

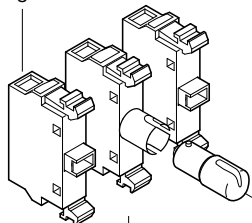
General information Mounting

8

Exploded view

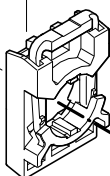
Contact block

Single pole with making or breaking contact

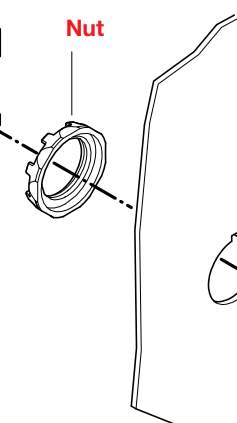


Holder

Available either for three or five blocks in one single row. Additional blocks can be stacked on holders for three blocks.

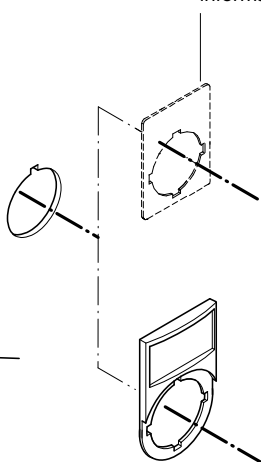


Nut



Legend plates

Of aluminum with slots that guide the legend plate and the operator into the correct position. Please, see the chapter 'legend plates' for more information.

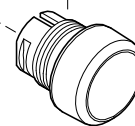


Lamp block

Illuminated pushbuttons, illuminated selector switches and pilot lights have a lamp block in the center position of the holder.

Operator

Buttons, lenses and handles in several colors. Illuminated or non-illuminated.



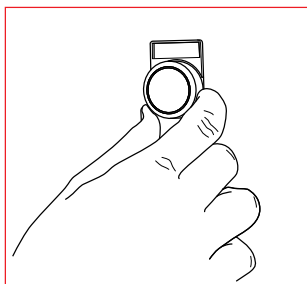
Legend plate holder

Of black plastic. Insert of brushed aluminum. Please, see the chapter 'legend plates' for more information.

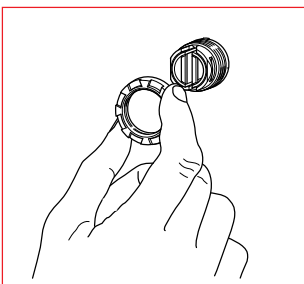
Bezels

Pushbuttons, selector switches and toggle switches with bezel in black plastic, chrome metal are available.

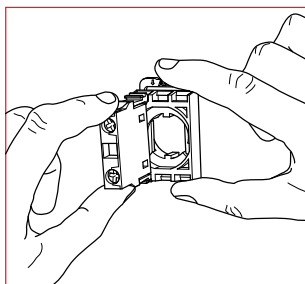
Easy to mount



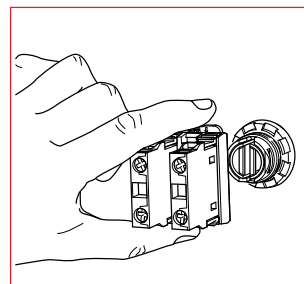
The operator is to be inserted from the front.....



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

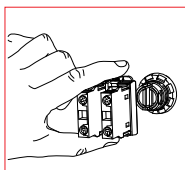
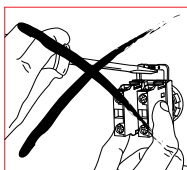


The contact blocks/lamp block are then snapped on to the holder...



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

...and to remove



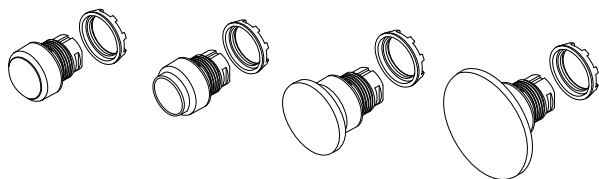
Press down the spring on the holder and pull the holder from the actuator.

