP9-1019	1SFA619199R1019	10	0.022
● Blue	Black plastic	RESET	1 1	CP9-1021	1SFA619199R1021	10	0.022
○ White	Black plastic	I	1 0	CP11-10W-10	1SFA619110R1015	10	0.018
		I	1 1	CP11-10W-11	1SFA619110R1075	10	0.022
		II	1 0	CP12-10W-10	1SFA619120R1015	10	0.018
		II	1 1	CP12-10W-11	1SFA619120R1075	10	0.022
		⬆	1 0	CP9-1052	1SFA619199R1052	10	0.018
		⬆	2 0	CP9-1006	1SFA619199R1006	10	0.022
		⬆	1 1	CP9-1005	1SFA619199R1005	10	0.022
		⬅	1 1	CP9-1040	1SFA619199R1040	10	0.022
		🔔	1 0	CP9-1077	1SFA619199R1077	10	0.018
	Chrome metal	I	1 0	CP11-30W-10	1SFA619110R3015	10	0.018
● Black	Black plastic	O	1 1	CP13-10B-11	1SFA619130R1076	10	0.022
		⇨	1 1	CP9-1015	1SFA619199R1015	10	0.022
		⇨	2 0	CP9-1032	1SFA619199R1032	10	0.022
		⇧	1 1	CP9-1016	1SFA619199R1016	10	0.022
		⬇	1 0	CP9-1036	1SFA619199R1036	10	0.018
		⬇	1 1	CP9-1020	1SFA619199R1020	10	0.022
		➡	1 1	CP9-1041	1SFA619199R1041	10	0.022



CP2

Dimensions (mm, inches)

Compact range

Non-illuminated flush pushbuttons - Maintained


1SFC151176V0001

CP2-10R-10


1SFC151178V0001

CP2-10G-10


1SFC151184V0001

CP2-10Y-10


1SFC151183V0001

CP2-30L-10

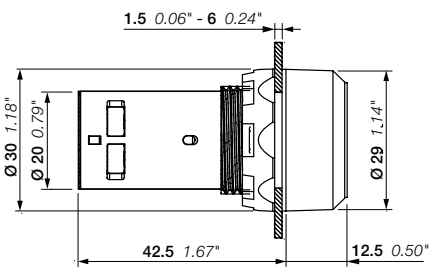

1SFC151174V0001

CP2-10W-10


1SFC151181V0001

CP2-30B-10

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



CP2

Dimensions (mm, inches)

Compact range

Non-illuminated extended pushbuttons - Momentary


1SFC151198V0001

CP3-10R-10


1SFC151204V0001

CP3-10G-10


1SFC151197V0001

CP3-30Y-10


1SFC151194V0001

CP3-10L-10


1SFC151203V0001

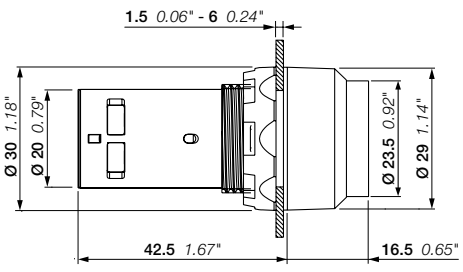
CP3-30W-10


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

Operator	Bezel	Marking	Contacts	Type	Order code	Pkg qty	Weight (1 pce) kg
Red	Black plastic	O	0 1	CP33-10R-01	1SFA619132R1041	10	0.019
		STOP	1 1	CP9-1018	1SFA619199R1018	10	0.019
Black	Black plastic	O	0 1	CP33-10B-01	1SFA619132R1046	10	0.019
			0 2	CP33-10B-02	1SFA619132R1056	10	0.019



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

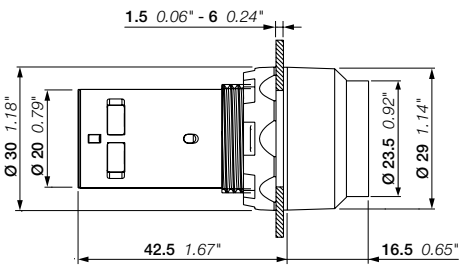

1SFC151202V0001

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)

Compact range

Illuminated flush pushbuttons - Momentary


1SFC151151V0001

CP1-11R-10


1SFC151188V0001

CP1-11G-10


1SFC151189V0001

CP1-31Y-10

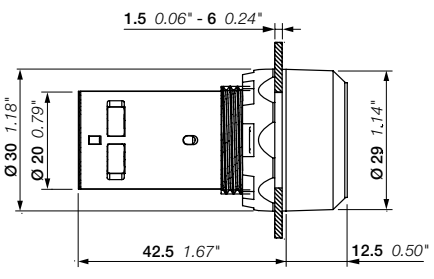

1SFC151149V0001

CP1-11L-10


1SFC151175V0001

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 230 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

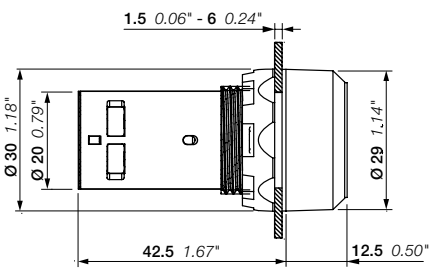
CP1-11L-10



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 230 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

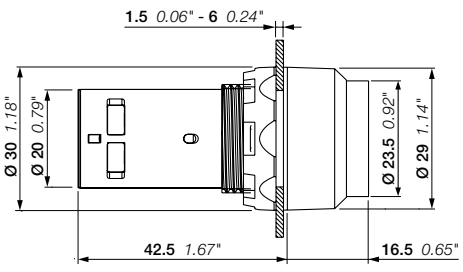
CP3-11G-10



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 230 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

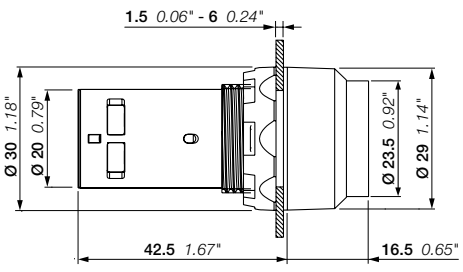
CP4-11G-10



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 230 V AC / DC						
Red	Black plastic	1 0	CP4-13R-10	1SFA619103R1311	10	0.025
		0 1	CP4-13R-01	1SFA619103R1341	10	0.025
Green	Black plastic	1 0	CP4-13G-10	1SFA619103R1312	10	0.025
Yellow	Black plastic	1 0	CP4-13Y-10	1SFA619103R1313	10	0.025
Blue	Black plastic	1 0	CP4-13L-10	1SFA619103R1314	10	0.025
Clear	Black plastic	1 0	CP4-13C-10	1SFA619103R1318	10	0.025



CP4

Dimensions (mm, inches)

Compact range

Non-illuminated mushroom pushbuttons - Momentary



CPM3-10R-11



CPM3-10G-11



CPM3-10Y-11

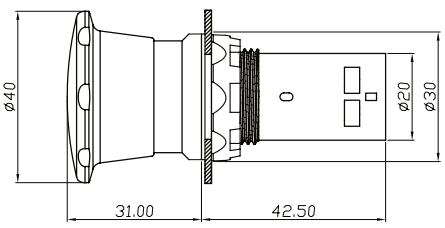


CPM3-10L-11



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)

Compact range

Non-illuminated emergency stop pushbuttons



CE3T-10R-01



CE3K1-10R-01



CE4T-10R-01



CE4P-10R-01



CE4K1-10R-02



CE9-1010



CE9-1012

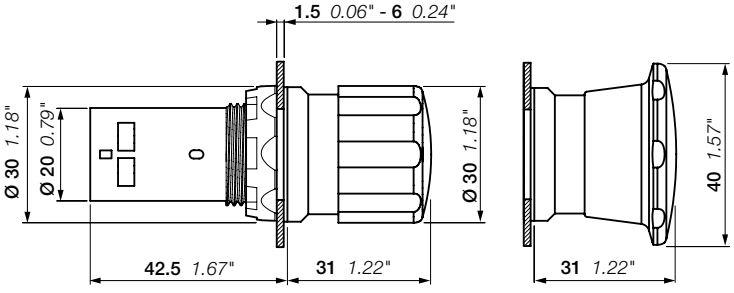
Description

The emergency stop pushbuttons without symbol 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.

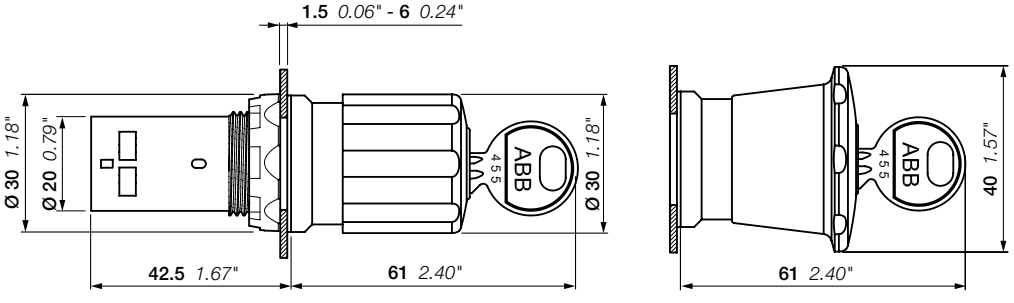
Operator	Release method	Contacts	Type	Order code	Pkg qty	Weight (1 pce) kg
Ø 30 mm						
● Red	Twist release	0 1	CE3T-10R-01	1SFA619500R1041	1	0.032
		1 1	CE3T-10R-11	1SFA619500R1071	1	0.032
		0 2	CE3T-10R-02	1SFA619500R1051	1	0.032
● Red	Pull release	0 1	CE3P-10R-01	1SFA619501R1041	1	0.032
				1SFA619501H1041	100	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
				1SFA619551H1041	100	0.036
		1 1	CE4P-10R-11	1SFA619551R1071	1	0.036
		0 2	CE4P-10R-02	1SFA619551R1051	1	0.036
				1SFA619551H1051	100	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

Ø 40 mm

Operator	Marking	Release method	Contacts	Type	Order code	Pkg qty	Weight (1 pce) kg
● Red	EMO	Twist release	0 2	CE9-1010	1SFA619599R1010	1	0.036
● Red	EMO	Twist release	1 1	CE9-1011	1SFA619599R1011	1	0.036
● Red	PUSH TO STOP PULL TO RUN	Pull release	0 2	CE9-1012	1SFA619599R1012	1	0.036



CE3P, CE3T CE4P, CE4T



CE3K CE4K Dimensions (mm, inches)

Compact range

Non-illuminated machine stop pushbuttons



CE3T-10B-11



CE3P-10B-11

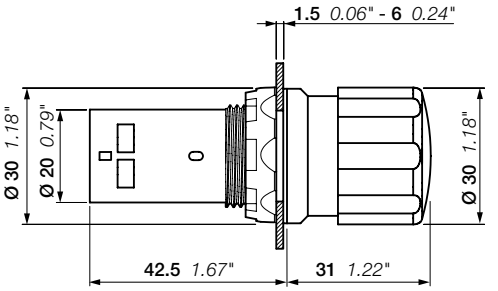


CE4T-10B-11

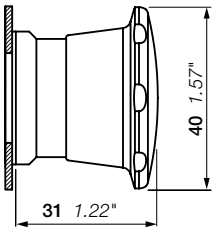


CE4P-10B-11

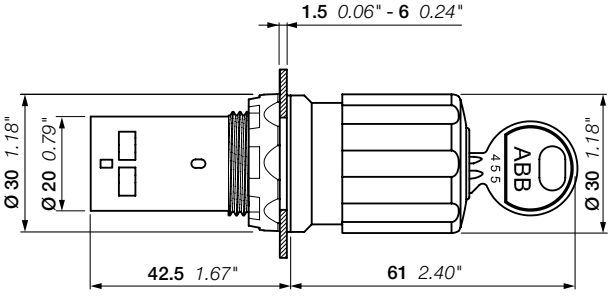
Operator	Release method	Contacts	Type	Order code	Pkg qty	Weight (1 pce)
						kg
Ø 30 mm						
● Black	Twist release	0 1	CE3T-10B-01	1SFA619500R1046	1	0.032
		1 1	CE3T-10B-11	1SFA619500R1076	1	0.032
● Black	Pull release	1 1	CE3P-10B-11	1SFA619501R1076	1	0.032
● Black	Key code 455	1 1	CE3K1-10B-11	1SFA619502R1076	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



