Pilot devices
Modular plastic range

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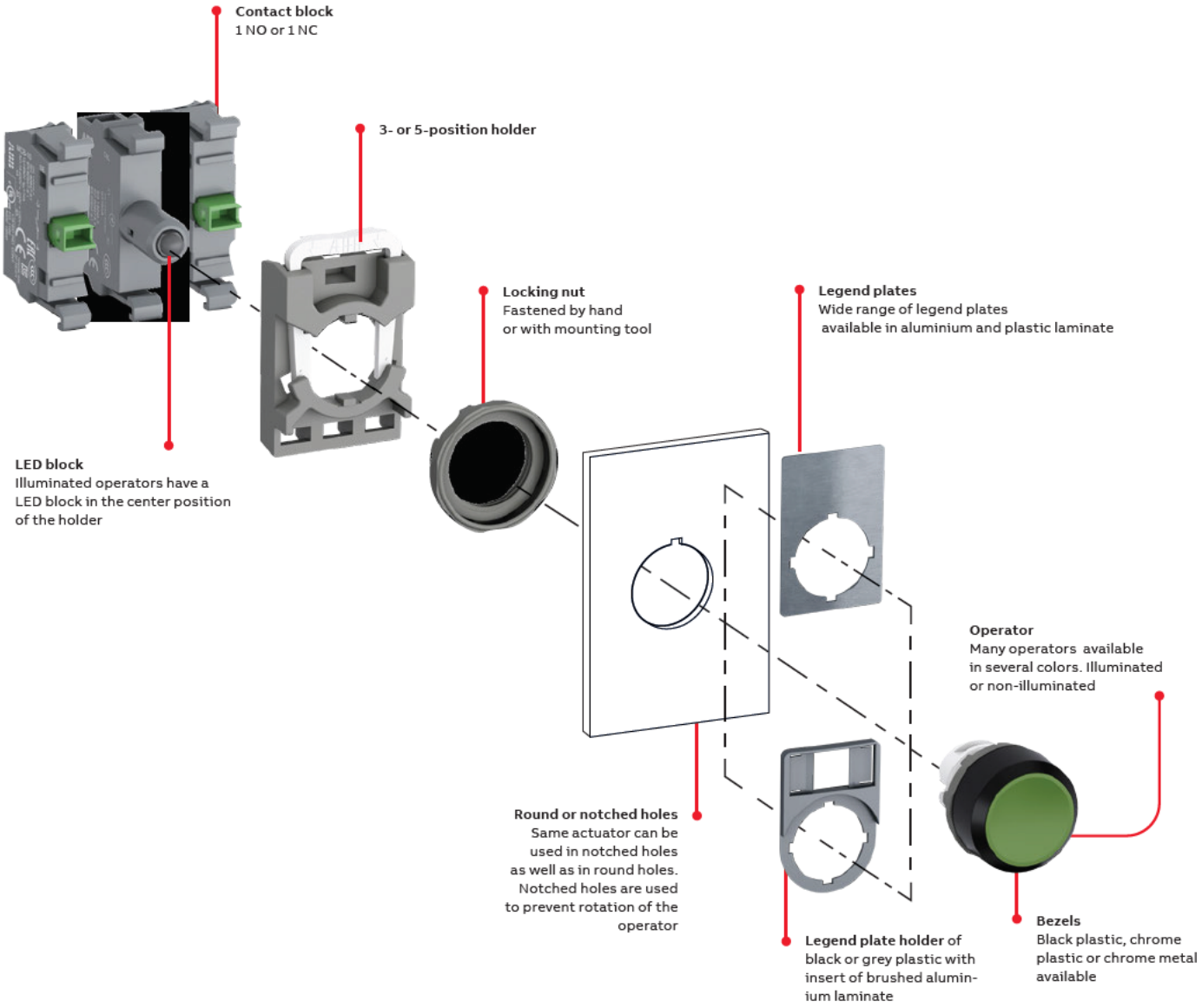
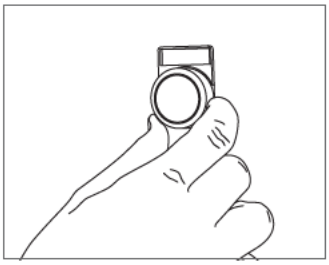
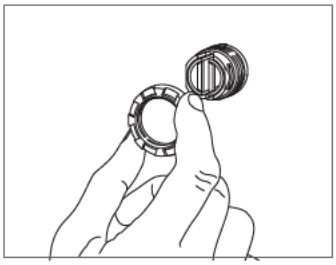
Modular plastic range



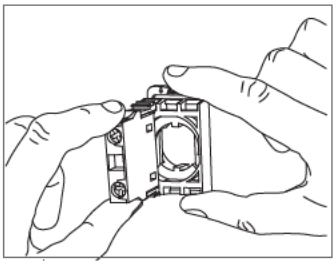
Easy to install



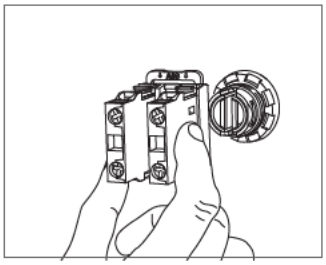
The operator is to be inserted from the front...



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

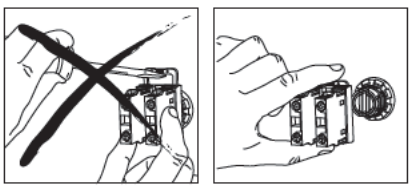


The contact blocks/LED block are then snapped on to the holder...



...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

1SFC151003S0201

Modular plastic range

Non-illuminated flush pushbuttons

1SFC151004V0001

MP1-10R

1SFC151016V0001

MP1-10Y

1SFC151031V0001

MP1-30L

1SFC151015V0001

MP2-10G

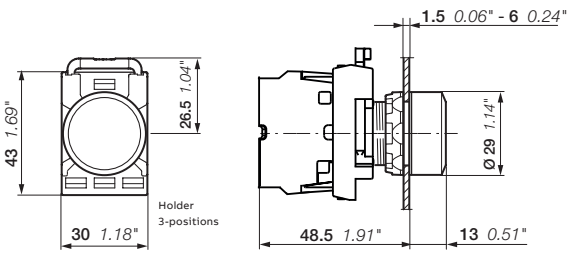
1SFC151018V0001

MP2-10W

1SFC151029V0001

MP2-20B

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



MP1, MP2

Dimensions (mm, inches)

Modular plastic range

Non-illuminated extended pushbuttons

1SFC151006V0001

MP3-10R

1SFC151028V0001

MP3-20Y

1SFC151013V0001

MP3-10W

1SFC151353V0001

MP3-10C

1SFC151012V0001

MP4-10G

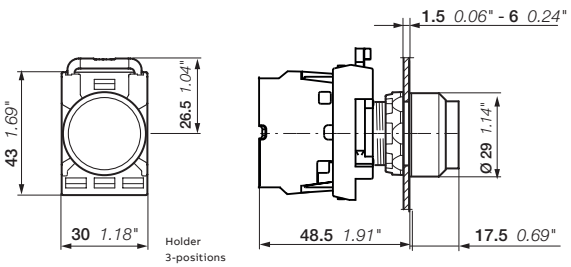
1SFC151019V0001

MP4-10L

1SFC151011V0001

MP4-10B

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



MP3, MP4

Dimensions (mm, inches)

1SFC151005S0201

Modular plastic range

Illuminated flush pushbuttons

1SFC151048V0001

MP1-31G

1SFC151042V0001

MP1-11Y

1SFC151045V0001

MP1-21L

1SFC151046V0001

MP2-31R

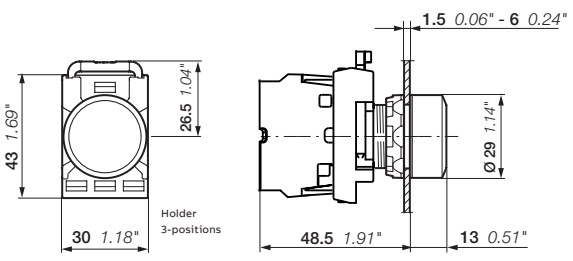
1SFC151040V0001

MP2-11L

1SFC151046V0001

MP2-11C

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



MP1, MP2

Dimensions (mm, inches)

Modular plastic range

Illuminated extended pushbuttons

MP3-11R

MP3-31G

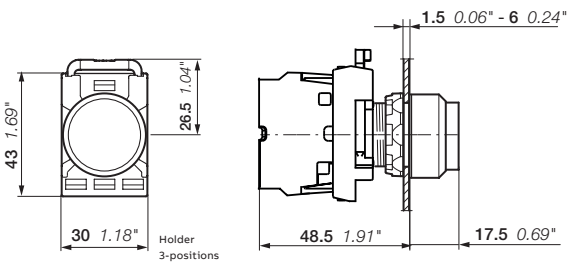
MP3-11W

MP4-11Y

MP4-31L

MP4-21C

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



MP3, MP4

Dimensions (mm, inches)

Modular plastic range

Non-illuminated double pushbuttons momentary

1SFC151050V0001

MPD1-11B

1SFC151051V0001

MPD5-11B

1SFC151056V0001

MPD13-11B

1SFC151058V0001

MPD15-11B

1SFC151341F0001

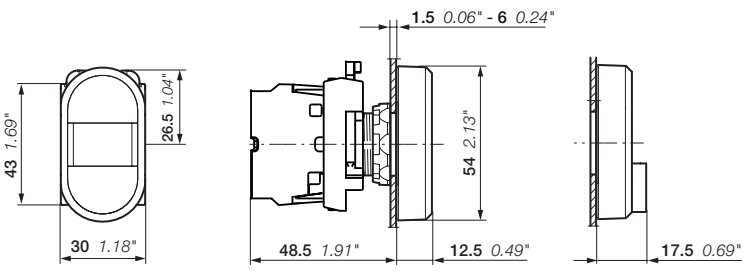
MA1-8139

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

Accessories

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

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



MPD

Dimensions (mm, inches)