Selection Guide

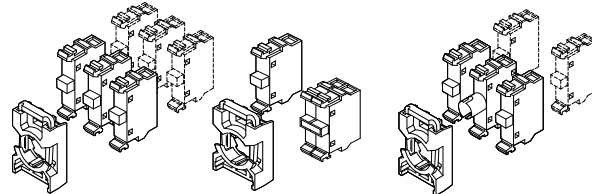
Pilot Devices
Modular Range
22mm

8

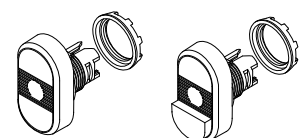
Pushbuttons and Mushroom pushbuttons



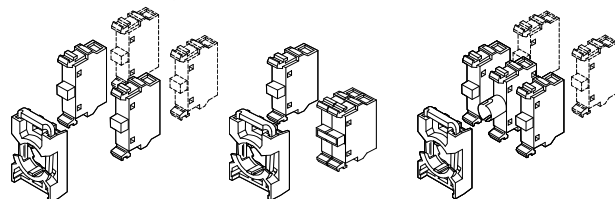
Contact block/lamp block combinations



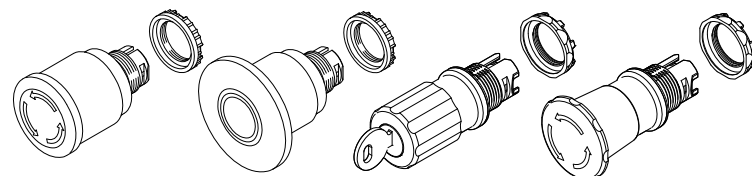
Double pushbuttons



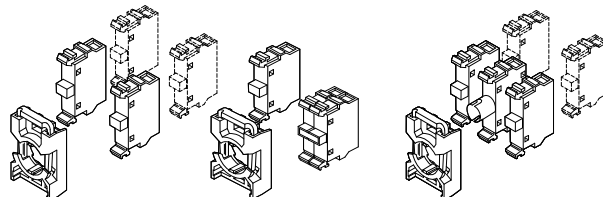
Contact block/lamp block combinations



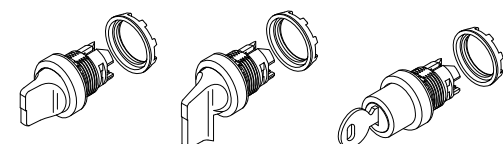
Emergency stop pushbuttons



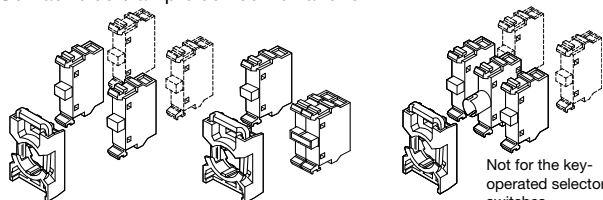
Contact block/lamp block combinations



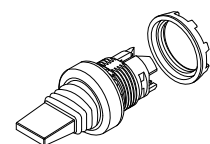
Selector switches



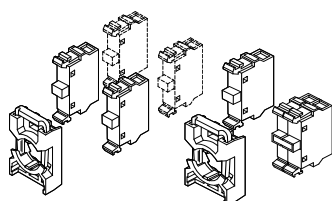
Contact block/lamp block combinations



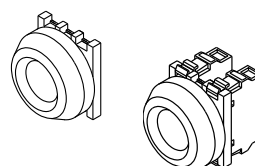
Toggle switches



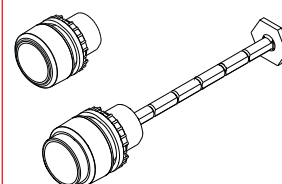
Contact block combinations



Definite purpose push-buttons

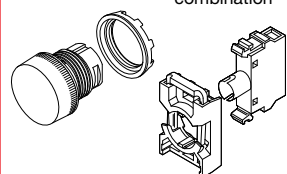


Reset pushbuttons



Pilot lights

Lamp block combination



Buzzers



Potentiometers

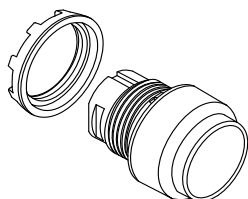
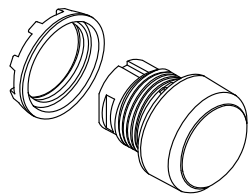


Flush and extended pushbuttons

Non-illuminated

Momentary and maintained

8



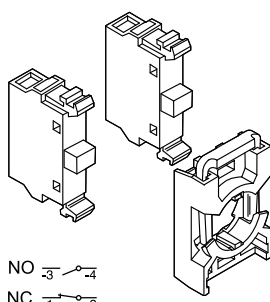
Bezel in black plastic as standard

Bezel in metal:

Replace '1' in the:

Cat No. MPX-1 0X

3 for metal bezel



NO $\overline{3}$ $\overline{4}$
NC $\overline{1}$ $\overline{2}$

Operator ...

Description	Catalog No.	Ref. Code	List Price
with flush button			
Momentary			
Red	MP1-10R	1SFA 611 100 R1001	\$ 6.10
Green	MP1-10G	1SFA 611 100 R1002	
Yellow	MP1-10Y	1SFA 611 100 R1003	
Blue	MP1-10L	1SFA 611 100 R1004	
White	MP1-10W	1SFA 611 100 R1005	
Black	MP1-10B	1SFA 611 100 R1006	
Clear	MP1-10C	1SFA 611 100 R1008	
Maintained			
Red	MP2-10R	1SFA 611 101 R1001	17.30
Green	MP2-10G	1SFA 611 101 R1002	
Yellow	MP2-10Y	1SFA 611 101 R1003	
Blue	MP2-10L	1SFA 611 101 R1004	
White	MP2-10W	1SFA 611 101 R1005	
Black	MP2-10B	1SFA 611 101 R1006	
Clear	MP2-10C	1SFA 611 101 R1008	
with extended button			
Momentary			
Red	MP3-10R	1SFA 611 102 R1001	6.10
Green	MP3-10G	1SFA 611 102 R1002	
Yellow	MP3-10Y	1SFA 611 102 R1003	
Blue	MP3-10L	1SFA 611 102 R1004	
White	MP3-10W	1SFA 611 102 R1005	
Black	MP3-10B	1SFA 611 102 R1006	
Clear	MP3-10C	1SFA 611 102 R1008	
Maintained			
Red	MP4-10R	1SFA 611 103 R1001	17.30
Green	MP4-10G	1SFA 611 103 R1002	
Yellow	MP4-10Y	1SFA 611 103 R1003	
Blue	MP4-10L	1SFA 611 103 R1004	
White	MP4-10W	1SFA 611 103 R1005	
Black	MP4-10B	1SFA 611 103 R1006	
Clear	MP4-10C	1SFA 611 103 R1008	