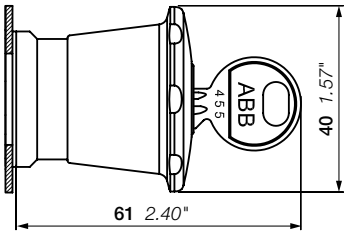
CE3P, CE3T



CE4P, CE4T



CE3K



CE4K

Dimensions (mm, inches)

Compact range

Heavy duty pushbuttons



1SFC151025V0001

CP6-10R-11



1SFC151024V0001

CP6-10G-11



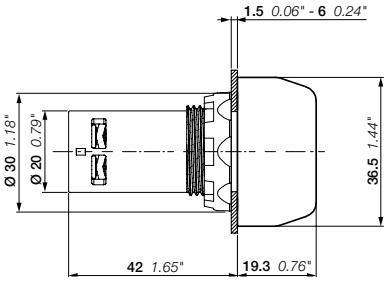
1SFC151023V0001

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


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	Wavelength	Type	Order code	Pkg qty	Weight (1 pce)
	mA	Vpeak	nm				kg
Voltage 6.3 V							
Red	16	2	625	CL2-506R	1SFA619403R5061	10	0.016
Green	16	2	520	CL2-506G	1SFA619403R5062	10	0.016
Yellow	16	2	590	CL2-506Y	1SFA619403R5063	10	0.016
Blue	16	2	470	CL2-506L	1SFA619403R5064	10	0.016
Clear	16	2	(1)	CL2-506C	1SFA619403R5068	10	0.016
Voltage 12 V DC							
Red	16	2	625	CL2-501R	1SFA619403R5011	10	0.016
Green	16	2.5	520	CL2-501G	1SFA619403R5012	10	0.016
Yellow	16	2.5	590	CL2-501Y	1SFA619403R5013	10	0.016
Blue	16	2.5	470	CL2-501L	1SFA619403R5014	10	0.016
Clear	16	2.5	(1)	CL2-501C	1SFA619403R5018	10	0.016
Voltage 24 V AC / DC							
Red	16	6	625	CL2-502R	1SFA619403R5021	10	0.016
					1SFA619403H5021	100	0.016
Green	16	6	520	CL2-502G	1SFA619403R5022	10	0.016
					1SFA619403H5022	100	0.016
Yellow	16	6	590	CL2-502Y	1SFA619403R5023	10	0.016
					1SFA619403H5023	100	0.016
Blue	16	6	470	CL2-502L	1SFA619403R5024	10	0.016
Clear	16	6	(1)	CL2-502C	1SFA619403R5028	10	0.016
Voltage 48 ... 60 V AC / DC							
Red	13-17	7	625	CL2-507R	1SFA619403R5071	10	0.016
					1SFA619403H5071	100	0.016
Green	13-17	7	520	CL2-507G	1SFA619403R5072	10	0.016
					1SFA619403H5072	100	0.016
Yellow	13-17	7	590	CL2-507Y	1SFA619403R5073	10	0.016
Blue	13-17	7	470	CL2-507L	1SFA619403R5074	10	0.016
Clear	13-17	7	(1)	CL2-507C	1SFA619403R5078	10	0.016
Voltage 110 ... 130 V AC							
Red	15-17	20	625	CL2-513R	1SFA619403R5131	10	0.016
Green	15-17	20	520	CL2-513G	1SFA619403R5132	10	0.016
Yellow	15-17	20	590	CL2-513Y	1SFA619403R5133	10	0.016
Blue	15-17	20	470	CL2-513L	1SFA619403R5134	10	0.016
Clear	15-17	20	(1)	CL2-513C	1SFA619403R5138	10	0.016
Voltage 110 ... 130 V DC							
Red	8-9	20	625	CL2-515R	1SFA619403R5151	10	0.016
					1SFA619403H5151	100	0.016
Green	8-9	20	520	CL2-515G	1SFA619403R5152	10	0.016
					1SFA619403H5152	100	0.016
Yellow	8-9	20	590	CL2-515Y	1SFA619403R5153	10	0.016
Blue	8-9	20	470	CL2-515L	1SFA619403R5154	10	0.016
Clear	8-9	20	(1)	CL2-515C	1SFA619403R5158	10	0.016

(1) X = 0.31, Y = 0.32

Compact range
Pilot lights


1SFC151338V0001
CL2-502R


1SFC151339V0001
CL2-506G


1SFC151340V0001
CL2-508Y

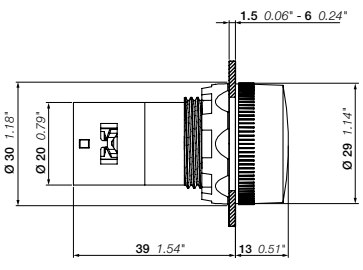

1SFC151341V0001
CL2-506L


1SFC151342V0001
CL2-506C

Description
Integrated LED, no bulb needed.

Color	Rated current	Anti-inductive voltage	Wavelength	Type	Order code	Pkg qty	Weight (1 pce)
	mA	Vpeak	nm				kg
Voltage 220 V DC							
Red	6	20	625	CL2-520R	1SFA619403R5201	10	0.016
					1SFA619403H5201	100	0.016
Green	6	20	520	CL2-520G	1SFA619403R5202	10	0.016
					1SFA619403H5202	100	0.016
Yellow	6	20	590	CL2-520Y	1SFA619403R5203	10	0.016
Blue	6	20	470	CL2-520L	1SFA619403R5204	10	0.016
Clear	6	20	(1)	CL2-520C	1SFA619403R5208	10	0.016
Voltage 230 V AC							
Red	17	30	625	CL2-523R	1SFA619403R5231	10	0.016
					1SFA619403H5231	100	0.016
Green	17	35	520	CL2-523G	1SFA619403R5232	10	0.016
					1SFA619403H5232	100	0.016
Yellow	17	35	590	CL2-523Y	1SFA619403R5233	10	0.016
					1SFA619403H5233	100	0.016
Blue	17	35	470	CL2-523L	1SFA619403R5234	10	0.016
Clear	17	35	(1)	CL2-523C	1SFA619403R5238	10	0.016
					1SFA619403H5238	100	0.016
Rated voltage 230 V AC high anti-inductive voltage (2)							
Red	17	60	625	CL2-623R	1SFA619403R6231	10	0.016
Green	17	80	520	CL2-623G	1SFA619403R6232	10	0.016
Yellow	17	70	590	CL2-623Y	1SFA619403R6233	10	0.016
Blue	17	80	470	CL2-623L	1SFA619403R6234	10	0.016
Clear	17	80	(1)	CL2-623C	1SFA619403R6238	10	0.016
Rated voltage 380 ... 415 V AC							
Red	15-17	55	625	CL2-542R	1SFA619403R5421	10	0.016
Green	15-17	65	520	CL2-542G	1SFA619403R5422	10	0.016
Yellow	15-17	65	590	CL2-542Y	1SFA619403R5423	10	0.016
Blue	15-17	65	470	CL2-542L	1SFA619403R5424	10	0.016
Clear	15-17	65	(1)	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

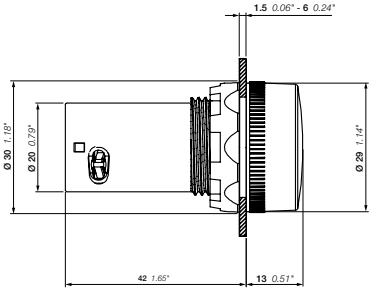
Description

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

Text cap for pilot light

Color	Marking	Type	Order code	Pkg qty	Weight (1 pce) kg
White	Without text	KTC3-9000	1SFA616903R9000	10	0.001
	ON	KTC3-1020	1SFA616903R1020	10	0.001
	OFF	KTC3-1019	1SFA616903R1019	10	0.001



CL100

Dimensions (mm, inches)

Accessories for compact range

LED bulbs for CL-100 pilot lights



BA9S6LEDB

Color	Type	Order code	Pkg qty	Weight (1 pce) kg
Rated voltage 6 V AC/DC				
Red	BA9S6LEDR	1SFA187163R1001	5	0.002
Green	BA9S6LEDV	1SFA187164R1002	5	0.002
Yellow	BA9S6LEDG	1SFA187161R1003	5	0.002
Blue	BA9S6LEDL	1SFA187162R1004	5	0.002
White	BA9S6LEDB	1SFA187160R1005	5	0.002
Rated voltage 12 V AC/DC				
Red	BA9S12LEDR	1SFA187168R1011	5	0.002
Green	BA9S12LEDV	1SFA187169R1012	5	0.002
Yellow	BA9S12LEDG	1SFA187166R1013	5	0.002
Blue	BA9S12LEDL	1SFA187167R1014	5	0.002
White	BA9S12LEDB	1SFA187165R1015	5	0.002
Rated voltage 24 V AC/DC				
Red	BA9S24LEDR	1SFA187173R1021	5	0.002
Green	BA9S24LEDV	1SFA187174R1022	5	0.002
Yellow	BA9S24LEDG	1SFA187171R1023	5	0.002
Blue	BA9S24LEDL	1SFA187172R1024	5	0.002
White	BA9S24LEDB	1SFA187170R1025	5	0.002
Rated voltage 48 V AC/DC				
Red	BA9S48LEDR	1SFA187178R1031	5	0.002
Green	BA9S48LEDV	1SFA187179R1032	5	0.002
Yellow	BA9S48LEDG	1SFA187176R1033	5	0.002
Blue	BA9S48LEDL	1SFA187177R1034	5	0.002
White	BA9S48LEDB	1SFA187175R1035	5	0.002
Rated voltage 60 V AC/DC				
White	BA9S60LED	1SFA187191R1045	5	0.002
Rated voltage 110 - 120 V AC/DC				
Red	BA9S110LEDR	1SFA187183R1041	5	0.002
Green	BA9S110LEDV	1SFA187184R1042	5	0.002
Yellow	BA9S110LEDG	1SFA187181R1043	5	0.002
Blue	BA9S110LEDL	1SFA187182R1044	5	0.002
White	BA9S110LEDB	1SFA187180R1045	5	0.002
Rated voltage 130 V AC/DC				
White	BA9S130LED	1SFA187190R1045	5	0.002
Rated voltage 230 V AC				
Red	BA9S230LEDR	1SFA187188R1051	5	0.002
Green	BA9S230LEDV	1SFA187189R1052	5	0.002
Yellow	BA9S230LEDG	1SFA187186R1053	5	0.002
Blue	BA9S230LEDL	1SFA187187R1054	5	0.002
White	BA9S230LEDB	1SFA187185R1055	5	0.002

Compact range

Non-illuminated selector switches - 2-position



C2SS1-10B-10



C2SS3-30B-10

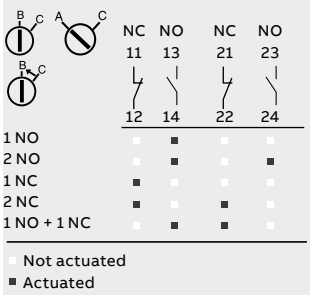
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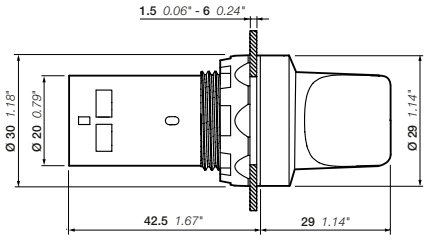
Compact selector switches are delivered in black color.