1SFC151008S0201

Modular plastic range

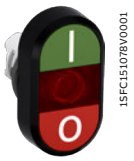
Illuminated double pushbuttons momentary - Flush lower button

1SFC151088V0001

MPD4-11C

1SFC151100V0001

MPD5-11C



1SFC151078V0001

MPD2-11R

1SFC151083V0001

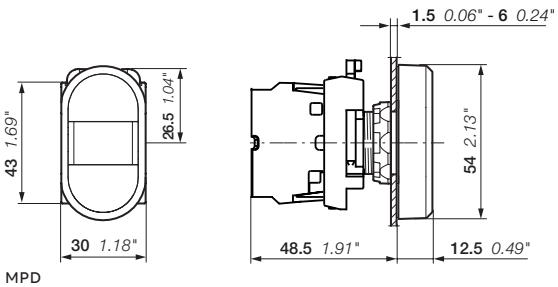
MDP3-11G

1SFC151341F0001

MA1-8139

Operator upper button	Operator lower button	Type	Order code	Pkg qty	Weight (1 pce) kg
Clear light indicator					
● **Green**	● **Red**				
No text	No text	MPD1-11C	1SFA611130R1108	10	0.025
I	0	MPD2-11C	1SFA611131R1108	10	0.025
ON	OFF	MPD3-11C	1SFA611132R1108	10	0.025
START	STOP	MPD4-11C	1SFA611133R1108	10	0.025
○ **White**	● **Black**				
No text	No text	MPD5-11C	1SFA611134R1108	10	0.025
I	0	MPD6-11C	1SFA611135R1108	10	0.025
START	STOP	MPD8-11C	1SFA611137R1108	10	0.025
Red light indicator					
● **Green**	● **Red**				
No text	No text	MPD1-11R	1SFA611130R1101	10	0.025
I	0	MPD2-11R	1SFA611131R1101	10	0.025
ON	OFF	MPD3-11R	1SFA611132R1101	10	0.025
START	STOP	MPD4-11R	1SFA611133R1101	10	0.025
○ **White**	● **Black**				
No text	No text	MPD5-11R	1SFA611134R1101	10	0.025
Green light indicator					
● **Green**	● **Red**				
No text	No text	MPD1-11G	1SFA611130R1102	10	0.025
I	0	MPD2-11G	1SFA611131R1102	10	0.025
ON	OFF	MPD3-11G	1SFA611132R1102	10	0.025
START	STOP	MPD4-11G	1SFA611133R1102	10	0.025
○ **White**	● **Black**				
No text	No text	MPD5-11G	1SFA611134R1102	10	0.025
I	0	MPD6-11G	1SFA611135R1102	10	0.025
ON	OFF	MPD7-11G	1SFA611136R1102	10	0.025
START	STOP	MPD8-11G	1SFA611137R1102	10	0.025
Yellow light indicator					
● **Green**	● **Red**				
No text	No text	MPD1-11Y	1SFA611130R1103	10	0.025
I	0	MPD2-11Y	1SFA611131R1103	10	0.025
ON	OFF	MPD3-11Y	1SFA611132R1103	10	0.025
START	STOP	MPD4-11Y	1SFA611133R1103	10	0.025
○ **White**	● **Black**				
No text	No text	MPD5-11Y	1SFA611134R1103	10	0.025
Accessories					
Legend plate holder					
2-position		MA1-8139	1SFA611920R8139	10	0.030

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



MPD

Dimensions (mm, inches)

Modular plastic range

Illuminated double pushbuttons momentary - Extended lower button

MPD12-11C

MPD14-11C

MDP13-11R

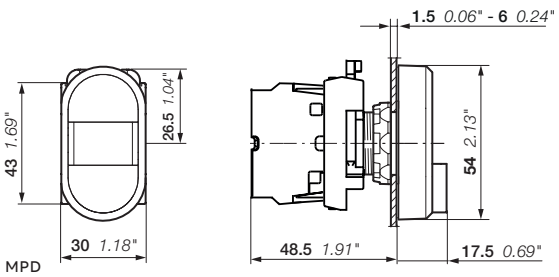
MDP14-11G

MDP12-11Y

MA1-8139

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

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



MPD

Dimensions (mm, inches)

Modular plastic range

Mushroom pushbuttons momentary

MPM1-10G

MPM1-10B

MPM2-10R

MPM2-10Y

Non illuminated

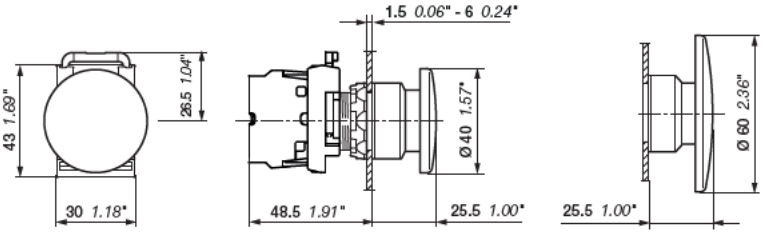
Operator	Type	Order code	Pkg qty	Weight (1 pce) kg
Ø 40 mm				
Red	MPM1-10R	1SFA611124R1001	10	0.018
Green	MPM1-10G	1SFA611124R1002	10	0.018
Yellow	MPM1-10Y	1SFA611124R1003	10	0.018
Black	MPM1-10B	1SFA611124R1006	10	0.018
Ø 60 mm				
Red	MPM2-10R	1SFA611125R1001	10	0.020
Yellow	MPM2-10Y	1SFA611125R1003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

MPM1-11G

MPM2-11R

Illuminated

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



MPM1, MPM2

Dimensions (mm, inches)

1SFC151010S0201

Modular plastic range

Emergency stop pushbuttons

MPET3-10R

MPEK3-11R

MPET4-10R

MPMP4-10R

Non illuminated

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

Operator	Release method	Type	Order code	Pkg qty	Weight (1 pce) kg
Ø 30 mm					
Red	Twist release	MPET3-10R	1SFA611520R1001	1	0.036
Red	Pull release	MPEP3-10R	1SFA611521R1001	1	0.036
Red	Key code 455	MPEK3-11R	1SFA611522R1101	1	0.065
Red	Key code 421	MPEK3-12R	1SFA611522R1201	1	0.065
Red	Key code 3433-E	MPEK3-13R	1SFA611522R1301	1	0.065
Ø 40 mm					
Red	Twist release	MPET4-10R	1SFA611523R1001	1	0.036
Red	Pull release	MPEP4-10R	1SFA611524R1001	1	0.036
Red	Key code 455	MPEK4-11R	1SFA611525R1101	1	0.065
Red	Key code 421	MPEK4-12R	1SFA611525R1201	1	0.065
Red	Key code 3433-E	MPEK4-13R	1SFA611525R1301	1	0.065
Ø 60 mm					
Red	Twist release	MPMT4-10R	1SFA611513R1001	1	0.048
Red	Pull release	MPMP4-10R	1SFA611514R1001	1	0.048

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

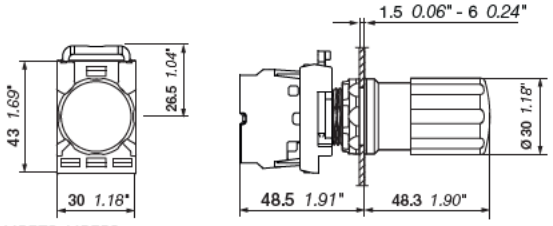
MPMP3-11R

MPMT4-11R

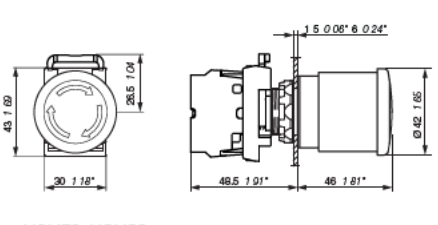
Illuminated

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

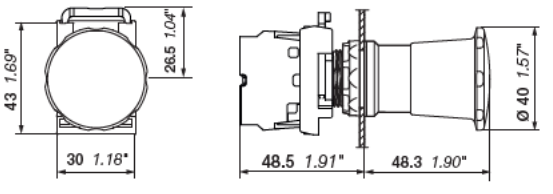
Note Micro switch block MCBL-01 are not direct opening and does not fulfill IEC60947-5-5 for emergency stop devices



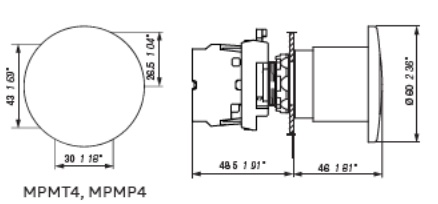
MPET3, MPEP3



MPMT3, MPMP3



MPET4, MPEP4



MPMT4, MPMP4

Dimensions (mm, inches)