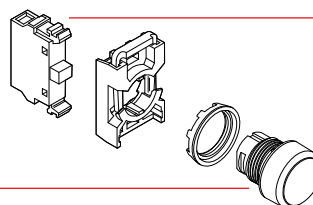
Contact blocks, and holder

Blocks	Catalog No.	Ref. Code	List Price
1 NO with holder	MCBH-10	1SFA 611 605 R1101	\$ 10.00
1 NC with holder	MCBH-01	1SFA 611 605 R1110	10.00
2 NO with holder	MCBH-20	1SFA 611 605 R1102	18.00
2 NC with holder	MCBH-02	1SFA 611 605 R1120	18.00
1 NO + 1 NC with holder	MCBH-11	1SFA 611 605 R1111	18.00
1 NO without holder	MCB-10	1SFA 611 610 R1001	8.00
1 NC without holder	MCB-01	1SFA 611 610 R1010	8.00
Holder for 3 blocks	MCBH-00	1SFA 611 605 R1100	2.00

Ordering example

Requested: A modular pushbutton, momentary, with red flush button and one NO contact.

Ref.: 1 piece of MP1-10R + 1 piece of MCBH-10



Flush and extended pushbuttons

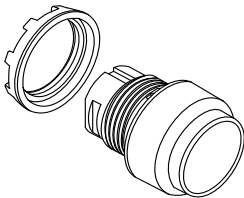
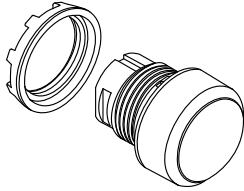
Illuminated

Momentary and maintained

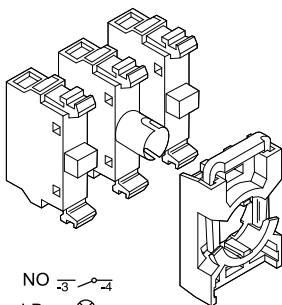
Pilot Devices
Modular Range
22mm

8

Bulb max 1.2 W



Bezel in black plastic as standard
Bezel in metal:
Replace '1' in the
Catalog No. MPX-1 0X
3 for metal bezel



NO $\frac{3}{1} \rightarrow 4$
LB $\frac{1}{2} \rightarrow \frac{2}{1}$
NC $\frac{1}{2} \rightarrow 4$

Operator ...

Description	Catalog No.	Ref. Code	List Price
with flush button			
Momentary ①			
Red	MP1-11R	1SFA 611 100 R1101	\$ 6.10
Green	MP1-11G	1SFA 611 100 R1102	
Yellow	MP1-11Y	1SFA 611 100 R1103	
Blue	MP1-11L	1SFA 611 100 R1104	
White	MP1-11W	1SFA 611 100 R1105	
Clear	MP1-11C	1SFA 611 100 R1108	
Maintained ①③			
Red	MP2-11R	1SFA 611 101 R1101	17.30
Green	MP2-11G	1SFA 611 101 R1102	
Yellow	MP2-11Y	1SFA 611 101 R1103	
Blue	MP2-11L	1SFA 611 101 R1104	
White	MP2-11W	1SFA 611 101 R1105	
Clear	MP2-11C	1SFA 611 101 R1108	
with extended button			
Momentary ①			
Red	MP3-11R	1SFA 611 102 R1101	6.10
Green	MP3-11G	1SFA 611 102 R1102	
Yellow	MP3-11Y	1SFA 611 102 R1103	
Blue	MP3-11L	1SFA 611 102 R1104	
White	MP3-11W	1SFA 611 102 R1105	
Clear	MP3-11C	1SFA 611 102 R1108	
Maintained ①③			
Red	MP4-11R	1SFA 611 103 R1101	17.30
Green	MP4-11G	1SFA 611 103 R1102	
Yellow	MP4-11Y	1SFA 611 103 R1103	
Blue	MP4-11L	1SFA 611 103 R1104	
White	MP4-11W	1SFA 611 103 R1105	
Clear	MP4-11C	1SFA 611 103 R1108	

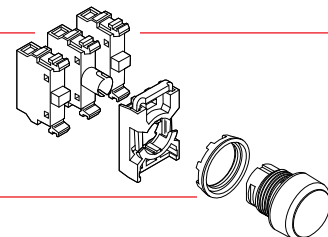
Contact blocks, lamp block and holder ②

Blocks	Catalog No.	Ref. Code	List Price
1 NO + 1 LB with holder	MCBH-101	1SFA 611 605 R1201	\$ 27.50
1 NC + 1 LB with holder	MCBH-011	1SFA 611 605 R1210	27.50
2 NO + 1 LB with holder	MCBH-201	1SFA 611 605 R1202	35.50
2 NC + 1 LB with holder	MCBH-021	1SFA 611 605 R1220	35.50
1 NO + 1 NC + 1 LB with holder	MCBH-111	1SFA 611 605 R1211	35.50
1 NO without holder	MCB-10	1SFA 611 610 R1001	8.00
1 NC without holder	MCB-01	1SFA 611 610 R1010	8.00
Lamp block for 2 W, max 230 V AC/DC bulb or LED	MLB-1	1SFA 611 620 R1001	17.50
Holder for 3 blocks	MCBH-00	1SFA 611 605 R1100	2.00

Ordering example

Requested: A modular pushbutton, maintained and illuminated with green flush button and one NO + one NC contact.