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

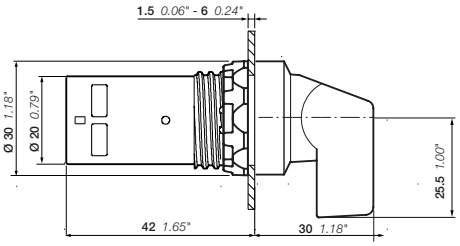
Contacts actuated

2-position selector switch. Contacts included, actuated in position C:





C2SS, short handle



C2SS, long handle

Dimensions (mm, inches)

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.

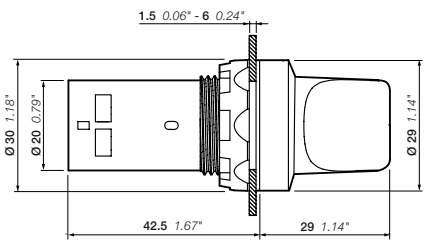
Operating principle	Bezel	Contacts	Type	Order code	Pkg qty	Weight (1 pce)
						kg
Short handle						
	Black plastic	1 1	C3SS1-10B-11	1SFA619210R1076	10	0.024
		2 0	C3SS1-10B-20	1SFA619210R1026	10	0.024
	Chrome metal	1 1	C3SS1-30B-11	1SFA619210R3076	10	0.032
		2 0	C3SS1-30B-20	1SFA619210R3026	10	0.032
	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	2 0	C3SS5-30B-20	1SFA619214R3026	10	0.032

Contacts actuated

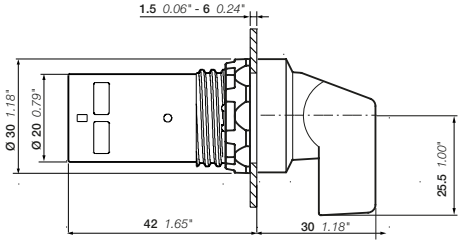
3-position selector switch. Contacts included, actuated in position A and C:

	A		C	
	NC 21	NO 23	NC 11	NO 13
	22	24	12	14
2 NO	▫	■	▫	■
2 NC	■	▫	■	▫
1 NO + 1 NC	■	▫	▫	■

▫ Not actuated
■ Actuated



C3SS, short handle



C3SS, long handle

Dimensions (mm, inches)

Compact range
Buzzers


1SFC151157V0001

CB1-600G


1SFC151159V0001

CB1-610R


1SFC151158V0001

CB1-610Y

Illuminated

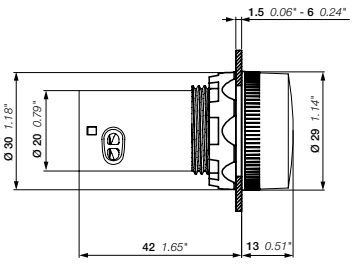
Color	Light and sound output	Rated current	Luminance	Type	Order code	Pkg qty	Weight (1 pce)
		mA	mcd				kg
Rated voltage 24 V AC / DC							
Green	Continuous	48	126	CB1-600G	1SFA619600R6002	10	0.021
Red	Pulsation	53	60	CB1-610R	1SFA619600R6101	10	0.021
					1SFA619600H6101	100	0.021
Yellow	Pulsation	53	60	CB1-610Y	1SFA619600R6103	10	0.021
					1SFA619600H6103	100	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
					1SFA619600H6131	100	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
					1SFA619600H6306	100	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


1SFC151253F0001
KA1


KA1-8073


CA1-8075

1SFC151397V0001
MA1-8052


1SFC151379F0001
KA1-8010


1SFC151212V0001
KA1-8022/KA1-8021


1SFC151487F0001
SK616016-2

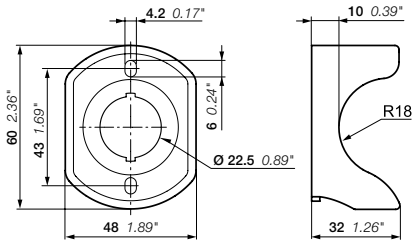

1SFC151391V0001
MA1-8153


1SFC151287V0001
CA1-8054


1SFC151286V0001
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)					
Pushbuttons, selector switches, pilot light, emergency stop pushbuttons	Black plastic	KA1-8029	1SFA616920R8029	1	0.010
	Chrome metal	KA1-8030	1SFA616920R8030	1	0.035
Flush mounted pushbuttons	Chrome metal	KA1-8073	1SFA616920R8073	1	0.050
Flush mounted selector switches	Chrome metal	CA1-8075	1SFA619920R8075	1	0.050
Protective membrane, silicone					
Flush pushbutton		MA1-8052	1SFA611920R8052	10	0.002
Extended pushbutton		MA1-8002	1SFA611920R8002	10	0.002
Protective ring To prevent accidental operation. Cannot be used together with Legend plate holder					
Flush and extended pushbuttons	Clear plastic	-	SK615512-1	10	0.002
Flush pushbuttons	Metal and black plastic	KA1-8010	1SFA616920R8010	10	0.008
Bezel					
Pushbuttons	Black plastic	KA1-8022	1SFA616920R8022	10	0.002
	Chrome plastic	KA1-8020	1SFA616920R8020	10	0.002
	Chrome metal	KA1-8021	1SFA616920R8021	10	0.015
Selector switches	Black plastic	CA1-8077	1SFA619920R8077	10	0.002
	Chrome metal	CA1-8078	1SFA619920R8078	10	0.010
Square bezel					
Black plastic		-	SK616016-2	10	0.001
Lockable shroud					
Pushbuttons, selector switches	Plastic	MA1-8153	1SFA611920R8153	10	0.023
Emergency stop 30 mm	Metal	-	SK615502-D	1	0.080
Touch guard					
Touch guard		MA1-8152	1SFA611920R8152	10	0.023
Shroud with anti rotation tabs, slot for water drainage					
Emergency stop, machine stop 40 mm	Yellow	CA1-8053	1SFA619920R8053	10	0.016
	Grey	CA1-8054	1SFA619920R8054	10	0.016
Lamp changing tool					
Lamp changing tool		KA1-8072	1SFA616920R8072	1	0.002

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



CA1

Dimensions (mm, inches)

Compact range
Accessories



CA1-8080



MA1-8015



MA1-8149



MA1-8019

Description	Material	Suitable for	Type	Order code	Pkg qty	Weight (1pcs) kg
DIN-rail adapter						
DIN-rail adapter with 2 dummy block			CA1-8080	1SFA619920R8080	1	0.028
Mounting tools For tightening the locking nut						
Plastic / Mounting tool manual			MA1-8015	1SFA611920R8015	1	0.021
Metal / Mounting tool for power tool			MA1-8149	1SFA611920R8149	1	0.155
Extra key						
Key code 455	Metal	CE3K1, CE4K1	MA1-8165	1SFA611920R8165	5[1]	0.011[2]
Locking nut						
Locking nut			MA1-8019	1SFA611920R8019	10	0.001
Gasket						
Gasket			MA1-8151	1SFA611920H8151	100	0.001

1) Package quantity is 5 pairs (= 10 keys).
2) 1 pcs means 1 pair of keys (= 2 keys).

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 and humidity	
Ambient temperature during operation[1]	-25 to +70 °C
Storage temperature	-40 to +85 °C
Humidity (operated relative humidity):	
General, excluding LED product (pilot lights, bulb, buzzer, illuminated pushbuttons)	20 to 70%rh at 25 °C
LED product (pilot lights, bulb, buzzer, illuminated pushbuttons)	40 to 70%rh at 25 °C

1) Ambient temperature during operation for CL2 pilot light and CEP plastic enclosure is -30 to +70 °C

Compact range

Technical data

Technical data

Connecting capacity

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

	1x	0.5...1.5 mm²
	2x	0.5...1.5 mm²
	1x	0.5...1.5 mm²
	2x	0.5...1.5 mm²
	1x	0.5...1.5 mm²
	2x	0.5...1.5 mm²
	1x	0.5...1.5 mm²
	2x	0.5...1.5 mm²
	L < I >	5.9 mm 3.0 mm
Stripping length		6.0 mm

Compact range M3.5 (Pilot light)

	1x	0.75...2.5 mm²
	2x	0.75...2.5 mm²
	1x	0.75...2.5 mm²
	2x	0.75...2.5 mm²
	1x	0.75...2.5 mm²
	2x	0.75...2.5 mm²
	1x	0.75...2.5 mm²
	2x	0.75...2.5 mm²
	L < I >	7.0 mm 3.5 mm
Stripping length		8.0 mm

Tightening torque

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

Short circuit protection

Max. fuse at 1 kA	gG 10A

Mechanical life

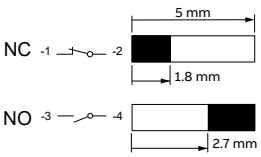
Pushbuttons, selector switches, heavy duty	500 000 operations
Emergency stop pushbutton	50 000 operations

LED products (Pilot lights, illuminated pushbuttons)

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

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

Make-and-break contacts



■ = Closed contact

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.

Compact range
Technical data

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: 120 V	3 A	
	at: 240 V	2 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	
Product service life		> 5000 hours	
Signal output			
Sound level		≥ 80 or 90 dB /10 cm (see page 136 for details)	
Audio frequency		6.7 kHz	
Pulsating frequency of light and sound output		2 Hz	

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

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

Compact range
Technical data

Pilot light CL2

Color	Current		Illuminance		Anti-inductive peak voltage	Main wavelength	Color temperature
	mA		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

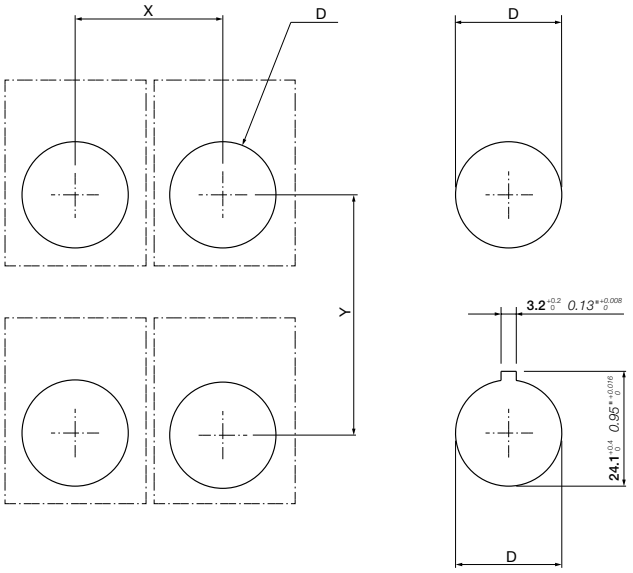
Buzzer CB

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

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

Compact range

Drilling plan



Compact range

Panel thickness: 1.5-6 mm (0.06-0.24")