1SFC151011S0201

Modular plastic range

Machine stop pushbuttons

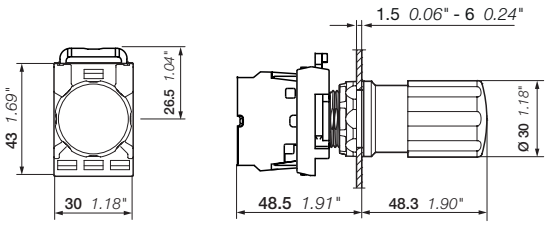
MPET3-10B

MPET4-10B

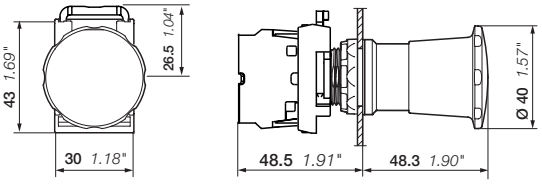
MPEK4-11B

Non illuminated

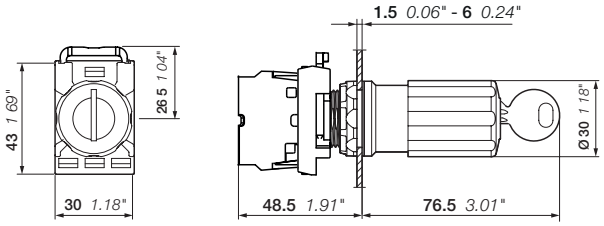
Operator	Release method	Type	Order code	Pkg qty	Weight (1 pce) kg
Ø 30 mm					
● Black	Twist release	MPET3-10B	1SFA611520R1006	1	0.036
● Black	Pull release	MPEP3-10B	1SFA611521R1006	1	0.036
● Black	Key code 455	MPEK3-11B	1SFA611522R1106	1	0.065
Ø 40 mm					
● Black	Twist release	MPET4-10B	1SFA611523R1006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



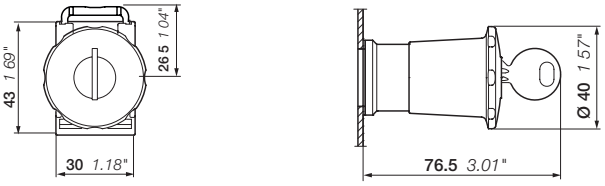
MPET3, MPEP3



MPET4, MPEP4



MPEK3



MPEK4

Dimensions (mm, inches)

Modular plastic range

Heavy duty pushbuttons

KP6-40R

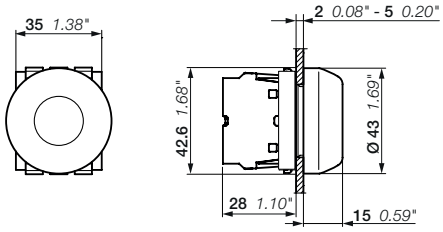
KP6-40G

KP6-40B

Description

For 30 mm mounting hole, 3-position holder included

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



KP6

Modular plastic range

Pilot lights

ML1-100R

ML1-100G

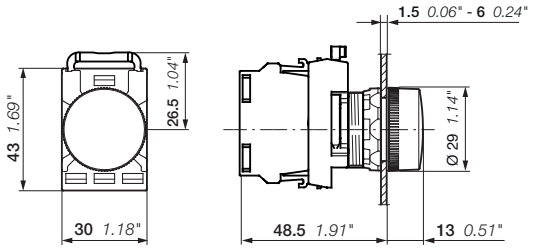
ML1-100Y

ML1-100C

ML1-100L

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

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



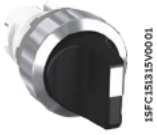
ML1

Dimensions (mm, inches)

Modular plastic range

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

M2SS1-10R

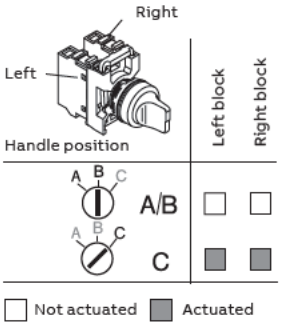


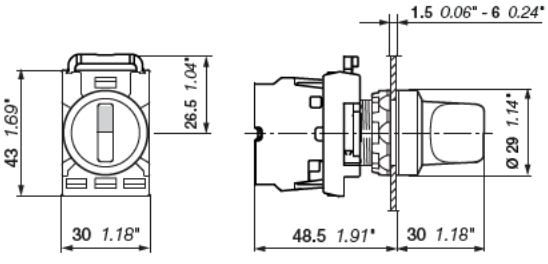
M2SS1-30B

M2SS1-10U

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

Contacts actuated





M2SS

Dimensions (mm, inches)

1SFC151013S0201

Modular plastic range

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

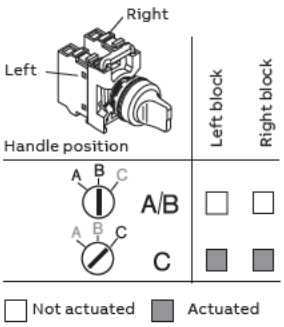
M2SS4-10R

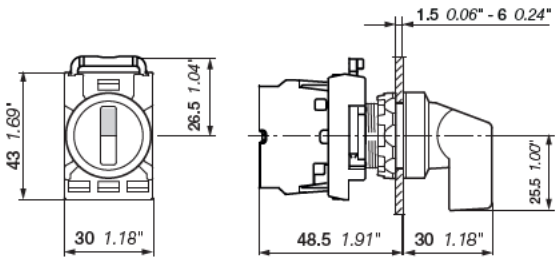
M2SS4-30B

M2SS4-10U

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

Contacts actuated





M2SS

Dimensions (mm, inches)

02

Modular plastic range

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

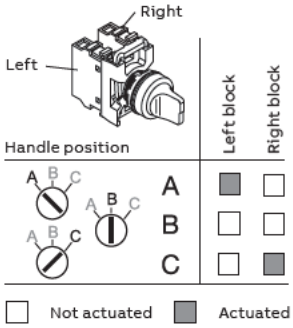
M3SS1-30R

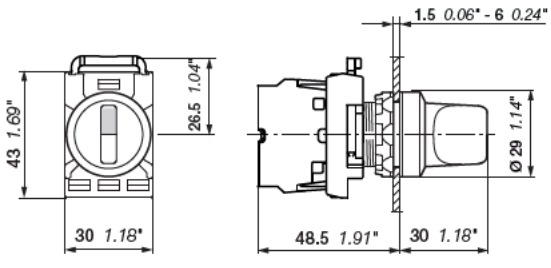
M3SS2-10B

M3SS3-10U

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

Contacts actuated





M3SS

Dimensions (mm, inches)

1SFC151015S0201

Modular plastic range

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

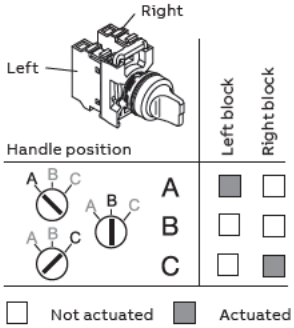
M3SS4-10R

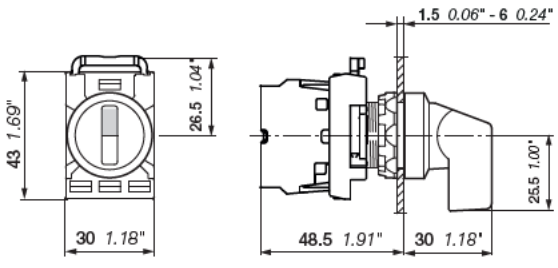
M3SS5-30B

M3SS6-10U

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

Contacts actuated





M3SS

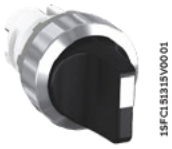
Dimensions (mm, inches)

02

Modular plastic range

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

M3SSC1-10B

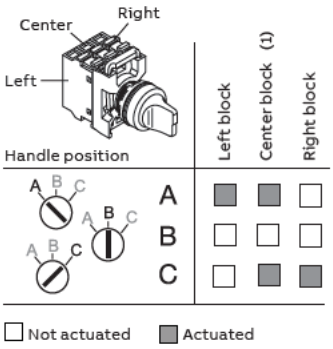


M3SSC3-30B

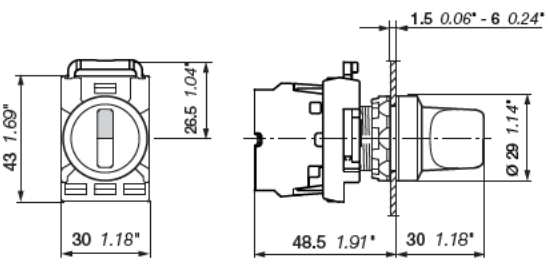
Center block operating

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

Contacts actuated



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



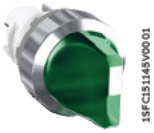
M3SSC

Dimensions (mm, inches)

Modular plastic range

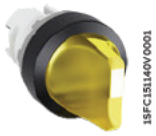
Illuminated selector switches - 2-position - Short handle

M2SS1-11R



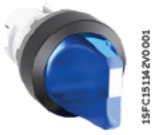
1SFC151145V0001

M2SS1-31G



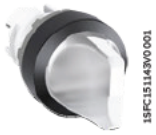
1SFC151140V0001

M2SS2-11Y



1SFC151142V0001

M2SS2-11L

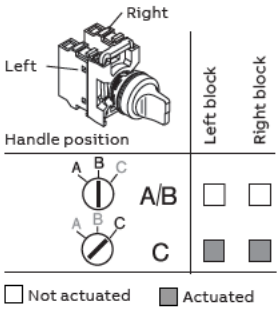


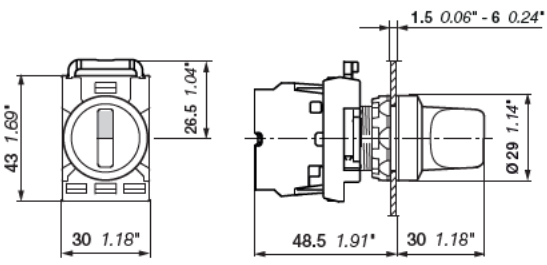
1SFC151143V0001

M2SS3-11C

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

Contacts actuated





M2SS

Dimensions (mm, inches)