Ref.: 1 piece of MP2-11G + 1 piece of MCBH-111
Bulb - see accessories



- ① No contact block in the center position, reserved for lamp block
- ② Lamp block MLB-1. Bulb not included. For other lamp blocks see Accessories.
- ③ Bulb max 1.2 W, not included.

Double pushbuttons Non-illuminated

Operator ...

Upper button		Lower button		Catalog No.	Ref. Code	List Price
Color	Text	Color	Text			
with flush buttons ①						
Green	No text	Red	No text	MPD1-11B	1SFA 611 130 R1106	\$ 18.00
	I		O	MPD2-11B	1SFA 611 131 R1106	21.00
	ON		OFF	MPD3-11B	1SFA 611 132 R1106	21.00
	START		STOP	MPD4-11B	1SFA 611 133 R1106	21.00
White	No text	Black	No text	MPD5-11B	1SFA 611 134 R1106	18.00
	I		O	MPD6-11B	1SFA 611 135 R1106	21.00
	ON		OFF	MPD7-11B	1SFA 611 136 R1106	21.00
	START		STOP	MPD8-11B	1SFA 611 137 R1106	21.00
with extended lower button ①						
Green	No text	Red	No text	MPD12-11B	1SFA 611 141 R1106	18.00
	I		O	MPD13-11B	1SFA 611 142 R1106	21.00
	ON		OFF	MPD14-11B	1SFA 611 143 R1106	21.00
	START		STOP	MPD15-11B	1SFA 611 144 R1106	21.00
White	No text	Black	No text	MPD16-11B	1SFA 611 145 R1106	18.00
	I		O	MPD17-11B	1SFA 611 146 R1106	21.00
	ON		OFF	MPD18-11B	1SFA 611 147 R1106	21.00
	START		STOP	MPD19-11B	1SFA 611 148 R1106	21.00

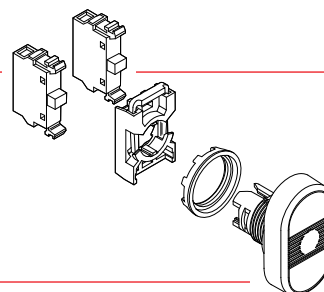
Contact blocks, and holder

Blocks	Catalog No.	Ref. Code	List Price
2 NO with holder	MCBH-20	1SFA 611 605 R1102	\$ 18.00
2 NC with holder	MCBH-02	1SFA 611 605 R1120	
1 NO + 1 NC with holder	MCBH-11	1SFA 611 605 R1111	
1 NO without holder	MCB-10	1SFA 611 610 R1001	8.00
1 NC without holder	MCB-01	1SFA 611 610 R1010	8.00
Holder for 3 blocks	MCBH-00	1SFA 611 605 R1100	2.00

Ordering example – Double pushbutton

Requested: A non-illuminated double pushbutton, Green/Red,
No text, with 2 NO blocks

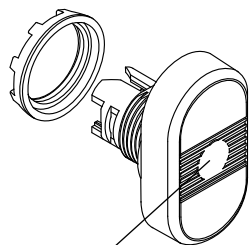
Ref.: 1 piece of MPD1-11B + 1 piece of MCBH-20



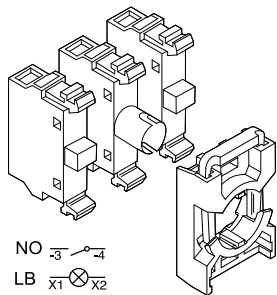
① No contact block in the center position.

Double pushbuttons Illuminated

Pilot Devices
Modular Range
22mm



Lens colors:
Red
Green
Yellow
Clear



NO $\overline{3}$ $\overline{4}$
LB $\overline{X1}$ $\overline{X2}$
NC $\overline{1}$ $\overline{2}$

Operator ...

Upper button		Lower button		Catalog No.	Ref. Code	List Price
Color	Text	Color	Text			
with flush buttons ①						
Red lens						
Green	No text	Red	No text	MPD1-11R	1SFA 611 130 R1101	\$ 26.00
	I		O	MPD2-11R	1SFA 611 131 R1101	
	ON		OFF	MPD3-11R	1SFA 611 132 R1101	
	START		STOP	MPD4-11R	1SFA 611 133 R1101	
White	No text	Black	No text	MPD5-11R	1SFA 611 134 R1101	26.00
	I		O	MPD6-11R	1SFA 611 135 R1101	
	ON		OFF	MPD7-11R	1SFA 611 136 R1101	
	START		STOP	MPD8-11R	1SFA 611 137 R1101	
Green lens						
Green	No text	Red	No text	MPD1-11G	1SFA 611 130 R1102	26.00
	I		O	MPD2-11G	1SFA 611 131 R1102	
	ON		OFF	MPD3-11G	1SFA 611 132 R1102	
	START		STOP	MPD4-11G	1SFA 611 133 R1102	
White	No text	Black	No text	MPD5-11G	1SFA 611 134 R1102	26.00
	I		O	MPD6-11G	1SFA 611 135 R1102	
	ON		OFF	MPD7-11G	1SFA 611 136 R1102	
	START		STOP	MPD8-11G	1SFA 611 137 R1102	
Yellow lens						
Green	No text	Red	No text	MPD1-11Y	1SFA 611 130 R1103	26.00
	I		O	MPD2-11Y	1SFA 611 131 R1103	
	ON		OFF	MPD3-11Y	1SFA 611 132 R1103	
	START		STOP	MPD4-11Y	1SFA 611 133 R1103	
White	No text	Black	No text	MPD5-11Y	1SFA 611 134 R1103	26.00
	I		O	MPD6-11Y	1SFA 611 135 R1103	
	ON		OFF	MPD7-11Y	1SFA 611 136 R1103	
	START		STOP	MPD8-11Y	1SFA 611 137 R1103	
Clear lens						
Green	No text	Red	No text	MPD1-11C	1SFA 611 130 R1108	26.00
	I		O	MPD2-11C	1SFA 611 131 R1108	
	ON		OFF	MPD3-11C	1SFA 611 132 R1108	
	START		STOP	MPD4-11C	1SFA 611 133 R1108	
White	No text	Black	No text	MPD5-11C	1SFA 611 134 R1108	26.00
	I		O	MPD6-11C	1SFA 611 135 R1108	
	ON		OFF	MPD7-11C	1SFA 611 136 R1108	
	START		STOP	MPD8-11C	1SFA 611 137 R1108	