Description	X mm	X inch	Y mm	Y inch	D ø mm	D inch
Pushbutton, pilot light, selector switch, buzzer, 30 mm emergency stop/machine stop	31	1.22"	50	1.97"	22.3 +0.40	0.88 +0.0160
Pushbutton, Pilot light, Selector switch, Buzzer (with legend plate)	31	1.22"	55	2.17"	22.3 +0.40	0.88 +0.0160
40 mm mushroom pushbutton, heavy duty pushbutton, 40 mm emergency stop/machine stop	41	1.61"	55	2.17"	22.3 +0.40	0.88 +0.0160

Pilot devices
Enclosures and assembled stations

Ordering details
143 Plastic enclosures for modular and compact range
144 Accessories for plastic enclosures
145 LED blocks for rear mounting
147 Legend plate holders and inserts
148 Legend plate for plastic enclosures MEP and CEP
149 Selector switches for vertical mounting
150 Assembled stations
153 Metal enclosures

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, 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


1SFC151383V0001

MA1-8128


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 standard 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	1	0.02
Grey			MA1-8128	1SFA611920R8128	1	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



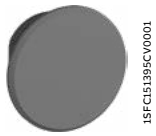
MCB-02B



MCB-01BG



MA5-3001



MA1-8129



MA1-8130

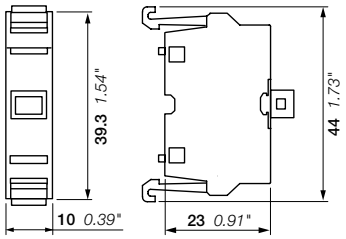


MA1-8136

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
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 MPMP/T		KA1-8045	1SFA616920R8045	10	0.004
Spacer with rotation stop		MA1-8160	1SFA611920R8160	10	0.003
Blanking plugs					
Grey		MA1-8129	1SFA611920R8129	10	0.005
Black		MA1-8130	1SFA611920R8130	10	0.005
Light grey		MA1-8136	1SFA611920R8136	10	0.005



MCB

Dimensions (mm, inches)

Enclosures

LED blocks for rear mounting



MLBL-00BW

Description

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

Color	Rated current mA	Wavelength nm	Type	Order code	Pkg qty	Weight (1 pce) kg
Rated voltage 12 V DC (1)						
Red	12	620	MLBL-00BR	1SFA611621R2001	10	0.012
Green	12	520	MLBL-00BG	1SFA611621R2002	10	0.012
Yellow	12	588	MLBL-00BY	1SFA611621R2003	10	0.012
Blue	12	468	MLBL-00BL	1SFA611621R2004	10	0.012
White	12	(2)	MLBL-00BW	1SFA611621R2005	10	0.012
Rated voltage 24 V AC / DC (1)						
Red	10	620	MLBL-01BR	1SFA611621R2011	10	0.012
Green	10	520	MLBL-01BG	1SFA611621R2012	10	0.012
Yellow	10	588	MLBL-01BY	1SFA611621R2013	10	0.012
Blue	10	468	MLBL-01BL	1SFA611621R2014	10	0.012
White	10	(2)	MLBL-01BW	1SFA611621R2015	10	0.012
Rated voltage 48 V AC / DC (1)						
Red	10	620	MLBL-02BR	1SFA611621R2021	10	0.012
Green	10	520	MLBL-02BG	1SFA611621R2022	10	0.012
Yellow	10	588	MLBL-02BY	1SFA611621R2023	10	0.012
Blue	10	468	MLBL-02BL	1SFA611621R2024	10	0.012
White	10	(2)	MLBL-02BW	1SFA611621R2025	10	0.012
Rated voltage 60 V AC / DC (1)						
Red	13	620	MLBL-03BR	1SFA611621R2031	10	0.012
Green	13	520	MLBL-03BG	1SFA611621R2032	10	0.012
Yellow	13	588	MLBL-03BY	1SFA611621R2033	10	0.012
Blue	13	468	MLBL-03BL	1SFA611621R2034	10	0.012
White	13	(2)	MLBL-03BW	1SFA611621R2035	10	0.012
Rated voltage 110 ... 130 V AC						
Red	15	620	MLBL-04BR	1SFA611621R2041	10	0.012
Green	15	520	MLBL-04BG	1SFA611621R2042	10	0.012
Yellow	15	588	MLBL-04BY	1SFA611621R2043	10	0.012
Blue	15	468	MLBL-04BL	1SFA611621R2044	10	0.012
White	15	(2)	MLBL-04BW	1SFA611621R2045	10	0.012
Rated voltage 110 ... 130 V DC (1)						
Red	10	620	MLBL-05BR	1SFA611621R2051	10	0.012
Green	10	520	MLBL-05BG	1SFA611621R2052	10	0.012
Yellow	10	588	MLBL-05BY	1SFA611621R2053	10	0.012
Blue	10	468	MLBL-05BL	1SFA611621R2054	10	0.012
White	10	(2)	MLBL-05BW	1SFA611621R2055	10	0.012
Rated voltage 220 V DC (1)						
Red	8	620	MLBL-06BR	1SFA611621R2061	10	0.012
Green	8	520	MLBL-06BG	1SFA611621R2062	10	0.012
Yellow	8	588	MLBL-06BY	1SFA611621R2063	10	0.012
Blue	8	468	MLBL-06BL	1SFA611621R2064	10	0.012
White	8	(2)	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



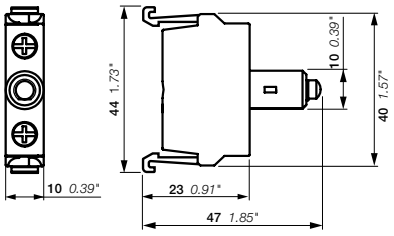
MLBL-07BW

Description

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

Color	Rated current mA	Wavelength nm	Type	Order code	Pkg qty	Weight (1 pce) kg
Rated voltage 230 V AC						
Red	10	620	MLBL-07BR	1SFA611621R2071	10	0.012
Green	10	520	MLBL-07BG	1SFA611621R2072	10	0.012
Yellow	10	588	MLBL-07BY	1SFA611621R2073	10	0.012
Blue	10	468	MLBL-07BL	1SFA611621R2074	10	0.012
White	10	(2)	MLBL-07BW	1SFA611621R2075	10	0.012
Rated voltage 380 V AC						
Red	10	620	MLBL-08BR	1SFA611621R2081	10	0.012
Green	10	520	MLBL-08BG	1SFA611621R2082	10	0.012
Yellow	10	582	MLBL-08BY	1SFA611621R2083	10	0.012
Blue	10	468	MLBL-08BL	1SFA611621R2084	10	0.012
White	10	(2)	MLBL-08BW	1SFA611621R2085	10	0.012
Rated voltage 415 V AC						
Red	11	620	MLBL-09BR	1SFA611621R2091	10	0.012
Green	11	520	MLBL-09BG	1SFA611621R2092	10	0.012
Yellow	11	588	MLBL-09BY	1SFA611621R2093	10	0.012
Blue	11	468	MLBL-09BL	1SFA611621R2094	10	0.012
White	11	(2)	MLBL-09BW	1SFA611621R2095	10	0.012

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



MLBL

Dimensions (mm, inches)

Enclosures

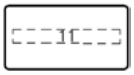
Legend plate holders and inserts



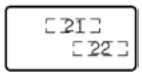
MA6-1060



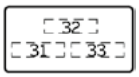
MA6-1061



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.

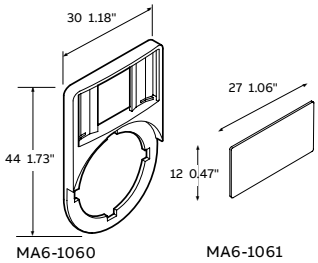
Description	Type	Order code	Pkg qty	Weight (1pce) kg
Legend plate holder				
Grey plastic	MA6-1060	1SFA611930R1060	10	0.002
Insert				
Without text or symbol	MA6-1061	1SFA611930R1061	10	0.001
1-position inserts				
O	MA6-1062	1SFA611930R1062	10	0.001
I	MA6-1063	1SFA611930R1063	10	0.001
II	MA6-1064	1SFA611930R1064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

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	10	0.004
2-seat	without text	MA6-1002	1SFA611930R1002	10	0.006
3-seat	without text	MA6-1003	1SFA611930R1003	10	0.008
4-seat	without text	MA6-1004	1SFA611930R1004	10	0.010
6-seat	without text	MA6-1005	1SFA611930R1005	10	0.012
1-seat	O	MA6-1012	1SFA611930R1012	10	0.004
1-seat	I	MA6-1013	1SFA611930R1013	10	0.004
2-seat	O I	MA6-1014	1SFA611930R1014	10	0.006
3-seat	O I I	MA6-1015	1SFA611930R1015	10	0.008
3-seat	I O II	MA6-1016	1SFA611930R1016	10	0.008
Pos. 1 yellow plastic and aluminium laminate					
2-seat	without text	MA6-1006	1SFA611930R1006	10	0.006
3-seat	without text	MA6-1007	1SFA611930R1007	10	0.008
4-seat	without text	MA6-1008	1SFA611930R1008	10	0.010
6-seat	without text	MA6-1009	1SFA611930R1009	10	0.012
Emergency stop legend plates for 1-seat enclosures					
For horizontally mounted enclosures. Yellow plastic laminate. 66 x 59 mm.					
Without text		MA6-1024	1SFA611930R1024	10	0.004
Nöd Stopp		MA6-1025	1SFA611930R1025	10	0.004
Emergency stop		MA6-1026	1SFA611930R1026	10	0.004
Not Aus		MA6-1027	1SFA611930R1027	10	0.004
ARRET D'URGENCE		MA6-1028	1SFA611930R1028	10	0.004
Hätäseis Nödstopp		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 Nödstopp		MA6-1104	1SFA611930R1104	10	0.004

Legend plates for CEP plastic enclosures

For Ø 22 mm operator

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

Enclosures

Selector switches for vertical mounting



M2SSV1-10B

Description

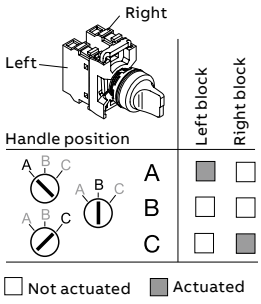
When ordering complete vertically mounted enclosures:
- Select selector switches for vertical mounting
- Select contact blocks and LED blocks for rear mounting.

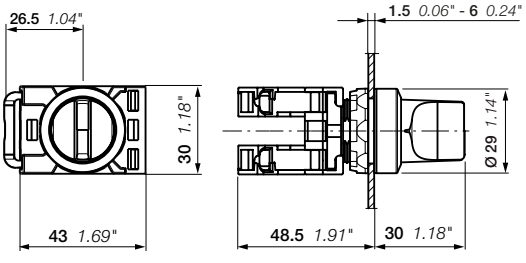
Per operator select between:
- One legend plate for vertical enclosures
- One spacer

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



MEPY1-1042



CEPY1-2001



MEP2-1001

Description

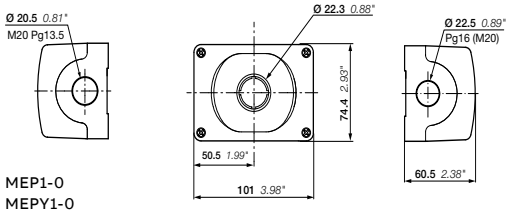
Assembled enclosures with emergency stop pushbuttons, yellow / light grey color designed according to the safety of machinery standard EN ISO 13850 for emergency stops.