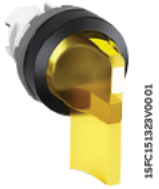
02

Modular plastic range

Illuminated selector switches - 2-position - Long handle

M2SS4-11R

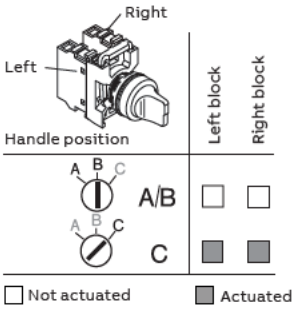
M2SS4-31G

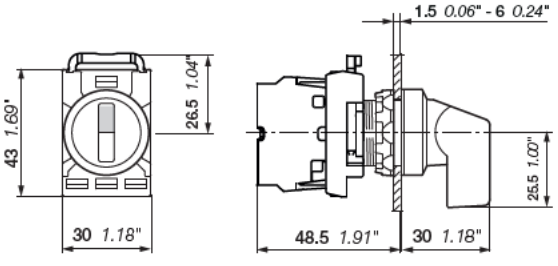


M2SS5-11Y

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

Contacts actuated





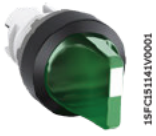
M2SS

Dimensions (mm, inches)

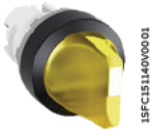
Modular plastic range

Illuminated selector switches - 3-position - Short handle

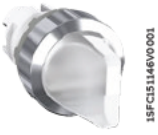
M2SS1-11R



M2SS1-11G

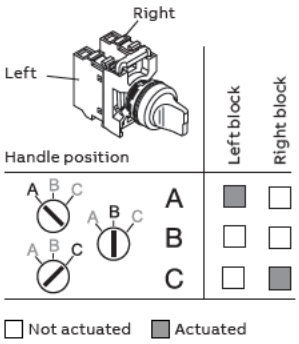


M3SS2-11Y



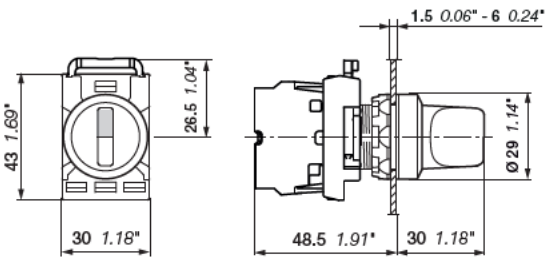
M3SS3-31C

Contacts actuated



☐ Not actuated ■ Actuated

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



M3SS

Dimensions (mm, inches)

1SFC151020S0201

Modular plastic range

Illuminated selector switches - 3-position - Long handle

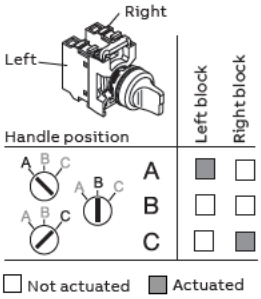
M3SS4-11R

M3SS4-11G

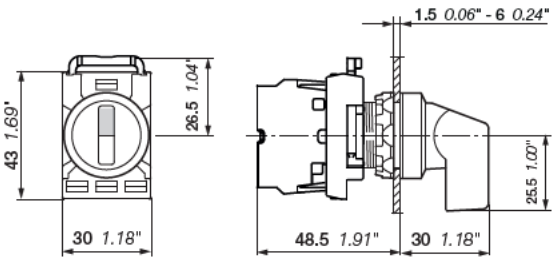
M3SS4-11Y

M3SS4-31C

Contacts actuated



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



M3SS

Dimensions (mm, inches)

1SFC151021S0201

Modular plastic range

Key-operated selector switches - 2-position

M2SSK1-101

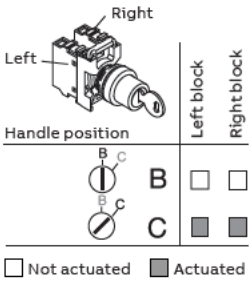
Description

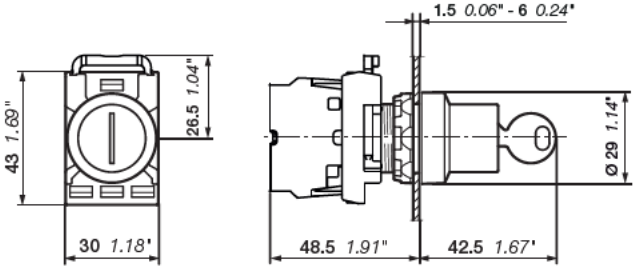
Key-operated selector switches are delivered in black color.

Operating principle	Key	Bezel	Type	Order code	Pkg qty	Weight (1 pce) kg
Key can be removed in both positions	Key code 455	Black plastic	M2SSK1-101	1SFA611280R1001	1	0.045
		Chrome plastic	M2SSK1-201	1SFA611280R2001	1	0.045
		Chrome metal	M2SSK1-301	1SFA611280R3001	1	0.054
	Key code 421	Black plastic	M2SSK1-102	1SFA611280R1002	1	0.045
		Chrome metal	M2SSK1-302	1SFA611280R3002	1	0.054
	Key code 3433-E	Black plastic	M2SSK1-103	1SFA611280R1003	1	0.045
		Chrome metal	M2SSK1-303	1SFA611280R3003	1	0.054
	Random selection (1)	Black plastic	M2SSK1-104	1SFA611280R1004	25	0.045
		Chrome metal	M2SSK1-304	1SFA611280R3004	25	0.054
Key can be removed in B position only	Key code 455	Black plastic	M2SSK2-101	1SFA611281R1001	1	0.045
		Chrome plastic	M2SSK2-201	1SFA611281R2001	1	0.045
		Chrome metal	M2SSK2-301	1SFA611281R3001	1	0.054
	Key code 421	Black plastic	M2SSK2-102	1SFA611281R1002	1	0.045
		Chrome metal	M2SSK2-302	1SFA611281R3002	1	0.054
	Key code 3433-E	Black plastic	M2SSK2-103	1SFA611281R1003	1	0.045
		Chrome plastic	M2SSK2-203	1SFA611281R2003	1	0.045
		Chrome metal	M2SSK2-303	1SFA611281R3003	1	0.054
	Random selection (1)	Black plastic	M2SSK2-104	1SFA611281R1004	25	0.045
		Chrome metal	M2SSK2-304	1SFA611281R3004	25	0.054
Key can be removed in position B only	Key code 455	Black plastic	M2SSK3-101	1SFA611282R1001	1	0.045
		Chrome metal	M2SSK3-301	1SFA611282R3001	1	0.054
	Key code 421	Black plastic	M2SSK3-102	1SFA611282R1002	1	0.045
		Chrome metal	M2SSK3-302	1SFA611282R3002	1	0.054
	Key code 3433-E	Black plastic	M2SSK3-103	1SFA611282R1003	1	0.045
		Chrome metal	M2SSK3-303	1SFA611282R3003	1	0.054
	Random selection (1)	Black plastic	M2SSK3-104	1SFA611282R1004	25	0.045
		Chrome metal	M2SSK3-304	1SFA611282R3004	25	0.054
Key can be removed in A only	Key code 455	Black plastic	M2SSK4-101	1SFA611289R1001	1	0.045

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

Contacts actuated





M2SSK

Dimensions (mm, inches)

Modular plastic range

Key-operated selector switches - 3-position

M2SSK1-101

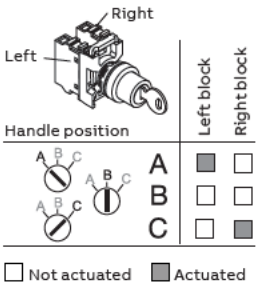
Description

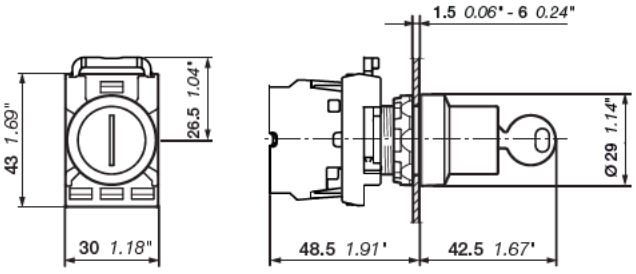
Key-operated selector switches are delivered in black color.

Operating principle	key	Bezel	Type	Order code	Pkg qty	Weight (1 pce) kg
Key can be removed in all positions	Key code 455	Black plastic	M3SSK1-101	1SFA611283R1001	1	0.045
		Chrome plastic	M3SSK1-201	1SFA611283R2001	1	0.045
		Chrome metal	M3SSK1-301	1SFA611283R3001	1	0.054
	Key code 421	Black plastic	M3SSK1-102	1SFA611283R1002	1	0.045
		Chrome metal	M3SSK1-302	1SFA611283R3002	1	0.054
	Key code 3433-E	Black plastic	M3SSK1-103	1SFA611283R1003	1	0.045
		Chrome metal	M3SSK1-303	1SFA611283R3003	1	0.054
	Random selection (1)	Black plastic	M3SSK1-104	1SFA611283R1004	25	0.045
		Chrome metal	M3SSK1-304	1SFA611283R3004	25	0.054
Key can be removed in position B only	Key code 455	Black plastic	M3SSK2-101	1SFA611284R1001	1	0.045
		Chrome metal	M3SSK2-301	1SFA611284R3001	1	0.054
	Key code 421	Black plastic	M3SSK2-102	1SFA611284R1002	1	0.045
	Key code 3433-E	Black plastic	M3SSK2-103	1SFA611284R1003	1	0.045
	Random selection (1)	Black plastic	M3SSK2-104	1SFA611284R1004	25	0.045
Key can be removed in position B only	Key code 455	Black plastic	M3SSK3-101	1SFA611285R1001	1	0.045
		Chrome metal	M3SSK3-301	1SFA611285R3001	1	0.054
	Key code 421	Black plastic	M3SSK3-102	1SFA611285R1002	1	0.045
		Chrome metal	M3SSK3-302	1SFA611285R3002	1	0.054
	Key code 3433-E	Black plastic	M3SSK3-103	1SFA611285R1003	1	0.045
		Chrome metal	M3SSK3-303	1SFA611285R3003	1	0.054
	Random selection (1)	Black plastic	M3SSK3-104	1SFA611285R1004	25	0.045
Key can be removed in position A only	Key code 455	Black plastic	M3SSK4-101	1SFA611286R1001	1	0.045
		Chrome metal	M3SSK4-301	1SFA611286R3001	1	0.054
	Key code 421	Black plastic	M3SSK4-102	1SFA611286R1002	1	0.045
		Chrome metal	M3SSK4-302	1SFA611286R3002	1	0.054
Key can be removed in all positions	Key code 455	Black plastic	M3SSK5-101	1SFA611287R1001	1	0.045
		Chrome metal	M3SSK5-301	1SFA611287R3001	1	0.054
	Key code 3433-E	Black plastic	M3SSK5-103	1SFA611287R1003	1	0.045
Key can be removed in A only	Key code 455	Black plastic	M3SSK6-101	1SFA611288R1001	1	0.045

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

Contacts actuated





M3SSK

Dimensions (mm, inches)

1SFC151023G0201

Modular plastic range

Potentiometers

MT-110B

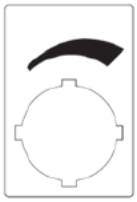
Description

Black knob with integrated position indication and marking in white.