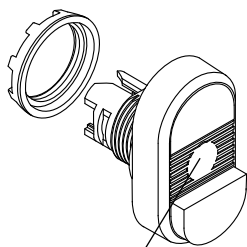
Contact blocks, lamp block and holder ②

Blocks	Catalog No.	Ref. Code	List Price
2 NO + 1 LB with holder	MCBH-201	1SFA 611 605 R1202	\$ 35.50
2 NC + 1 LB with holder	MCBH-021	1SFA 611 605 R1220	
1 NO + 1 NC + 1 LB with holder	MCBH-111	1SFA 611 605 R1211	
1 NO without holder	MCB-10	1SFA 611 610 R1001	8.00
1 NC without holder	MCB-01	1SFA 611 610 R1010	8.00
Lamp block for 2 W, max 230 V AC/DC bulb or LED	MLB-1	1SFA 611 620 R1001	17.50
Holder for 3 blocks	MCBH-00	1SFA 611 605 R1100	2.00

① No contact block in the center position, reserved for lamp block.

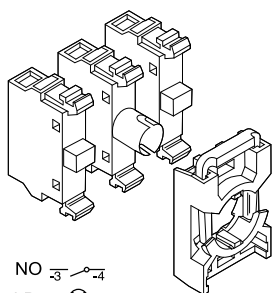
② Lamp block MLB-1. Bulb not included. For other lamp blocks see Accessories, bulb max 1.2 W.

Double pushbuttons Illuminated



Lens colors:
Red
Green
Yellow
Clear

8



NO $\overline{3}$ $\overline{4}$
LB $\overline{x1}$ $\overline{x2}$
NC $\overline{1}$ $\overline{2}$

Operator ...

Upper button		Lower button		Catalog No.	Ref. Code	List Price
Color	Text	Color	Text			

with extended lower button ①

Red lens

Green	No text	Red	No text	MPD12-11R	1SFA 611 141 R1101	\$ 26.00
	I		O	MPD13-11R	1SFA 611 142 R1101	29.00
	ON		OFF	MPD14-11R	1SFA 611 143 R1101	29.00
	START		STOP	MPD15-11R	1SFA 611 144 R1101	29.00
White	No text	Black	No text	MPD16-11R	1SFA 611 145 R1101	26.00
	I		O	MPD17-11R	1SFA 611 146 R1101	29.00
	ON		OFF	MPD18-11R	1SFA 611 147 R1101	29.00
	START		STOP	MPD19-11R	1SFA 611 148 R1101	29.00

Green lens

Green	No text	Red	No text	MPD12-11G	1SFA 611 141 R1102	26.00
	I		O	MPD13-11G	1SFA 611 142 R1102	29.00
	ON		OFF	MPD14-11G	1SFA 611 143 R1102	29.00
	START		STOP	MPD15-11G	1SFA 611 144 R1102	29.00
White	No text	Black	No text	MPD16-11G	1SFA 611 145 R1102	26.00
	I		O	MPD17-11G	1SFA 611 146 R1102	29.00
	ON		OFF	MPD18-11G	1SFA 611 147 R1102	29.00
	START		STOP	MPD19-11G	1SFA 611 148 R1102	29.00

Yellow lens

Green	No text	Red	No text	MPD12-11Y	1SFA 611 141 R1103	26.00
	I		O	MPD13-11Y	1SFA 611 142 R1103	29.00
	ON		OFF	MPD14-11Y	1SFA 611 143 R1103	29.00
	START		STOP	MPD15-11Y	1SFA 611 144 R1103	29.00
White	No text	Black	No text	MPD16-11Y	1SFA 611 145 R1103	26.00
	I		O	MPD17-11Y	1SFA 611 146 R1103	29.00
	ON		OFF	MPD18-11Y	1SFA 611 147 R1103	29.00
	START		STOP	MPD19-11Y	1SFA 611 148 R1103	29.00

Clear lens

Green	No text	Red	No text	MPD12-11C	1SFA 611 141 R1108	26.00
	I		O	MPD13-11C	1SFA 611 142 R1108	29.00
	ON		OFF	MPD14-11C	1SFA 611 143 R1108	29.00
	START		STOP	MPD15-11C	1SFA 611 144 R1108	29.00
White	No text	Black	No text	MPD16-11C	1SFA 611 145 R1108	26.00
	I		O	MPD17-11C	1SFA 611 146 R1108	29.00
	ON		OFF	MPD18-11C	1SFA 611 147 R1108	29.00
	START		STOP	MPD19-11C	1SFA 611 148 R1108	29.00