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	1 2	MEPY1-1041	1SFA611821R1041	1	0.250
Pull release	0 2	MEPY1-1035	1SFA611821R1035	1	0.466
Twist release with plastic legend plate "Emergency stop"	0 2	MEPY1-1040	1SFA611821R1040	1	0.240
1-seat plastic enclosures with 40 mm compact emergency stop pushbuttons Yellow / light 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 machine 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 O					

Enclosures
Dimensions

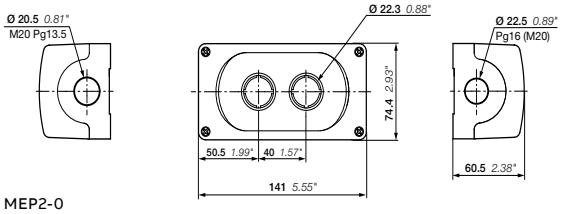
MEP plastic enclosures

1-seat



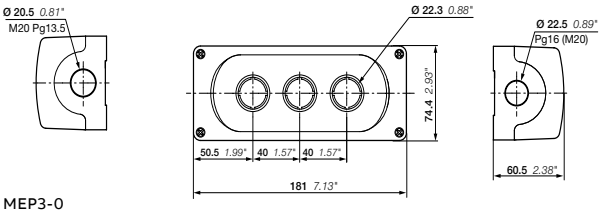
MEP1-0
MEPY1-0

2 seats



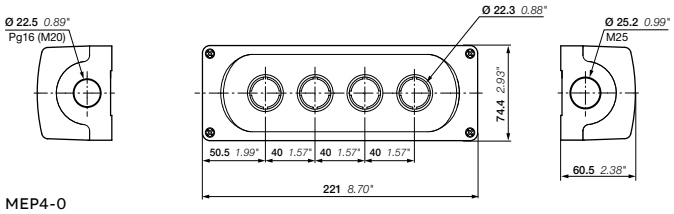
MEP2-0

3-seats



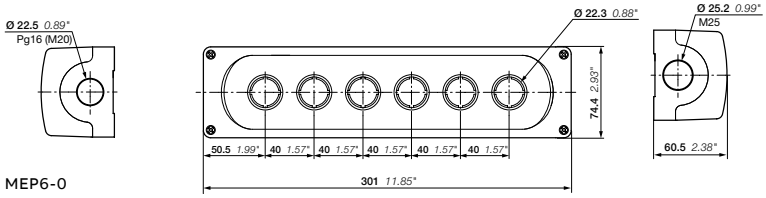
MEP3-0

4-seats

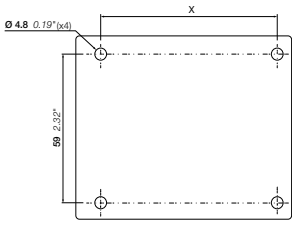


MEP4-0

6-seats



MEP6-0

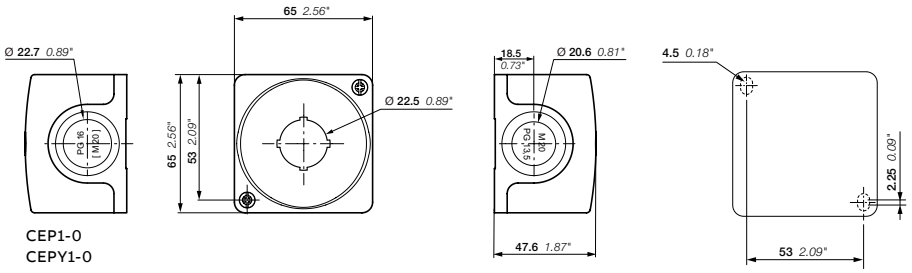


MEP drilling plan

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



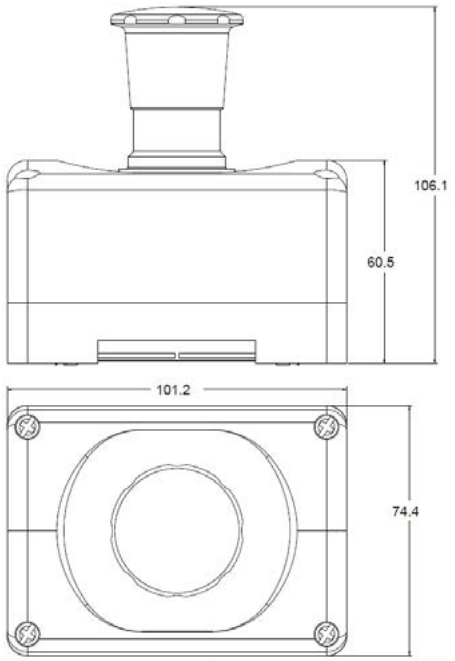
CEP1-0
CEPY1-0

CEP drilling plan

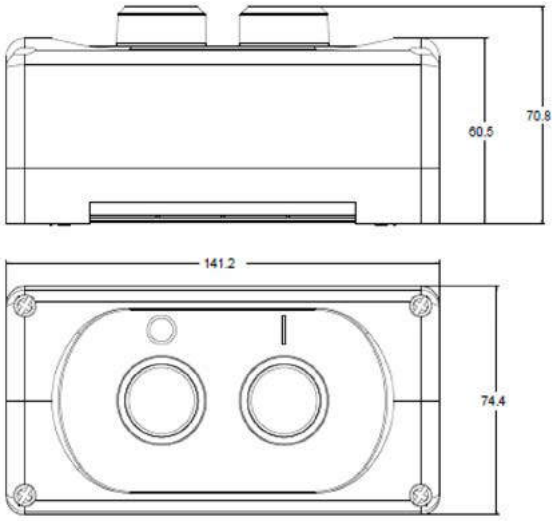
Dimensions (mm, inches)

Enclosures
Dimensions

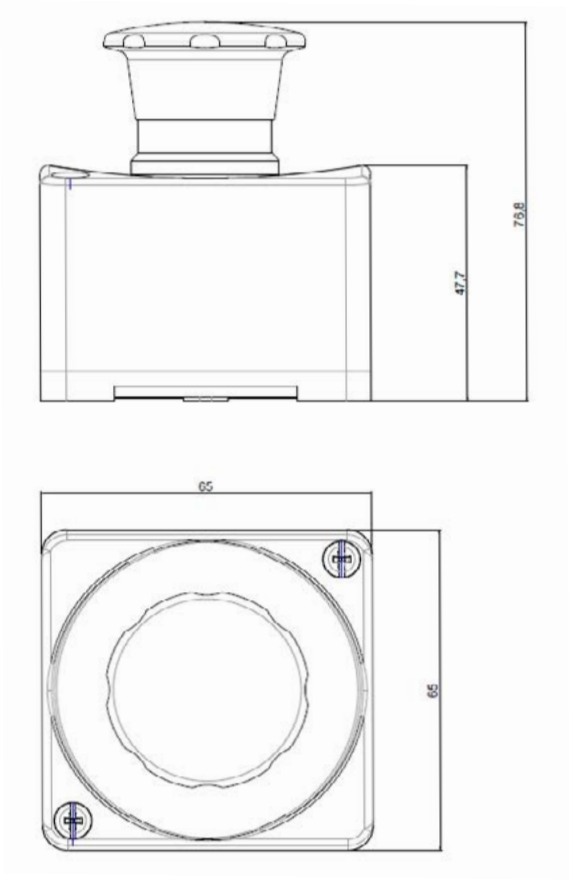
Assembled stations



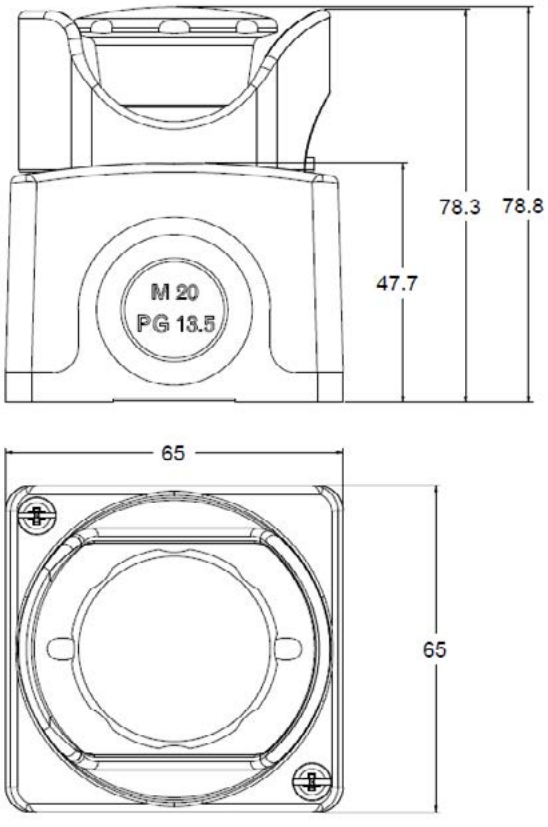
MEPY1-1035, MEPY1-1040,
MEPY1-1041, MEPY1-1042



MEP2-1001



CEPY1-1001, CEPY1-1002



CEPY1-2001, CEPY1-2002

Dimensions (mm)

Enclosures

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 installation					
1-seat	1	080SP1T	1SFA620870R5001	1	0.416
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

Enclosures

Metal enclosures without holes


1SFC151642V0001

080SP1SFC


1SFC151634V0001

080SP3SFC


1SFC151482V0001

080SP8SF

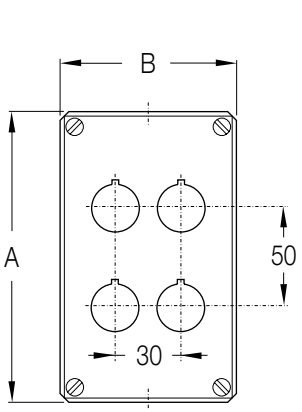
Enclosure without holes for pilot devices

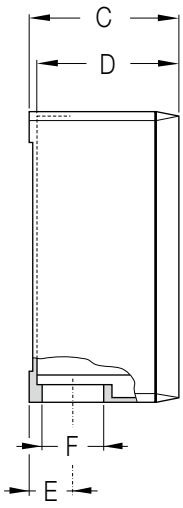
Empty enclosures in aluminium, IP66. Grey color.

Description	Size type	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

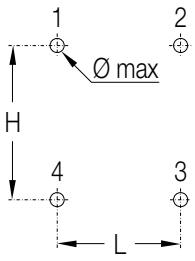
Enclosures

Dimension





Drilling plan



Size type	Holes Ø 22		Dimensions											Drilling plan		
	Vertic.	Horizont.	A		B		C		D		E		F	H x L x Ø max		Position of the holes
			mm	in	mm	in	mm	in	mm	in	mm	in		mm	in	
1	1	-	87	3.43	87	3.43	75	2.95	72	2.83	21.5	0.85	PG 21	74x55x4	2.91x2.17x0.16	1-3
1M	1	-	87	3.43	87	3.43	100	3.94	97	3.82	21.5	0.85	PG 21	68x55x4	2.68x2.17x0.16	1-3
2	2	-	145	5.71	87	3.43	75	2.95	72	2.83	21.5	0.85	PG 21	132x55x4	5.2x2.17x0.16	1-3
2M	2	-	145	5.71	87	3.43	100	3.94	97	3.82	21.5	0.85	PG 21	126x55x4	4.96x2.17x0.16	1-3
3	3	-	195	7.68	87	3.43	100	3.94	97	3.82	21.5	0.85	PG 21	176x55x4	6.93x2.17x0.16	1-3
4	2	2	145	5.71	87	3.43	75	2.95	72	2.83	21.5	0.85	PG 21	132x55x4	5.2x2.17x0.16	1-3
4M	2	2	145	5.71	87	3.43	100	3.94	97	3.82	21.5	0.85	PG 21	126x55x4	4.96x2.17x0.16	1-3
6	3	2	195	7.68	87	3.43	100	3.94	97	3.82	21.5	0.85	PG 21	176x55x4	6.93x2.17x0.16	1-3
8	2	4	152	5.98	152	5.98	101.5	4	98.5	3.88	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	3.88	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	3.88	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	3.88	35	1.38	PG 36	221x282x6	8.7x11.1x0.24	1-2-3-4

Legend plates

Ordering details
159 Legend plate holder and inserts
161 Legend plates for plastic enclosures
162 Legend plates for emergency stop
163 Legend plates for panels

Legend plates







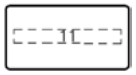
ABB offers a wide range of alternatives to label our products. Choose between marked aluminium legend plates, insert holders with a wide range of marked inserts.