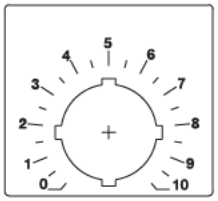
Bezel		Type	Order code	Pkg qty	Weight (1 pce) kg
Knob with resistor 5 kΩ					
Black plastic		MT-105B	1SFA611410R1056	1	0.040
Chrome plastic		MT-205B	1SFA611410R2056	1	0.040
Chrome metal		MT-305B	1SFA611410R3056	1	0.049
Knob with resistor 10 kΩ					
Black plastic		MT-110B	1SFA611410R1106	1	0.040
Chrome plastic		MT-210B	1SFA611410R2106	1	0.040
Chrome metal		MT-310B	1SFA611410R3106	1	0.048
Knob with resistor 50 kΩ					
Black plastic		MT-150B	1SFA611410R1506	1	0.040
Chrome plastic		MT-250B	1SFA611410R2506	1	0.040
Chrome metal		MT-350B	1SFA611410R3506	1	0.049
Knob without resistor (1)					
Black plastic		MT-1B	1SFA611410R1006	10	0.022
Chrome plastic		MT-2B	1SFA611410R2006	10	0.022
Chrome metal		MT-3B	1SFA611410R3006	10	0.030
Legend plates aluminum					
29.6 x 44.5 mm	Ø 22 mm	–	SK615562-87	10	0.002
48.5 x 44.5 mm, scale: 0-10	Ø 22 mm	–	SK615562-88	10	0.002
48.5 x 44.5 mm, scale: 0-50	Ø 22 mm	MA6-1252	1SFA611930R1252	10	0.002

(1) Knob without resistor for shaft diameter 6-6 35 mm Min shaft length 20 mm

MA6-1252



SK615562-87



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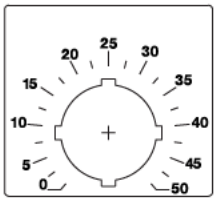
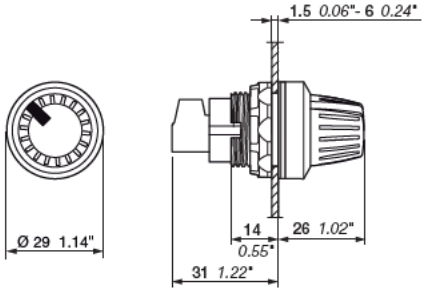


MA6-1252

Technical data

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



MT

Dimensions (mm, inches)

Modular plastic range

Reset pushbuttons

1SFC151235V0001

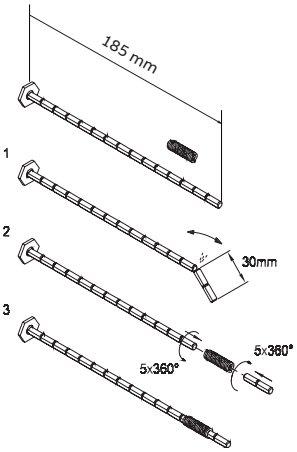
KPR1-100G

1SFC151234V0001

KPR1-101L

1SFC151229V0001

KPR1-104B



KA1-8046

1SFC151381V0001

KA1-8047

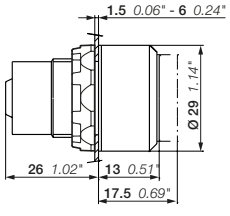
Description

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

Accessories

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



KPR1, KPR2

Dimensions (mm, inches)

Modular plastic range

Reset pushbuttons with shaft

1SFC151225V0001

KPR3-100R

1SFC151222V0001

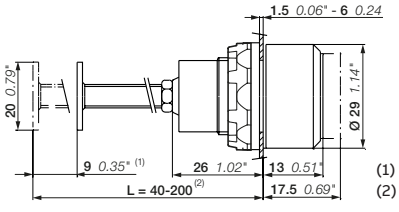
KPR3-104B

Description

Reset pushbuttons are momentary and include only black plastic bezel.

Color	Text	Type	Order code	Pkg qty	Weight (1 pce) kg
Flush reset pushbutton					
● Red	No text	KPR3-100R	1SFA616162R1001	10	0.027
● Green	No text	KPR3-100G	1SFA616162R1002	10	0.027
	II	KPR3-103G	1SFA616162R1032	10	0.027
	START	KPR3-106G	1SFA616162R1062	10	0.027
● Yellow	No text	KPR3-100Y	1SFA616162R1003	10	0.027
● Blue	No text	KPR3-100L	1SFA616162R1004	10	0.027
	R	KPR3-101L	1SFA616162R1014	10	0.027
○ White	No text	KPR3-100W	1SFA616162R1005	10	0.027
	R	KPR3-101W	1SFA616162R1015	10	0.027
	I	KPR3-102W	1SFA616162R1025	10	0.027
● Black	No text	KPR3-100B	1SFA616162R1006	10	0.027
	RESET	KPR3-104B	1SFA616162R1046	10	0.027
Extended reset pushbutton					
● Red	No text	KPR4-100R	1SFA616163R1001	10	0.028
	O	KPR4-105R	1SFA616163R1051	10	0.028
○ White	No text	KPR4-100W	1SFA616163R1005	10	0.028
● Black	No text	KPR4-100B	1SFA616163R1006	10	0.028
	O	KPR4-105B	1SFA616163R1056	10	0.028

Note Flexible joint not included



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

KPR3, KPR4

Dimensions (mm, inches)

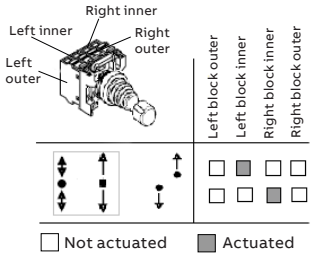
1SFC151026S0201

Modular plastic range

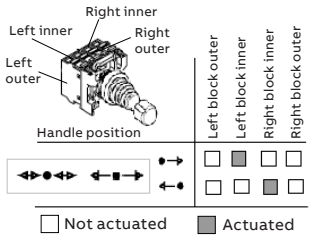
Joysticks

MJS1-60B

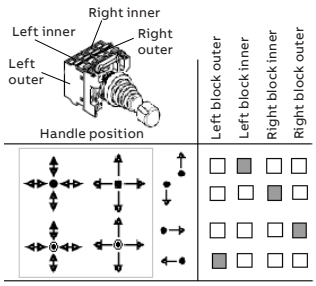
Contacts actuated



Contacts actuated



Contacts actuated



MA1-8138

MA1-8137

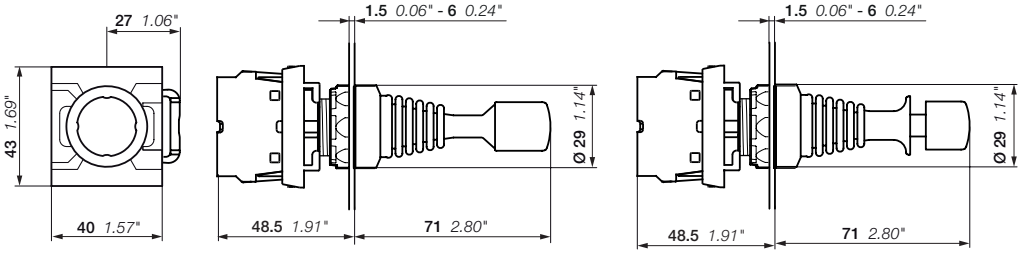
Description

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

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

Accessories

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



MJS
Dimensions (mm, inches)

without latching function

with latching function

Modular plastic range

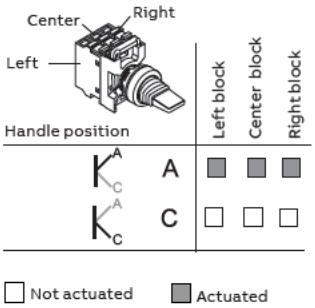
Toggle switches

MTS1-10B

MTS1-30B

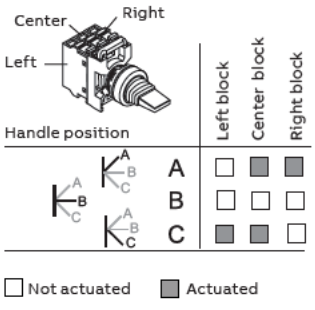
Operating principle	Bezel	Type	Order code	Pkg qty	Weight (1 pce) kg
2-position					
	Black plastic	MTS1-10B	1SFA611300R1006	10	0.014
	Chrome plastic	MTS1-20B	1SFA611300R2006	10	0.014
	Chrome metal	MTS1-30B	1SFA611300R3006	10	0.023
3-position					
	Black plastic	MTS3-10B	1SFA611302R1006	10	0.014
	Chrome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