Contact blocks, lamp block and holder ②

Blocks	Catalog No.	Ref. Code	List Price
2 NO + 1 LB with holder	MCBH-201	1SFA 611 605 R1202	\$ 35.50
2 NC + 1 LB with holder	MCBH-021	1SFA 611 605 R1220	35.50
1 NO + 1 NC + 1 LB with holder	MCBH-111	1SFA 611 605 R1211	35.50
1 NO without holder	MCB-10	1SFA 611 610 R1001	8.00
1 NC without holder	MCB-01	1SFA 611 610 R1010	8.00
Lamp block for 2 W, max 230 V AC/DC bulb or LED	MLB-1	1SFA 611 620 R1001	17.50
Holder for 3 blocks	MCBH-00	1SFA 611 605 R1100	2.00

① No contact block in the center position, reserved for lamp block.

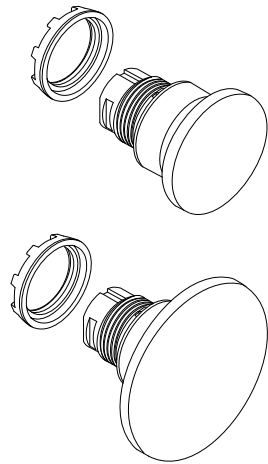
② Lamp block MLB-1. Bulb not included. Other lamp block see Accessories, bulb max 1.2 W.

Mushroom pushbuttons

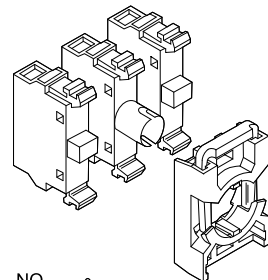
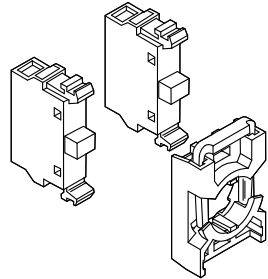
Non-illuminated and illuminated

Momentary

Pilot Devices
Modular Range
22mm



Bezel in black plastic as standard
Bezel in metal:
 Replace '1' in the:
 Catalog No. MPMX-1 0X
 Ref. Code 1SFA611XXX R 1XXX
 3 for metal bezel



NO $\frac{1}{3} \rightarrow \frac{4}{4}$
 LB $\frac{1}{X1} \otimes \frac{2}{X2}$
 NC $\frac{1}{1} \rightarrow \frac{2}{2}$

Operator ...

Operator material	Button color	Catalog No.	Ref. Code	List Price
non-illuminated				
Ø 40 mm				
Plastic	Red	MPM1-10R	1SFA 611 124 R1001	\$ 16.00
	Yellow	MPM1-10Y	1SFA 611 124 R1003	16.00
	Black	MPM1-10B	1SFA 611 124 R1006	16.00
Ø 60 mm				
Plastic	Red	MPM2-10R	1SFA 611 125 R1001	20.00
	Yellow	MPM2-10Y	1SFA 611 125 R1003	20.00
	Black	MPM2-10B	1SFA 611 125 R1006	20.00
illuminated ①				
Ø 40 mm				
Plastic	Green	MPM1-11G	1SFA 611 124 R1102	16.00
	Red	MPM1-11R	1SFA 611 124 R1101	15.50
	Yellow	MPM1-11Y	1SFA 611 124 R1103	15.50
Ø 60 mm				
Plastic	Red	MPM2-11R	1SFA 611 125 R1101	20.00
	Yellow	MPM2-11Y	1SFA 611 125 R1103	20.00

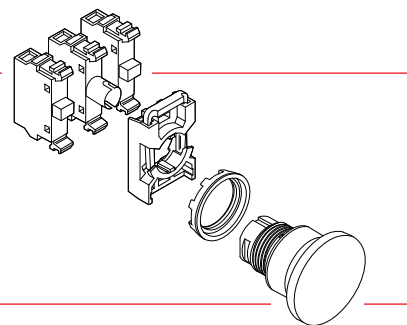
Contact blocks, lamp block and holder ②

Blocks	Catalog No.	Ref. Code	List Price
1 NO with holder	MCBH-10	1SFA 611 605 R1101	\$ 10.00
1 NC with holder	MCBH-01	1SFA 611 605 R1110	10.00
2 NO with holder	MCBH-20	1SFA 611 605 R1102	18.00
2 NC with holder	MCBH-02	1SFA 611 605 R1120	18.00
1 NO + 1 NC with holder	MCBH-11	1SFA 611 605 R1111	18.00
1 NO + 1 LB with holder	MCBH-101	1SFA 611 605 R1201	27.50
1 NC + 1 LB with holder	MCBH-011	1SFA 611 605 R1210	27.50
2 NO + 1 LB with holder ③	MCBH-201	1SFA 611 605 R1202	35.50
2 NC + 1 LB with holder	MCBH-021	1SFA 611 605 R1220	35.50
1 NO + 1 NC + 1 LB with holder	MCBH-111	1SFA 611 605 R1211	35.50
1 NO without holder	MCB-10	1SFA 611 610 R1001	8.00
1 NC without holder	MCB-01	1SFA 611 610 R1010	8.00
Lamp block for 2 W, max 230 V AC/DC bulb or LED	MLB-1	1SFA 611 620 R1001	17.50
Holder for 3 blocks	MCBH-00	1SFA 611 605 R1100	2.00

Ordering example – Mushroom Pushbutton

Requested: A modular mushroom pushbutton, Ø 40 mm, illuminated, red, with one NO + one NC contact and a standard lamp block

Ref.: 1 piece of MPM1-11R + 1 piece of MCBH-111
 Bulb - see accessories



① No contact block in the center position, reserved for lamp block.