Legend plates

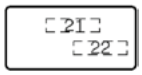
Legend plate holder and inserts



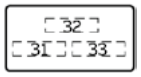
KA1-8120



1-position insert



2-postion insert



3-position insert

Description

For Ø 22 mm operators installed in panel, laser marked with text or symbols.
Inserts are 15x27 mm, made of plastic and aluminium laminate.

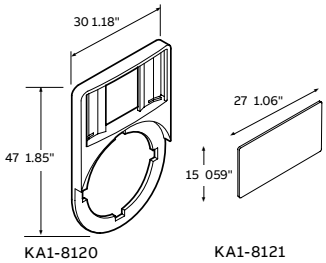
Description	Type	Order code	Pkg qty	Weight (1pce) kg
Legend plate holder				
Black plastic	KA1-8120	1SFA616920R8120	100	0.002
Insert				
Without text or symbol	KA1-8121	1SFA616920R8121	100	0.001
1-position inserts				
O	MA6-1032	1SFA611930R1032	10	0.001
I	MA6-1033	1SFA611930R1033	10	0.001
→	MA6-1034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

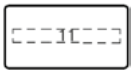
Legend plate holders and inserts



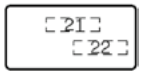
MA6-1060



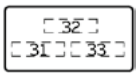
MA6-1061



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 12x27 mm, made of plastic and aluminium laminate.

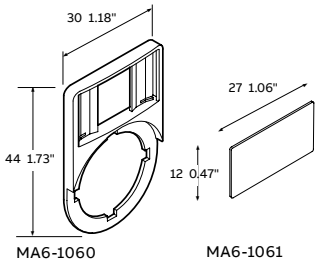
Description	Type	Order code	Pkg qty	Weight (1pce) kg
Legend plate holder				
Grey plastic	MA6-1060	1SFA611930R1060	10	0.002
Insert				
Without text or symbol	MA6-1061	1SFA611930R1061	10	0.001
1-position inserts				
O	MA6-1062	1SFA611930R1062	10	0.001
I	MA6-1063	1SFA611930R1063	10	0.001
II	MA6-1064	1SFA611930R1064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

Legend plates

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	10	0.004
2-seat	without text	MA6-1002	1SFA611930R1002	10	0.006
3-seat	without text	MA6-1003	1SFA611930R1003	10	0.008
4-seat	without text	MA6-1004	1SFA611930R1004	10	0.010
6-seat	without text	MA6-1005	1SFA611930R1005	10	0.012
1-seat	O	MA6-1012	1SFA611930R1012	10	0.004
1-seat	I	MA6-1013	1SFA611930R1013	10	0.004
2-seat	O I	MA6-1014	1SFA611930R1014	10	0.006
3-seat	O I I	MA6-1015	1SFA611930R1015	10	0.008
3-seat	I O II	MA6-1016	1SFA611930R1016	10	0.008
Pos. 1 yellow plastic and aluminium laminate					
2-seat	without text	MA6-1006	1SFA611930R1006	10	0.006
3-seat	without text	MA6-1007	1SFA611930R1007	10	0.008
4-seat	without text	MA6-1008	1SFA611930R1008	10	0.010
6-seat	without text	MA6-1009	1SFA611930R1009	10	0.012
Emergency stop legend plates for 1-seat enclosures					
For horizontally mounted enclosures. Yellow plastic laminate. 66 x 59 mm.					
Without text		MA6-1024	1SFA611930R1024	10	0.004
Nöd Stopp		MA6-1025	1SFA611930R1025	10	0.004
Emergency stop		MA6-1026	1SFA611930R1026	10	0.004
Not Aus		MA6-1027	1SFA611930R1027	10	0.004
ARRET D'URGENCE		MA6-1028	1SFA611930R1028	10	0.004
Hätäseis Nödstopp		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 Nödstopp		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

Legend plates

Legend plates for emergency stop



1SFC151388V0001

KTC15-1005



1SFC151386V0001

SK615546-2

Description

For Ø 22 mm operators installed in panel. 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	KTC15-1038	1SFA616915R1038	10	0.003
Emergency stop	KTC15-1005	1SFA616915R1005	10	0.003
Not Aus	KTC15-6005	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 Nödstopp	–	SK615546-5	10	0.010
PARADA DE EMERGENCIA	–	SK615546-6	10	0.010
Emergency stop NOT AUS ARRET D'URGENCE	–	SK615546-13	10	0.010
Noodstop	–	SK615546-15	10	0.010
Aluminum laminate rectangular 59 x 39.5 mm				
Without text	MA6-1010	1SFA611930R1010	10	0.005
Nöd stopp	MA6-1017	1SFA611930R1017	10	0.005
Not haus	MA6-1018	1SFA611930R1018	10	0.005
Emergency stop	MA6-1019	1SFA611930R1019	10	0.005
ARRET D'URGENCE	MA6-1020	1SFA611930R1020	10	0.005
Hätäseis	MA6-1021	1SFA611930R1021	10	0.005
PARADA DE EMERGENCIA	MA6-1022	1SFA611930R1022	10	0.005
Plastic laminate rectangular 59 x 39.5 mm				
Without text	MA6-1011	1SFA611930R1011	10	0.002
Emergency stop	MA6-1023	1SFA611930R1023	10	0.002

Legend plates

Legend plates for panels



MA16-1001



SK615552-14



SK615550-61



SK615552-25



SK615550-81



SK615562-82

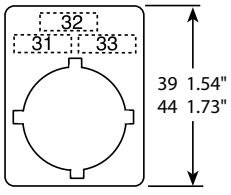
Description

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
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
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
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
Hand	O	Auto	–	SK615550-80	10	0.002



3-position engraved

Dimensions (mm, inches)

Emergency stops and machine stops

Ordering details

167 Modular plastic range
172 Modular metal range
173 Compact range
175 Machine stops

Emergency stops and machine stops

ABB offers a wide range of emergency stops and machine stops. These emergency stops conform to the standard EN IEC 60947-5-5, EN ISO 13850, IEC 60204-1 and Machinery directive 2006/42/EC







Emergency stops

Modular plastic range / Emergency stop pushbuttons



MPET4-20R-01

Non illuminated complete unit

Includes actuator, holder and contact blocks.
The emergency stop pushbuttons without text conform to the standards EN IEC 60947-5-5, 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 40 mm						
Red	Twist release	0 1	MPET4-20R-01	1SFA611523R2041	1	0.052
Red	Twist release	0 2	MPET4-20R-02	1SFA611523R2051	1	0.065
Red	Twist release	1 1	MPET4-20R-11	1SFA611523R2071	1	0.065
Red	Twist release	1 2	MPET4-20R-12	1SFA611523R2091	1	0.083
Red	Pull release	0 1	MPEP4-20R-01	1SFA611524R2041	1	0.048
Red	Pull release	0 2	MPEP4-20R-02	1SFA611524R2051	1	0.065

For more installation information, please refer to document 1SFC151011M0201



MPET3-10R



MPEK3-11R



MPET4-10R



MPET4-1018



MPMP4-10R

Non illuminated actuator

Holders and contact blocks are not included. The emergency stop pushbuttons without marking or with symbol ⓥ conform to the standard EN IEC 60947-5-5, Safety of machinery EN ISO 13850, IEC 60204-1 and to Machinery Directive 2006/42/EC.

Operator	Marking	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	ⓥ	Twist release	MPET4-1018	1SFA611599R1018	1	0.036
Red	EMO	Twist release	MPET4-1021	1SFA611599R1021	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

Emergency stops

Modular plastic range / Emergency stop pushbuttons



MPMP3-11R



MPMT4-11R

Illuminated actuator

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



MCBH-00



MCB-10

Holders and contact blocks for front mounting

Description	Contacts	Type	Order code	Pkg qty	Weight (1 pce) kg
Holders					
3-position holder	– –	MCBH-00	1SFA611605R1100	10	0.006
Single contact blocks					
3-position holder	1 0	MCB-10	1SFA611610R1001	10	0.013
	0 1	MCB-01	1SFA611610R1010	10	0.013
Single contact blocks, gold plated contacts					
3-position	1 0	MCB-10G	1SFA611610R1101	10	0.013
	0 1	MCB-01G	1SFA611610R1110	10	0.013

It is only the accessories above that are elegible for Emergency stop applications by EN IEC 60947-5-5

Emergency stops

Modular plastic range / LED blocks for front mounting



MLBL-00W

Color	Rated current mA	Wavelength nm	Type	Order code	Pkg qty	Weight (1pce) kg
Rated voltage 12 V DC						
Red	12	620	MLBL-00R	1SFA611621R1001	10	0.012
Green	12	520	MLBL-00G	1SFA611621R1002	10	0.012
Yellow	12	588	MLBL-00Y	1SFA611621R1003	10	0.012
Blue	12	468	MLBL-00L	1SFA611621R1004	10	0.012
White	12	(1)	MLBL-00W	1SFA611621R1005	10	0.012
Rated voltage 24 V AC/DC						
Red	10	620	MLBL-01R	1SFA611621R1011	10	0.012
Green	10	520	MLBL-01G	1SFA611621R1012	10	0.012
Yellow	10	588	MLBL-01Y	1SFA611621R1013	10	0.012
Blue	10	468	MLBL-01L	1SFA611621R1014	10	0.012
White	10	(1)	MLBL-01W	1SFA611621R1015	10	0.012
Rated voltage 48 V AC/DC						
Red	10	620	MLBL-02R	1SFA611621R1021	10	0.012
Green	10	520	MLBL-02G	1SFA611621R1022	10	0.012
Yellow	10	588	MLBL-02Y	1SFA611621R1023	10	0.012
Blue	10	468	MLBL-02L	1SFA611621R1024	10	0.012
White	10	(1)	MLBL-02W	1SFA611621R1025	10	0.012
Rated voltage 60 V AC/DC						
Red	13	620	MLBL-03R	1SFA611621R1031	10	0.012
Green	13	520	MLBL-03G	1SFA611621R1032	10	0.012
Yellow	13	588	MLBL-03Y	1SFA611621R1033	10	0.012
Blue	13	468	MLBL-03L	1SFA611621R1034	10	0.012
White	13	(1)	MLBL-03W	1SFA611621R1035	10	0.012
Rated voltage 110-130 V AC						
Red	15	620	MLBL-04R	1SFA611621R1041	10	0.012
Green	15	520	MLBL-04G	1SFA611621R1042	10	0.012
Yellow	15	588	MLBL-04Y	1SFA611621R1043	10	0.012
Blue	15	468	MLBL-04L	1SFA611621R1044	10	0.012
White	15	(1)	MLBL-04W	1SFA611621R1045	10	0.012
Rated voltage 110-130 V DC						
Red	10	620	MLBL-05R	1SFA611621R1051	10	0.012
Green	10	520	MLBL-05G	1SFA611621R1052	10	0.012
Yellow	10	588	MLBL-05Y	1SFA611621R1053	10	0.012
Blue	10	468	MLBL-05L	1SFA611621R1054	10	0.012
White	10	(1)	MLBL-05W	1SFA611621R1055	10	0.012
Rated voltage 220 V DC						
Red	8	620	MLBL-06R	1SFA611621R1061	10	0.012
Green	8	520	MLBL-06G	1SFA611621R1062	10	0.012
Yellow	8	588	MLBL-06Y	1SFA611621R1063	10	0.012
Blue	8	468	MLBL-06L	1SFA611621R1064	10	0.012
White	8	(1)	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.