Contacts actuated, 2-position

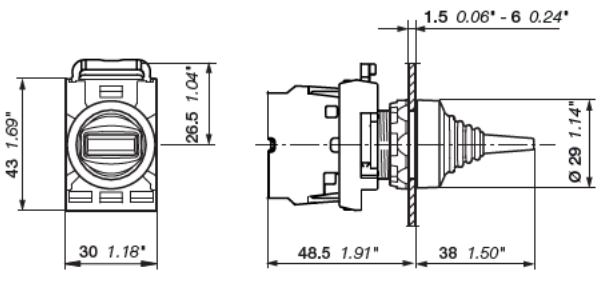


☐ Not actuated ■ Actuated

Contacts actuated, 3-position



☐ Not actuated ■ Actuated



MTS

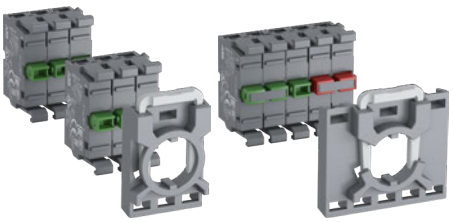
Dimensions (mm, inches)

Modular plastic range

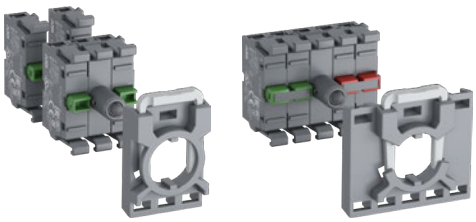
Contact block configutation

Pushbuttons - Heavy duty pushbuttons (1) - Mushrooms pushbuttons

Non-illuminated



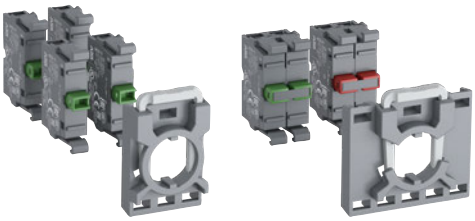
Illuminated



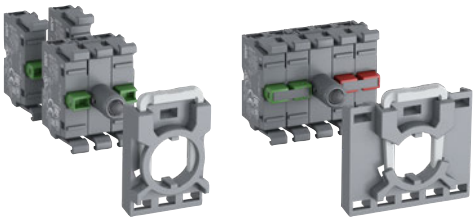
(1) Holder included for heavy duty pushbuttons

Double pushbuttons

Non-illuminated

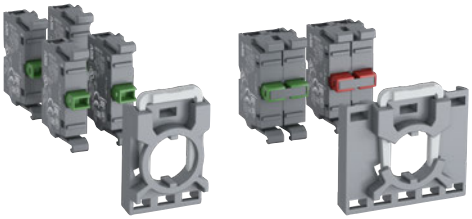


Illuminated

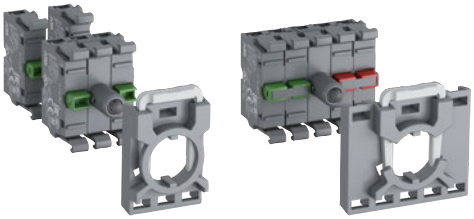


Selector switches

Non-illuminated

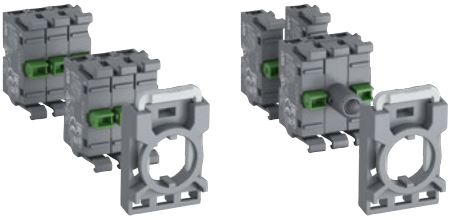


Illuminated



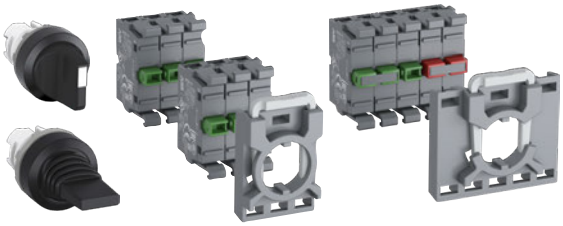
Emergency stop pushbuttons - Machine stop pushbuttons

Non-illuminated **Illuminated**

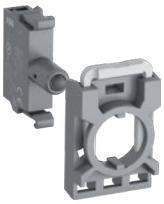


Toggle switches - Center block operating selector switches

Non-illuminated



Pilot lights



Joysticks (2)

Note: locking nut included with all operators.

(2) Holder is included for joystick

1SFC151055S0201

Modular plastic range

Holders and contact blocks for front mounting

1SFC151401V0001

MCBH-00

1SFC151277V0001

MCBH5-00

1SFC151366V0001

MCB-10

1SFC151369V0001

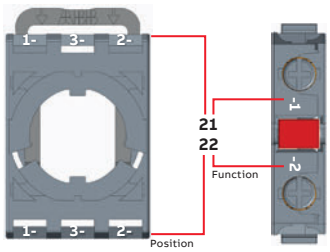
MCB-02

1SFC151283V0001

MCBL-01

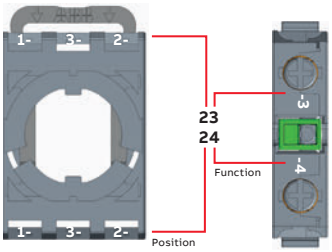
Description	Contacts	Type	Order code	Pkg qty	Weight (1 pce)
					kg
Holders					
3-position	– –	MCBH-00	1SFA611605R1100	10	0.006
5-position	– –	MCBH5-00	1SFA611601R1100	10	0.008
Single contact blocks					
For 3 & 5-position holder	1 0	MCB-10	1SFA611610R1001	10	0.013
	0 1	MCB-01	1SFA611610R1010	10	0.013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

Note micro switch block MCBL-01 are not direct opening and does not fulfill IEC60947-5-5 for emergency stop devices
Note 3 micro switch contact blocks max allowed If more than 3 contact blocks are needed, micro switch contact block to be mounted on the second stack



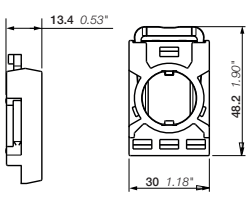
Combined markings

11	31	21
12	32	22

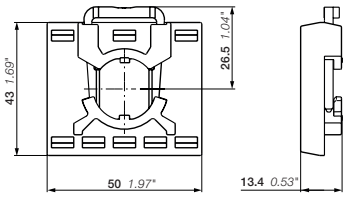


Combined markings

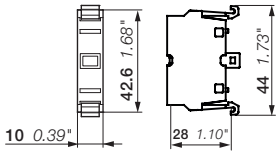
13	33	23
14	34	24



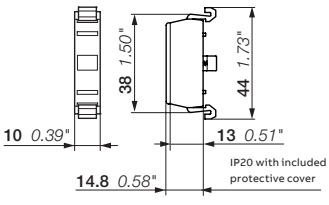
MCBH



MCBH5



MCB



MCBL

Dimensions (mm, inches)

Modular plastic range

LED blocks for front mounting

1SFC151417V0001

MLBL-00W

Color	Rated current mA	Wavelength nm	Luminance mcd	Type	Order code	Pkg qty	Weight (1pce) kg
Rated voltage 12 V DC							
Red	12.0	620	320	MLBL-00R	1SFA611621R1001	10	0.012
Green	12.0	520	1500	MLBL-00G	1SFA611621R1002	10	0.012
Yellow	12.0	588	380	MLBL-00Y	1SFA611621R1003	10	0.012
Blue	12.0	468	450	MLBL-00L	1SFA611621R1004	10	0.012
White	12.0	(1)	600	MLBL-00W	1SFA611621R1005	10	0.012
Rated voltage 24 V AC/DC							
Red	10.0	620	250	MLBL-01R	1SFA611621R1011	10	0.012
Green	10.0	520	1500	MLBL-01G	1SFA611621R1012	10	0.012
Yellow	10.0	588	250	MLBL-01Y	1SFA611621R1013	10	0.012
Blue	10.0	468	450	MLBL-01L	1SFA611621R1014	10	0.012
White	10.0	(1)	600	MLBL-01W	1SFA611621R1015	10	0.012
Rated voltage 48 V AC/DC							
Red	10.0	620	260	MLBL-02R	1SFA611621R1021	10	0.012
Green	13.0	520	1500	MLBL-02G	1SFA611621R1022	10	0.012
Yellow	10.0	588	300	MLBL-02Y	1SFA611621R1023	10	0.012
Blue	13.0	468	450	MLBL-02L	1SFA611621R1024	10	0.012
White	13.0	(1)	600	MLBL-02W	1SFA611621R1025	10	0.012
Rated voltage 60 V AC/DC							
Red	13.0	620	350	MLBL-03R	1SFA611621R1031	10	0.012
Green	13.0	520	2000	MLBL-03G	1SFA611621R1032	10	0.012
Yellow	13.0	588	400	MLBL-03Y	1SFA611621R1033	10	0.012
Blue	13.0	468	550	MLBL-03L	1SFA611621R1034	10	0.012
White	13.0	(1)	750	MLBL-03W	1SFA611621R1035	10	0.012
Rated voltage 110-130 V AC							
Red	10.0	620	200	MLBL-04R	1SFA611621R1041	10	0.012
Green	10.0	520	1200	MLBL-04G	1SFA611621R1042	10	0.012
Yellow	10.0	588	250	MLBL-04Y	1SFA611621R1043	10	0.012
Blue	10.0	468	400	MLBL-04L	1SFA611621R1044	10	0.012
White	10.0	(1)	500	MLBL-04W	1SFA611621R1045	10	0.012
Rated voltage 110-130 V AC high anti-inductive voltage (2)							
Red	10.0	620	250	MLBL-04AR	1SFA611621R3041	10	0.012
Green	10.0	520	1500	MLBL-04AG	1SFA611621R3042	10	0.012
Yellow	10.0	582	300	MLBL-04AY	1SFA611621R3043	10	0.012
Blue	10.0	468	450	MLBL-04AL	1SFA611621R3044	10	0.012
White	10.0	(1)	600	MLBL-04AW	1SFA611621R3045	10	0.012
Rated voltage 110-130 V DC							
Red	10.0	620	250	MLBL-05R	1SFA611621R1051	10	0.012
Green	10.0	520	1500	MLBL-05G	1SFA611621R1052	10	0.012
Yellow	10.0	588	300	MLBL-05Y	1SFA611621R1053	10	0.012
Blue	10.0	468	450	MLBL-05L	1SFA611621R1054	10	0.012
White	10.0	(1)	600	MLBL-05W	1SFA611621R1055	10	0.012
Rated voltage 220 V DC							
Red	8.0	620	180	MLBL-06R	1SFA611621R1061	10	0.012
Green	8.0	520	110	MLBL-06G	1SFA611621R1062	10	0.012
Yellow	8.0	588	200	MLBL-06Y	1SFA611621R1063	10	0.012
Blue	8.0	468	450	MLBL-06L	1SFA611621R1064	10	0.012
White	8.0	(1)	600	MLBL-06W	1SFA611621R1065	10	0.012