② Lamp block MLB-1. Bulb not included. Other lamp block see Accessories, bulb max 1.2 W.

Emergency stop pushbuttons

Non-illuminated, 30mm & 40mm head

Fulfills IEC 60947-5-5

Operator

Operator function	Button color and material	Catalog No.	Ref. Code	List Price
Non-illuminated ø 30mm				
Twist release	Red, plastic	MPET3-10R	1SFA611520R1001	\$ 26.00
Pull release	Red, plastic	MPEP3-10R	1SFA611521R1001	26.00
Key release				
(Key code 71, Ronis 455)	Red, plastic	MPEK3-11R	1SFA611522R1101	40.00
(Key code 72, Ronis 421)	Red, plastic	MPEK3-12R	1SFA611522R1201	40.00
(Key code 73, Ronis 3433-E)	Red, plastic	MPEK3-13R	1SFA611522R1301	40.00
Non-illuminated ø 40mm				
Twist release	Red, plastic	MPET4-10R	1SFA611523R1001	30.00
Pull release	Red, plastic	MPEP4-10R	1SFA611524R1001	30.00
Key release				
(Key code 71, Ronis 455)	Red, plastic	MPEK4-11R	1SFA611525R1101	48.00
(Key code 72, Ronis 421)	Red, plastic	MPEK4-12R	1SFA611525R1201	48.00
(Key code 73, Ronis 3433-E)	Red, plastic	MPEK4-13R	1SFA611525R1301	48.00

Contact blocks and holder

Blocks	Catalog No.	Ref. Code	List Price
1 NO with holder	MCBH-10	1SFA 611 605 R1101	\$ 10.00
1 NC with holder	MCBH-01	1SFA 611 605 R1110	10.00
2 NO with holder	MCBH-20	1SFA 611 605 R1102	18.00
2 NC with holder	MCBH-02	1SFA 611 605 R1120	18.00
1 NO + 1 NC with holder	MCBH-11	1SFA 611 605 R1111	18.00
1 NO without holder	MCB-10	1SFA 611 610 R1001	8.00
1 NC without holder	MCB-01	1SFA 611 610 R1010	8.00

To comply with the standard, IEC 60947-5-5, a number of tests have to be conducted:

Durability test	6,050 cycles. This is not a test of mechanical life. The product has a mechanical life of 100,000 operations.	Latching test	Impulse voltage test at 2,500 V
Robustness	The force 113 N applied in three axes	Resetting test	Pulling force < 50 N Turning torque < 1 Nm
Conditioning	Heat and cold, moist atmosphere, and in 5 % NaC	Shock	15 g shock
		Vibration	2 h at 50m/s ²
		Contacts with positive opening operation	15 g shock

NO 
LB 
NC 

Emergency stop pushbuttons

Non-illuminated and illuminated, 40mm & 60mm head

Pilot Devices
Modular Range
22mm

Fulfills IEC 60947-5-5

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Operator ...

Operator function	Button color and material	Catalog No.	Ref. Code	List Price
Non-illuminated				
Ø 40 mm				
Twist release	Red, plastic	MPMT3-10R	1SFA 611 510 R1001	\$ 34.00
Pull release	Red, plastic	MPMP3-10R	1SFA 611 511 R1001	
Twist release	Black, plastic	MPMT3-10B	1SFA 611 510 R1006	
Pull release	Black, plastic	MPMP3-10B	1SFA 611 511 R1006	
Ø 60 mm				
Twist release	Red, plastic	MPMT4-10R	1SFA 611 510 R1006	46.00
Pull release	Red, plastic	MPMP4-10R	1SFA 611 511 R1006	
illuminated ⓘ				
Ø 40 mm				
Twist release	Red, plastic	MPMT3-11R	1SFA 611 510 R1101	34.00
Pull release	Red, plastic	MPMP3-11R	1SFA 611 511 R1101	
Ø 60 mm				
Twist release	Red, plastic	MPMT4-11R	1SFA 611 513 R1101	46.00
Pull release	Red, plastic	MPMP4-11R	1SFA 611 514 R1101	

For compact E-Stops, see page 8.31.

Contact blocks, lamp block and holder ②

Blocks	Catalog No.	Ref. Code	List Price
1 NO with holder	MCBH-10	1SFA 611 605 R1101	\$ 10.00
1 NC with holder	MCBH-01	1SFA 611 605 R1110	10.00
2 NO with holder	MCBH-20	1SFA 611 605 R1102	18.00
2 NC with holder	MCBH-02	1SFA 611 605 R1120	18.00
1 NO + 1 NC with holder	MCBH-11	1SFA 611 605 R1111	18.00
1 NO + 1 LB with holder	MCBH-101	1SFA 611 605 R1201	27.50
1 NC + 1 LB with holder	MCBH-011	1SFA 611 605 R1210	27.50
2 NO + 1 LB with holder	MCBH-201	1SFA 611 605 R1202	35.50
2 NC + 1 LB with holder	MCBH-021	1SFA 611 605 R1220	35.50
1 NO + 1 NC + 1 LB with holder	MCBH-111	1SFA 611 605 R1211	35.50
1 NO without holder	MCB-10	1SFA 611 610 R1001	8.00
1 NC without holder	MCB-01	1SFA 611 610 R1010	8.00
Lamp block for 2 W, max 230 V AC/DC bulb or LED	MLB-1	1SFA 611 620 R1001	17.50
Holder for 3 blocks	MCBH-00	1SFA 611 605 R1100	2.00