Emergency stops

Modular plastic range / LED blocks for front mounting

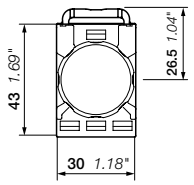


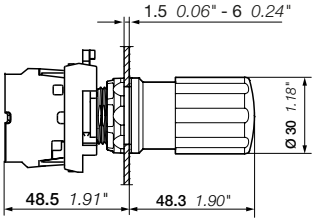
MLBL-00W

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

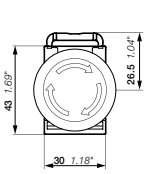
Note: care should be taken for DC supply where + and - must be correctly connected. This is marked X1 (+) and X2 (-) on the product.
(1) X=0.31, Y=0.32 according to the ICI Chromaticity diagram.
(2) Higher threshold to light up LED to be used in application where there is risk of large induced voltages.

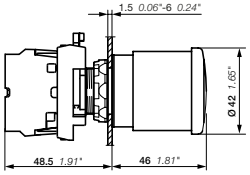
5 position holder is not allowed to used to be used for emergency stops.
For technical data please refer to chapter 2.
For more installation information, please refer to document 1SFC151011M0201



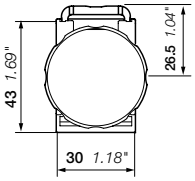


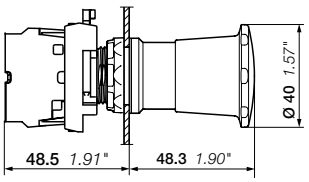
MPET3, MPEP3



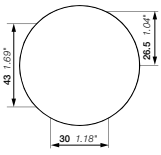


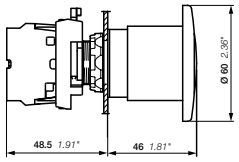
MPMT3, MPMP3



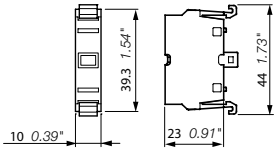


MPET4, MPEP4

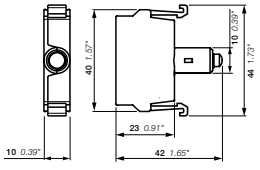




MPMT4, MPMP4



MCB



MLBL

Dimensions (mm, inches)

Emergency stops

Modular plastic range / Assembled stations



MEPY1-1042



MEPY1-1042



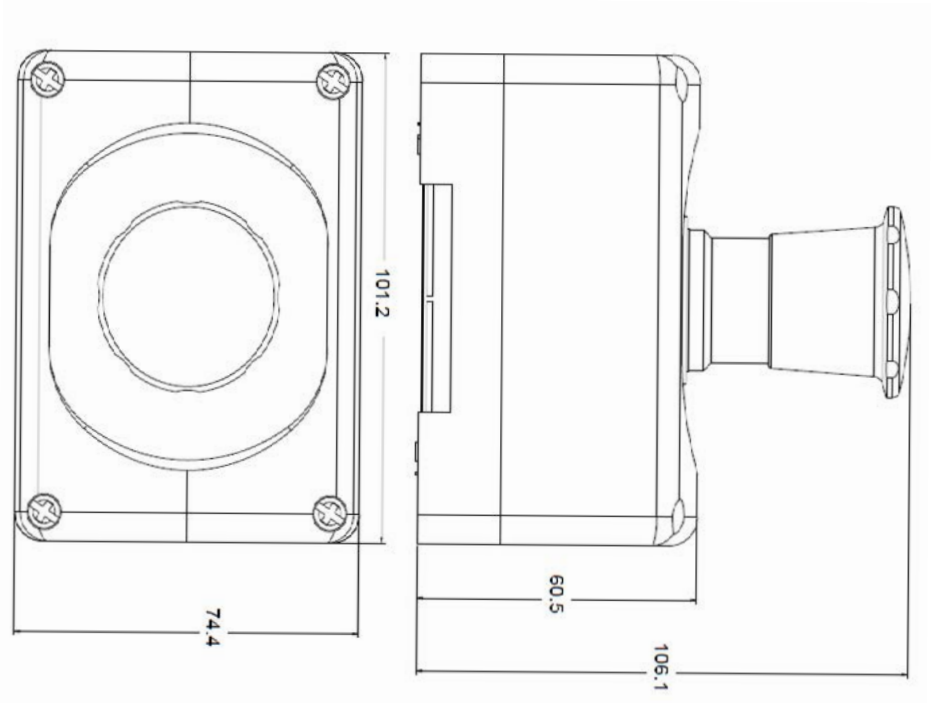
MEPY1-1042

Description

Assembled enclosures with emergency stop pushbuttons and yellow background without text comply with 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	1 2	MEPY1-1041	1SFA611821R1041	1	0.250
Pull release	0 2	MEPY1-1035	1SFA611821R1035	1	0.466
Twist release with plastic legend plate "Emergency stop"	0 2	MEPY1-1040	1SFA611821R1040	1	0.240

For technical data please refer to chapter 2.
For more installation information, please refer to document 1SFC151011M0201



Dimensions (mm)

Emergency stops

Modular metal range / Non-illuminated emergency stop pushbutton



P9XER4RAW

Description

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

Color	Release method	Type	Order code	Pkg qty	Weight (1 pce) kg
Ø 40 mm					
● Red	Twist release	P9XER4RAW	1SFA185078R9001	1	0.055
● Red	Twist release	P9XER4RAW-AA	1SFA205228R9001	200	0.055

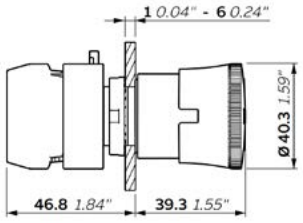
5 position holder is not allowed.
For technical data please refer to chapter 3.
For more installation information, please refer to 1SFC151011M02

Screw terminals

Description	Contacts 	Type	Order code	Pkg qty	Weight (1 pce) kg
Holders					
3-position	- -	P9ACFS3	1SFA187841R8000	1	0.009
Single contact blocks					
For 3-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-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-position holder	1 0	P9B10VA	1SFA187004R8201	1	0.009
	0 1	P9B01VR	1SFA187003R8110	1	0.010

Faston terminals
Single contact blocks (1)

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



P9XER4RAW

Dimensions (mm, inches)

Emergency stops

Compact range / Non-illuminated emergency stop pushbuttons


CE3T-10R-01


CE3K1-10R-01


CE4T-10R-01


CE4P-10R-01


CE4K1-10R-02



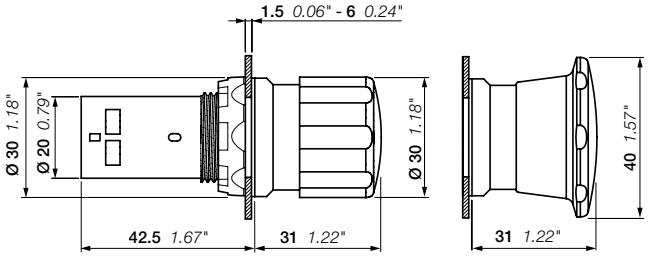
CE9-1010

Description

The emergency stop pushbuttons without text conform to the standards EN IEC 60947-5-5, EN ISO 13850, IEC 60204-1 and to Machinery directive 2006/42/EC.

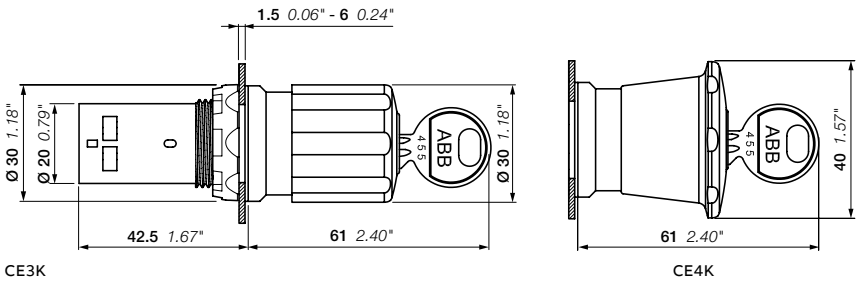
Operator	Release method	Contacts	Type	Order code	Marking	Pkg qty	Weight (1 pce)
							kg
Ø 30 mm							
● Red	Twist release	0 1	CE3T-10R-01	1SFA619500R1041		1	0.032
		1 1	CE3T-10R-11	1SFA619500R1071		1	0.032
		0 2	CE3T-10R-02	1SFA619500R1051		1	0.032
● Red	Pull release	0 1	CE3P-10R-01	1SFA619501R1041		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
			CE9-1011	1SFA619599R1011	EMO	1	0.036
		0 2	CE4T-10R-02	1SFA619550R1051		1	0.036
			CE9-1010	1SFA619599R1010	EMO	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
			CE9-1012	1SFA619599R1012	PUSH TO STOP PULL TO RUN	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

For technical data please refer to chapter 4.
For more installation information, please refer to document 1SFC151011M0201



CE3P, CE3T

CE4P, CE4T



CE3K

CE4K

Dimensions (mm, inches)

Emergency stops

Compact range / Assembled stations for emergency stop pushbuttons



CEPY1-1001



CEPY1-1002



CEPY1-1006



CEPY1-2001



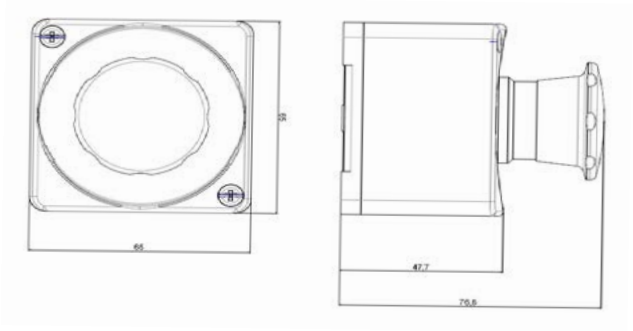
CEPY1-2002

Description

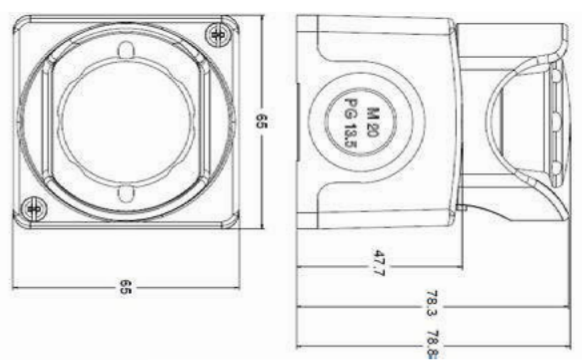
These assembled enclosures with emergency stop pushbuttons and yellow background comply with the safety of machinery standard EN ISO 13850 for emergency stops.