Note care should be taken for DC supply where and - must be correctly connected This is marked X1 ( ) and X2 (-) on the product
(1) X 0 31, Y 0 32 according to the ICI Chromaticity diagram
(2) Higher threshold to light up LED to be used in application where there is risk of large induced voltages

Modular plastic range

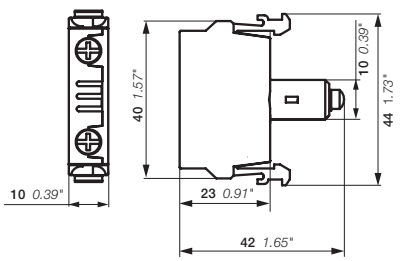
LED blocks for front mounting

1SFC151417V0001

MLBL-00W

Color	Rated current mA	Wavelength nm	Luminance mcd	Type	Order code	Pkg qty	Weight (1pce) kg
Rated voltage 230 V AC							
Red	10.0	620	250	MLBL-07R	1SFA611621R1071	10	0.012
Green	10.0	520	1500	MLBL-07G	1SFA611621R1072	10	0.012
Yellow	10.0	588	300	MLBL-07Y	1SFA611621R1073	10	0.012
Blue	10.0	468	450	MLBL-07L	1SFA611621R1074	10	0.012
White	10.0	(1)	600	MLBL-07W	1SFA611621R1075	10	0.012
Rated voltage 230 V AC high anti-inductive voltage (2)							
Red	10.0	620	250	MLBL-99R	1SFA611621R1991	10	0.012
Green	10.0	520	1500	MLBL-99G	1SFA611621R1992	10	0.012
Yellow	10.0	588	300	MLBL-99Y	1SFA611621R1993	10	0.012
Blue	10.0	468	450	MLBL-99L	1SFA611621R1994	10	0.012
White	10.0	(1)	600	MLBL-99W	1SFA611621R1995	10	0.012
Rated voltage 380 V AC							
Red	10.0	620	250	MLBL-08R	1SFA611621R1081	10	0.012
Green	10.0	520	1500	MLBL-08G	1SFA611621R1082	10	0.012
Yellow	10.0	582	300	MLBL-08Y	1SFA611621R1083	10	0.012
Blue	10.0	468	450	MLBL-08L	1SFA611621R1084	10	0.012
White	10.0	(1)	600	MLBL-08W	1SFA611621R1085	10	0.012
Rated voltage 415 V AC							
Red	11	620	280	MLBL-09R	1SFA611621R1091	10	0.012
Green	11	520	1800	MLBL-09G	1SFA611621R1092	10	0.012
Yellow	11	588	350	MLBL-09Y	1SFA611621R1093	10	0.012
Blue	11	468	500	MLBL-09L	1SFA611621R1094	10	0.012
White	11	(1)	650	MLBL-09W	1SFA611621R1095	10	0.012

Note care should be taken for DC supply where and - must be correctly connected This is marked X1 ( ) and X2 (-) on the product
(1) X 0 31, Y 0 32 according to the ICI Chromaticity diagram
(2) Higher threshold to light up LED to be used in application where there is risk of large induced voltages



MLBL

Dimensions (mm, inches)

1SFC151076S0201

Modular plastic range

Accessories

1SFC151253F0001

KA1

1SFC151397V0001

MA1-8052

1SFC151396V0001

MA1-8126

1SFC151379F0001

KA1-8010

1SFC151212V0001

KA1-8022/KA1-8021

1SFC151487F0001

SK616016-2

1SFC151391V0001

MA1-8153

1SFC151392V0001

MA1-8152

1SFC151384V0001

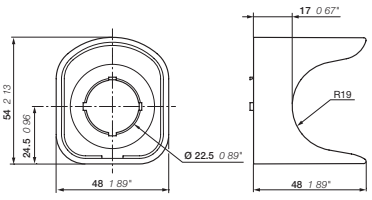
MA1-8053

1SFC151383V0001

MA1-8128

Description	Bezel / color	Type	Order code	Pkg qty	Weight (1pce) kg
30 mm adaptors for 22 mm operator (1.5 - 4 mm panel thickness)					
Emergency stop pushbuttons, MPM	Black plastic	KA1-8027	1SFA616920R8027	1	0.007
	Chrome metal	KA1-8028	1SFA616920R8028	1	0.021
Pushbuttons, selector switches, pilot lights, potentiometers, emergency stop pushbuttons, MPE	Black plastic	KA1-8029	1SFA616920R8029	1	0.010
Flush mounted pushbuttons	Chrome metal	KA1-8073	1SFA616920R8073	1	0.050
Flush mounted selector switches	Chrome metal	MA1-8074	1SFA611920R8074	1	0.050
Protective membrane, silicone					
Flush pushbutton		MA1-8052	1SFA611920R8052	10	0.002
Double pushbutton		MA1-8126	1SFA611920R8126	10	0.002
Extended pushbutton		MA1-8002	1SFA611920R8002	10	0.002
Protective ring To prevent accidental operation. Cannot be used together with Legend plate holder					
Flush and extended pushbuttons	Clear plastic	-	SK615512-1	10	0.002
Flush pushbuttons	Metal and black plastic	KA1-8010	1SFA616920R8010	10	0.008
Bezel					
Pushbuttons	Black plastic	KA1-8022	1SFA616920R8022	10	0.002
	Chrome plastic	KA1-8020	1SFA616920R8020	10	0.002
	Chrome metal	KA1-8021	1SFA616920R8021	10	0.015
Selector switches	Black plastic	KA1-8080	1SFA616920R8080	10	0.002
	Chrome plastic	KA1-8023	1SFA616920R8023	10	0.002
	Chrome metal	KA1-8024	1SFA616920R8024	10	0015
Square bezel					
Black plastic		-	SK616016-2	10	0.001
Lockable shroud					
Pushbuttons, selector switches	Plastic	MA1-8153	1SFA611920R8153	10	0.023
Emergency stop 30 mm	Metal	-	SK615502-D	1	0.080
Touch guard					
Touch guard		MA1-8152	1SFA611920R8152	10	0.023
Shroud with anti rotation tabs, slot for pad-lock and with water drainage					
Emergency stop, machine stop 40 mm	Yellow	MA1-8053	1SFA611920R8053	10	0.020
	Grey	MA1-8128	1SFA611920R8128	10	0.020

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



MA1

Dimensions (mm, inches)

Modular plastic range

Accessories

MA1-8131

MDB-2

MA1-8015

MA1-8149

MA1-8019

Description	Bezel / color	Type	Order code	Pkg qty	Weight (1pce) kg
DIN-rail adaptor					
DIN-rail adaptor		MA1-8131	1SFA611920R8131	1	0.020
DIN-rail adaptor with one dummy block		MA1-8001	1SFA611920R8001	1	0.028
Dummy block		MDB-2	1SFA611630R1002	10	0.003
Mounting tools					
Mounting tool for tightening the locking nut		MA1-8015	1SFA611920R8015	1	0.021
Mounting tool for power tool		MA1-8149	1SFA611920R8149	1	0.155
Extra key					
Key code 455			SK616021-71	10	0.007
Key code 421			SK616021-72	10	0.007
Key code 3433-E			SK616021-73	10	0.007
Locking nut		MA1-8019	1SFA611920R8019	10	0.001

Note Din-rail adaptor should be used with 2 contact blocks for rear mounting type MCB B
Note Dummy blocks are used when only one contact block or a compact pilot device is used together with the DIN-rail adaptor

Modular plastic range

Technical data

Standards and approvals

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

Environmental data
Degrees of protection

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

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

Temperature

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

Technical data

Terminals

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

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

Connecting characteristics

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

Material

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

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

Chemical resistance for polycarbonate

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

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Modular plastic range

Technical data

Electrical data

MCB Standard contact blocks (standard and gold plated)

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

Ratings as per IEC 60947-5-1

Rated insulation voltage, Ui		690 V
Rated thermal current, Ith		10 A
Rated operational current, Ie Utilization category AC 15,	at: 120 V	8 A
	at: 230 V	6 A
	at: 400 V	4 A
	at: 690 V	2 A
Rated operational current, Ie utilisation category DC 13,	at: 24 V	5 A
	at: 125 V	1.1 A
	at: 250 V	0.55 A
Rated impulse withstand voltage	Uimp	6 kV
Pollution degree		3