To comply with the standard, IEC 60947-5-5, a number of tests have to be conducted:

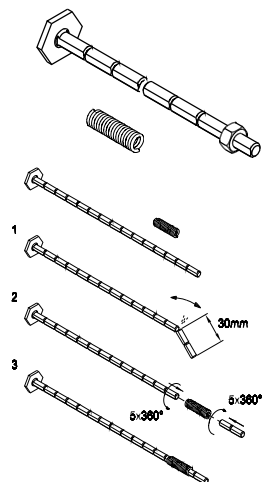
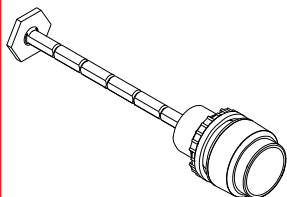
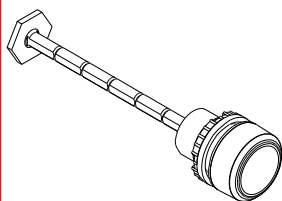
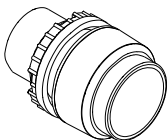
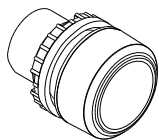
Durability test	6,050 cycles. This is not a test of mechanical life. The product has a mechanical life of 100,000 operations.	Latching test	Impulse voltage test at 2,500 V
Robustness	The force 113 N applied in three axes	Resetting test	Pulling force < 50 N Turning torque < 1 Nm
Conditioning	Heat and cold, moist atmosphere, and in 5 % NaC	Shock	15 g shock
		Vibration	2 h at 50m/s ²
		Contacts with positive opening operation	15 g shock

① No contact in the center position

② Lamp block MLB-1. Bulb not included. Other lamp block see Accessories, bulb max 2 W.

Reset pushbuttons

8



Reset pushbutton without shaft

Lens Color	Text	Catalog No.	Ref. Code	List Price
With flush button				
Red	No text	KPR1-100R	1SFA 616 160 R1001	\$ 8.50
Green	No text	KPR1-100G	1SFA 616 160 R1002	8.50
	II	KPR1-103G	1SFA 616 160 R1032	8.50
Yellow	No text	KPR1-100Y	1SFA 616 160 R1003	8.50
Blue	No text	KPR1-100L	1SFA 616 160 R1004	8.50
	R	KPR1-101L	1SFA 616 160 R1014	8.50
White	No text	KPR1-100W	1SFA 616 160 R1005	8.50
	R	KPR1-101W	1SFA 616 160 R1015	8.50
	I	KPR1-102W	1SFA 616 160 R1025	8.50
	II	KPR1-103W	1SFA 616 160 R1035	8.50
Black	No text	KPR1-100B	1SFA 616 160 R1006	8.50
	RESET	KPR1-104B	1SFA 616 160 R1046	12.00

With extended button

Red	No text	KPR2-100R	1SFA 616 161 R1001	14.00
	O	KPR2-105R	1SFA 616 161 R1051	
White	No text	KPR2-100W	1SFA 616 161 R1005	
Black	No text	KPR2-100B	1SFA 616 161 R1006	
	O	KPR2-105B	1SFA 616 161 R1056	

Reset pushbutton with 180mm shaft The shaft can be cut to desired length

Lens Color	Text	Catalog No.	Ref. Code	List Price
With flush button				
Red	No text	KPR3-100R	1SFA 616 162 R1001	\$ 10.00
Green	No text	KPR3-100G	1SFA 616 162 R1002	10.00
	II	KPR3-103G	1SFA 616 162 R1032	11.00
Yellow	No text	KPR3-100Y	1SFA 616 162 R1003	11.00
Blue	No text	KPR3-100L	1SFA 616 162 R1004	10.00
	R	KPR3-101L	1SFA 616 162 R1014	11.00
White	No text	KPR3-100W	1SFA 616 162 R1005	10.00
	R	KPR3-101W	1SFA 616 162 R1015	11.00
	I	KPR3-102W	1SFA 616 162 R1025	11.00
	II	KPR3-103W	1SFA 616 162 R1035	11.00
Black	No text	KPR3-100B	1SFA 616 162 R1006	10.00
	RESET	KPR3-104B	1SFA 616 162 R1046	14
	RESET	KPR3-104BMR	(Reset w/metal shaft)	29.00

With extended button

Red	No text	KPR4-100R	1SFA 616 163 R1001	13.10
	O	KPR4-105R	1SFA 616 163 R1051	
White	No text	KPR4-100W	1SFA 616 163 R1005	
Black	No text	KPR4-100B	1SFA 616 163 R1006	
	O	KPR4-105B	1SFA 616 163 R1056	

Accessories

In applications with a long shaft, a flexible joint can be used to avoid damage to the shaft.

Description	Catalog No.	Ref. Code	List Price
180mm Shaft Including fixing nut	KA1-8046	1SFA 616 920 R8046	\$ 2.25
Spring joint	KA1-8047	1SFA 616 920 R8047	5.00
240mm Metal shaft Including fixing nut & foot	KA1-8046MR	—	12.00