Release method	Contacts	Type	Order code	Pkg qty	Weight (1 pce)
					kg
1-seat plastic enclosures with 40 mm 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

For technical data please refer to chapter 4.
For more installation information, please refer to document 1SFC151011M0201



CEPY1-1001, CEPY1-1002



CEPY1-2001, CEPY1-2002

Dimensions (mm, inches)

Machine stops

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

For technical data please refer to chapter 2.
For more installation information, please refer to document 1SFC151011M0201



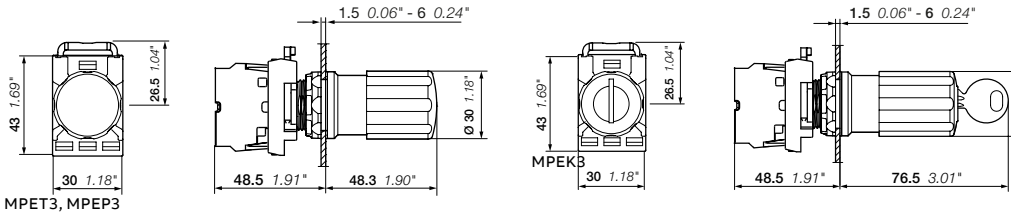
MCBH-00



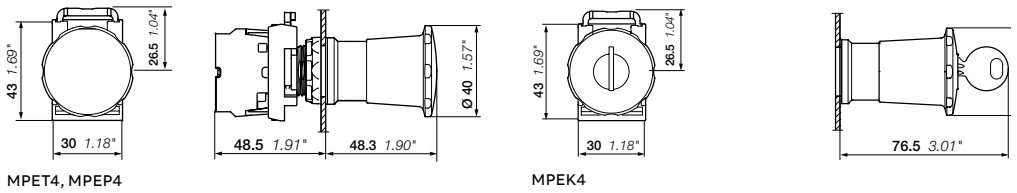
MCB-10

Holders and contact blocks for front mounting

Description	Contacts	Type	Order code	Pkg qty	Weight (1 pce) kg
Holders					
3-position	– –	MCBH-00	1SFA611605R1100	10	0.006
Single contact blocks					
3-position holder	1 0	MCB-10	1SFA611610R1001	10	0.013
	0 1	MCB-01	1SFA611610R1010	10	0.013
Single contact blocks, gold plated contacts					
3-position holder	1 0	MCB-10G	1SFA611610R1101	10	0.013
	0 1	MCB-01G	1SFA611610R1110	10	0.013



MPET3, MPEP3



MPET4, MPEP4

MPEK4

Dimensions (mm, inches)

07

Machine stops

Compact range / Machine stop pushbuttons



CE3T-10B-11



CE3P-10B-11



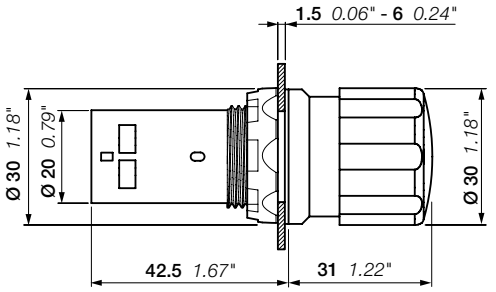
CE4T-10B-11



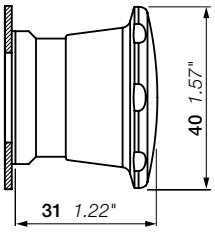
CE4P-10B-11

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

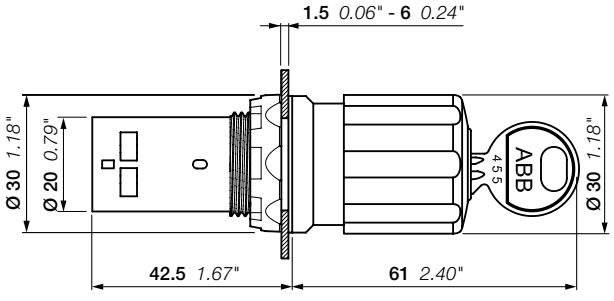
For technical data please refer to chapter 4.
For more installation information, please refer to document 1SFC151011M0201



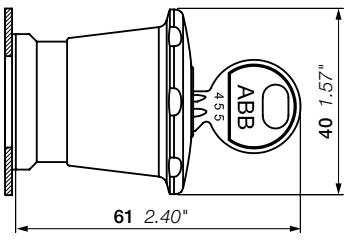
CE3P, CE3T



CE4P, CE4T



CE3K



CE4K

Dimensions (mm, inches)

Machine stops

Compact range / Assembled stations for machine stop pushbuttons



CEP1-1002



CEP1-2001

Description

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

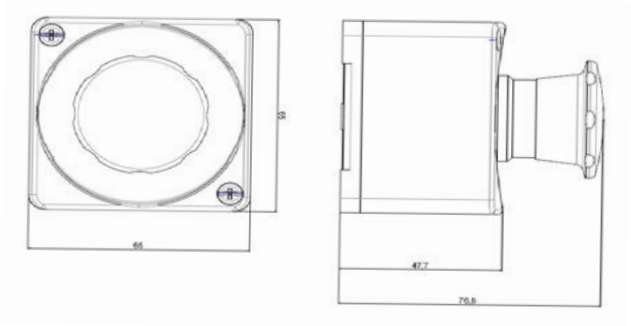
Release method	Contacts	Type	Order code	Pkg qty	Weight (1 pce)
					kg
1-seat plastic enclosures with 40 mm compact machine stop pushbuttons Dark grey / light grey color					
Twist release	1 1	CEP1-1001	1SFA619811R1001	1	0.108
Pull release	1 1	CEP1-1002	1SFA619811R1002	1	0.108
Twist release, grey shroud	1 1	CEP1-2001	1SFA619811R2001	1	0.124
Pull release, grey shroud	1 1	CEP1-2002	1SFA619811R2002	1	0.124

For technical data please refer to chapter 4.
For more installation information, please refer to document 1SFC151011M0201

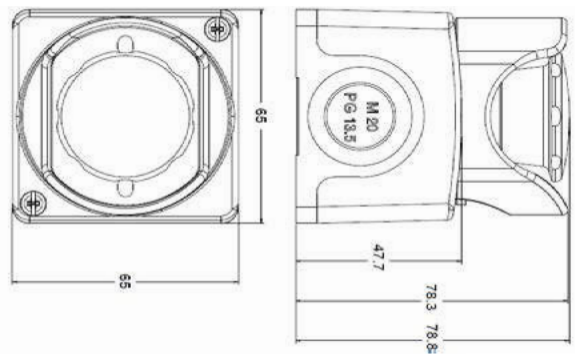
Accessories

Description	Type	Order code
Grey shroud for Compact	CA1-8054	1SFA619920R8054
Adaptation unit for DYNlink solution with M20 fitting. For e.g. Compact	Tina 2A *	2TLA020054R0100
Adaptation unit for DYNlink solution, internal assembly. For e.g. Compact.	Tina 2B *	2TLA020054R1100
Adaptation unit for DYNlink solution with M20 fitting and M12 connector. For e.g. connecting Compact to Pluto/Vital.	Tina 3A *	2TLA020054R0200

* For more information about Tina adapter units, please see Safety Products Catalog 2TLC010001C0202.



CEP1-1001, CEP1-1002



CEP1-2001, CEP1-2002

Dimensions (mm)

General technical data

General technical data
180 Color selection
181 Degrees of protection

General technical data
Color selection

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

Meaning of colors – General principles

Color		Safety of persons or environment	Condition of process	State of equipment
●	Red	Danger	Emergency	Faulty
●	Yellow	Warning/caution	Abnormal	Abnormal
●	Green	Safe	Normal	Normal
●	Blue	Mandatory significance		
○ ● ●	White, 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.

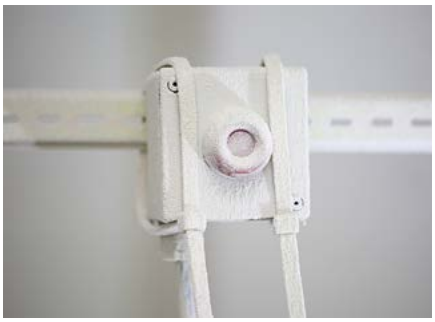
General technical data

Degrees of protection

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

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

	First figure	Second 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	



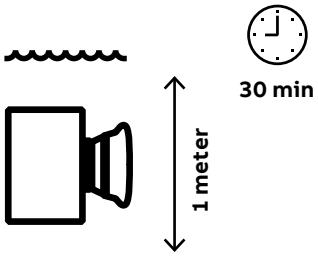


Note: the type of enclosure or cubicle in which the equipment must be installed prevails with respect to the degree of protection.
(*) According to DIN 400 50-9.

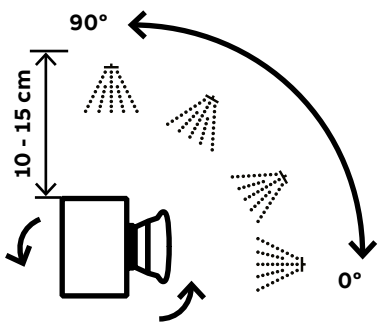
Water tests

IP67

The product is submerged



IP69K



For more information see the Pilot Devices Guide 1SFC151011C0201

Index

Order code classification

Order code	Type	Page
1SFA170190R8000	080CPN	**3**/100
1SFA170191R8000	080CPR	**3**/100
1SFA170192R8000	080CPV	**3**/100
1SFA170198R8000	080CPT	**3**/100
1SFA170801R1001	080SP1	**5**/153
1SFA170802R1002	080SP2	**5**/153
1SFA170803R1003	080SP3	**5**/153
1SFA170804R1004	080SP4	**5**/153
1SFA170806R1006	080SP6	**5**/153
1SFA170807R1008	080SP8	**5**/153
1SFA170808R1012	080SP12	**5**/153
1SFA170809R1018	080SP18	**5**/153
1SFA170810R1024	080SP24	**5**/153
1SFA170831R1001	080SP1M	**5**/153
1SFA170832R1002	080SP2M	**5**/153
1SFA170834R1004	080SP4M	**5**/153
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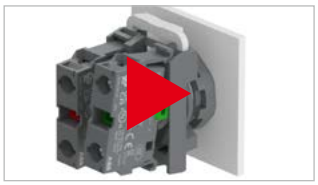
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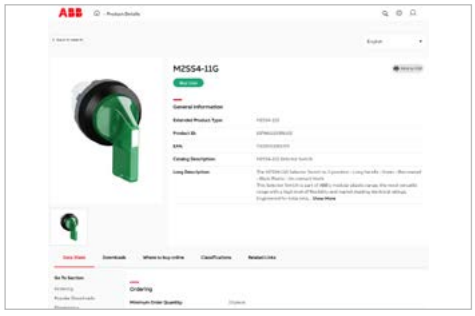
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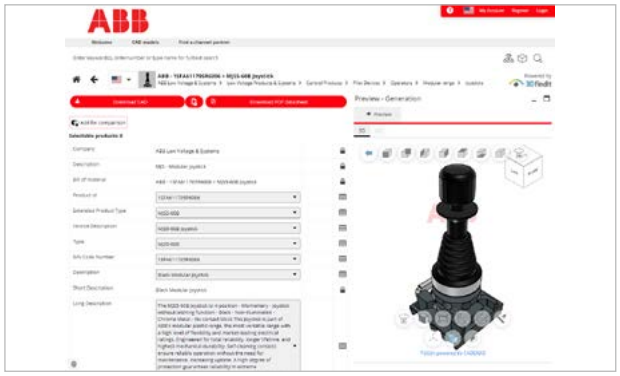


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