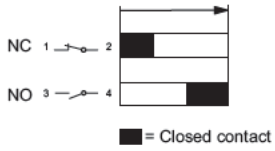
Ratings as per UL, CSA, NEMA		A600 AC		Q600 DC
Rated insulation voltage		600 V		600 V
Rated thermal current		10 A		2.5 A
Rated operational current	at: 120 V	6 A	at: 125 V	0.55 A
	at: 240 V	3 A	at: 250 V	0.27 A
	at: 480 V	1.5 A	at: 480 V	0.10 A
	at: 600 V	1.2 A	at: 600 V	0.10 A

Max. number of contact blocks per operator

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

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

Short circuit protection

Max. fuse at 1 kA	gG 16A
Diagram for make and break contact MCB, MCBL	

Micro switch block

Ratings as per IEC 60947-5-1		
Rated insulation voltage, Ui		125 V
Rated thermal current, Ith		3 A
Rated operational current, Ie utilisation category AC 14,	at: 125 V	0.5 A
Rated operational current, Ie 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

Mechanical data

Mechanical life

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

Selector switches M2SS, M3SS

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

Selector switches - center block operating M3SSC

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

Key-operated selector switch M2SSK, M3SSKand double pushbutton MPD	500 000 operations
Emergency stop pushbuttons MPET, MPEP, MPEK	100 000 operations
Toggle switch MTS	1 million operations

Joystick MJS

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

LED blocks MLBL

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

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

Modular plastic range

Technical data

LED blocks front and rear mounting MLBL

Color		Current		Illuminance		Anti ... inductive peak voltage	Main wavelength	Color temperature
		mA		lx				
		Min.	Max.	Min.	Max.	V	nm	K
Voltage range 12 V DC								
●	Red	11	15	1000	3500	5	620 ... 625	–
●	Green	8	12	3700	12500	5	515 ... 520	–
●	Yellow	11	15	1200	4250	5	585 ... 590	–
●	Blue	8	12	1500	5300	5	465 ... 470	–
○	Clear	8	12	1800	8500	5	–	8000 ... 12000
Voltage range 24 V AC / DC								
●	Red	8	12	900	3100	5	620 ... 625	–
●	Green	8	12	3000	11500	5	515 ... 520	–
●	Yellow	8	12	1000	3400	5	585 ... 590	–
●	Blue	8	12	1500	5300	5	465 ... 470	–
○	Clear	8	11	1800	8500	5	–	8000 ... 12000
Voltage range 48 V AC / DC								
●	Red	8	12	900	3100	5	620 ... 625	–
●	Green	8	12	3000	11500	5	515 ... 520	–
●	Yellow	8	12	1000	3400	5	585 ... 590	–
●	Blue	8	12	1500	5300	5	465 ... 470	–
○	Clear	8	12	1800	8500	5	–	8000 ... 12000
Voltage range 60 V AC / DC								
●	Red	8	12	900	3100	5	620 ... 625	–
●	Green	8	12	3000	11500	5	515 ... 520	–
●	Yellow	8	12	1000	3400	5	585 ... 590	–
●	Blue	8	12	1500	5300	5	465 ... 470	–
○	Clear	8	12	1800	8500	5	–	8000 ... 12000
Voltage range 110 ... 130 V AC								
●	Red	8	12	900	3100	15	620 ... 625	–
●	Green	8	12	3200	12000	15	515 ... 520	–
●	Yellow	8	12	1000	3700	15	585 ... 590	–
●	Blue	8	12	1550	5500	15	465 ... 470	–
○	Clear	8	12	1850	8800	15	–	8000 ... 12000
Voltage range 110 ... 130 V AC high anti-inductive voltage (1)								
●	Red	14	16	700	2600	25	620 ... 625	–
●	Green	14	16	2100	8200	25	515 ... 520	–
●	Yellow	14	16	750	3000	25	585 ... 590	–
●	Blue	14	16	1000	5000	25	465 ... 470	–
○	Clear	14	16	1500	8100	25	–	8000 ... 12000
Voltage range 110 ... 130 V DC								
●	Red	8	12	900	3100	15	620 ... 625	–
●	Green	8	12	3000	11500	15	515 ... 520	–
●	Yellow	8	12	1000	3400	15	585 ... 590	–
●	Blue	8	12	1500	5300	15	465 ... 470	–
○	Clear	8	12	1800	8500	15	–	8000 ... 12000

Note
The testing distance of illuminance is 2 mm, between top of lens and the sensor surface Clean test environment, supply voltage at 50/60 Hz with harmonized wave and without length high frequency
Rated voltage tolerance of LED blocks -30% to 10%
(1) Higher threshold to light up LED to be used in applications where there is risk of large induced voltages

Modular plastic range

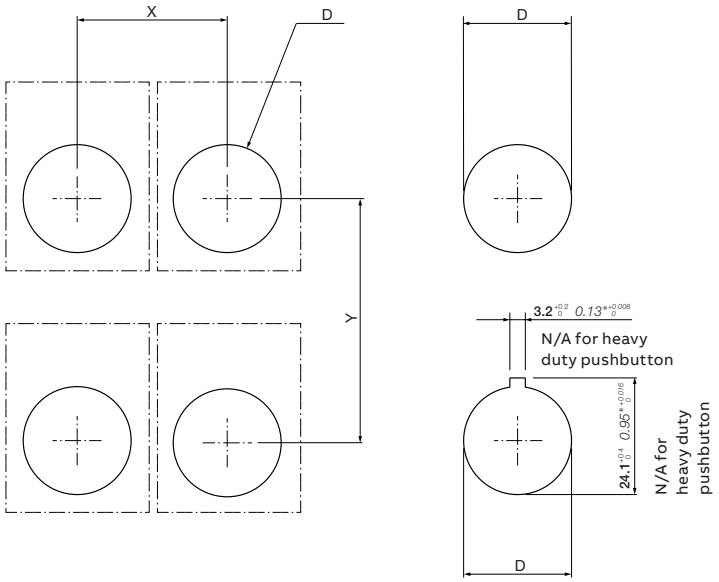
Technical data

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

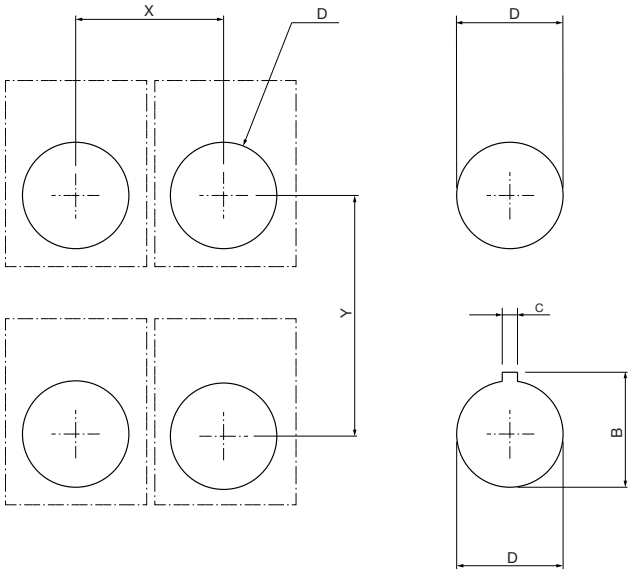
Note
The testing distance of illuminance is 2 mm, between top of lens and the sensor surface Clean test environment, supply voltage at 50/60 Hz with harmonized wave and without length high frequency
Rated voltage tolerance of LED blocks -30% to 10%
(1) Higher threshold to light up LED to be used in applications where there is risk of large induced voltages

Modular plastic range

Drilling plan



Description	X	Y	D Ø mm	D inch	Panel thickness
Pushbutton, pilot light, selector switch short handle, potentiometer, toggle switch	**31** 1.22"	**50** 1.97"	Ø **22.3** $^{+0.4}_{0}$	0.88" $^{+0.016}_{0}$	**1.5** 0.06" - **6** 0.24"
Pushbutton, pilot light, selector switch short handle (with legend plate)	**31** 1.22"	**55** 2.17"	Ø **22.3** $^{+0.4}_{0}$	0.88" $^{+0.016}_{0}$	**1.5** 0.06" - **6** 0.24"
Mushroom pushbutton (60 mm)	**45** 1.77"	**50** 1.97"	Ø **22.3** $^{+0.4}_{0}$	0.88" $^{+0.016}_{0}$	**1.5** 0.06" - **6** 0.24"
Mushroom pushbutton (40 mm)	**65** 2.56"	**70** 2.76"	Ø **22.3** $^{+0.4}_{0}$	0.88" $^{+0.016}_{0}$	**1.5** 0.06" - **6** 0.24"
Double pushbutton	**31** 1.22"	**55** 2.17"	Ø **22.3** $^{+0.4}_{0}$	0.88" $^{+0.016}_{0}$	**1.5** 0.06" - **6** 0.24"
Double pushbutton (with legend plate)	**31** 1.22"	**95** 3.74"	Ø **22.3** $^{+0.4}_{0}$	0.88" $^{+0.016}_{0}$	**1.5** 0.06" - **6** 0.24"
Heavy duty pushbutton	**50** 1.97"	**50** 1.97"	Ø **30.5** $^{+0.5}_{0}$	1.20" $^{+0.02}_{0}$	**2** 0.08" - **5** 0.20"
Potentiometer (with legend plate)	**51** 2.01"	**50** 1.97"	Ø **22.3** $^{+0.4}_{0}$	0.88" $^{+0.016}_{0}$	**1.5** 0.06" - **6** 0.24"
Toggle switch (with legend plate)	**31** 1.22"	**66** 2.60"	Ø **22.3** $^{+0.4}_{0}$	0.88" $^{+0.016}_{0}$	**1.5** 0.06" - **6** 0.24"
Joystick (with legend plate)	**100** 3.94"	**100** 3.94"	Ø **22.3** $^{+0.4}_{0}$	0.88" $^{+0.016}_{0}$	**1.5** 0.06" - **6** 0.24"



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

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