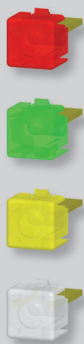


TUMBLER SWITCHES



Tumbler switches

- For switching of up to 4 electric circuits up to 25 A.
- They can be used in both building and industrial installations and in security technology.
- Modular design with fastening on the „U“ rail wide 35 mm according to EN 60715.

Arrangement of contacts ¹⁾	Type	Product code	Number of modules	Weight [kg]	Package [pcs]
11	MSP-11	35865	1	0.084	1
22	MSP-22	35870	1	0.094	1
40	MSP-40	35874	1	0.094	1

¹⁾ Each digit indicates successively the number of make and break contacts

Tumbler switches with signalling

- For electric circuit switching up to 25 A.
- They can be used in both building and industrial installations and in security technology.
- Modular design with fastening on the „U“ rail wide 35 mm according to EN 60715.
- Installed indicator light of white colour 230 V a.c. can be replaced by other one.
- Indicator light is connected between the contact and the terminal (see the diagram).

Colour of indicator light	Arrangement of contacts ¹⁾	Type	Product code	Number of modules	Weight [kg]	Package [pcs]
white	11	MSP-11-SG-A230	37262	1	0.0940	1
	20	MSP-20-SG-A230	37263	1	0.0940	1

¹⁾ Each digit indicates successively the number of make and break contacts

Accessories

Indicator lights

- Accessories for tumbler switches with signalling as substitute for the installed white indicator light.
- Indicator light power: 0.8 W
- Indicator light contains a LED.
- Indicator lights light permanently.

Colour of cover	Rated voltage	Type	Product code	Weight [kg]	Package [pcs]
red	230 V a.c.	SC-A230	11102	0.003	12
	24 V a.c./d.c.	SC-X024	11106	0.003	12
green	230 V a.c.	SE-A230	11103	0.003	12
	24 V a.c./d.c.	SE-X024	11107	0.003	12
yellow	230 V a.c.	SD-A230	11104	0.003	12
	24 V a.c./d.c.	SD-X024	11108	0.003	12
white	230 V a.c.	SG-A230	11101	0.003	12
	24 V a.c./d.c.	SG-X024	11105	0.003	12

TUMBLER SWITCHES

Specifications

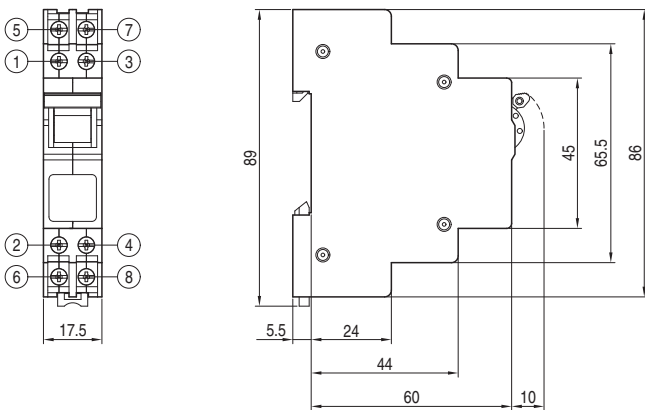
Type		MSP-..	MSP-..-SG-A230
Standards		EN 60947-5-1	EN 60947-5-1
Approval marks			
Contacts			
Arrangement of contacts ¹⁾		11, 22, 40	11, 20
Rated operating voltage	U_e	230/400 V a.c., 220 V d.c.	230/400 V a.c., 220 V d.c.
Rated thermal current	I_{th}	25 A	25 A
Rated operating current	I_e	AC-12	25 A
		AC-15	6 A
		DC-12	1 A
Mechanical endurance		30 000 operating cycles	30 000 operating cycles
Connection		0.75 ÷ 6 mm ² , 2x(0.75 ÷ 2.5) mm ²	0.75 ÷ 6 mm ² , 2x(0.75 ÷ 2.5) mm ²
Torque		0.8 Nm	0.8 Nm
Light signalling			
Power output		-	0.8 W
Rated operating voltage	U_e	-	24 V a.c./d.c., 230 V a.c.
Colour of cover		-	white, red, green, yellow ²⁾
Light		-	permanent
Source		-	LED
Dispersion		-	by raster in front of LED
Connection		-	0.75 ÷ 6 mm ² , 2x(0.75 ÷ 2.5) mm ²
Torque		-	0.8 Nm
Other data			
Mounting on "U" rail according to EN 60715 - type		TH 35	TH 35
Degree of protection		IP20	IP20
Ambient temperature		-25 ÷ +55 °C	-25 ÷ +55 °C
Working position		arbitrary	arbitrary

¹⁾ Each digit indicates successively the number of make and break contacts.

²⁾ Tumbler switch with signalling contains a white indicator light; other colour can be bought as accessories.

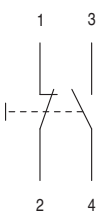
Dimensions

MSP-..

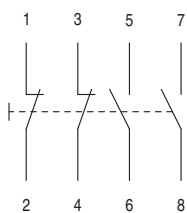


Diagram

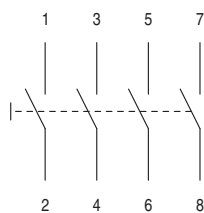
MSP-11



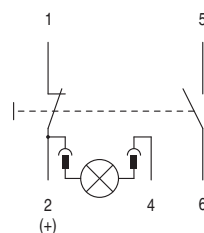
MSP-22



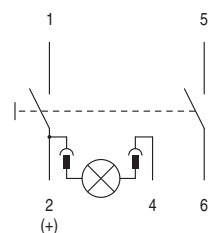
MSP-40



MSP-11-SG-A230



MSP-20-SG-A230



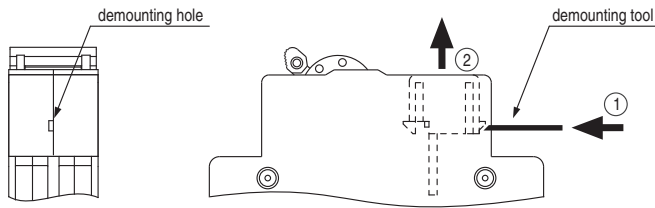
TUMBLER SWITCHES

Replacement of indicator light

- Installed indicator lights of white colour can be replaced by other ones (see accessories).

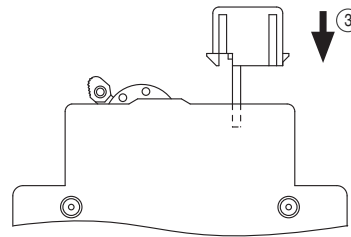
Indicator light demounting:

- 1) Insert demounting tool (e.g. paper-clip) in the demounting hole and push to ensure that the indicator light jumps up a little.
- 2) Remove the indicator light from the tumbler switch.



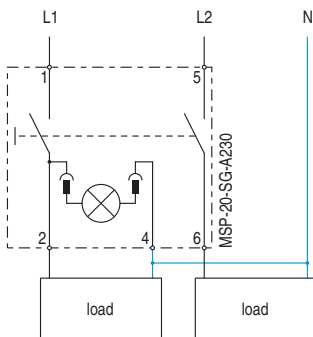
Installation of indicator light:

- 3) Insert and press the indicator light in the hole in the tumbler switch.

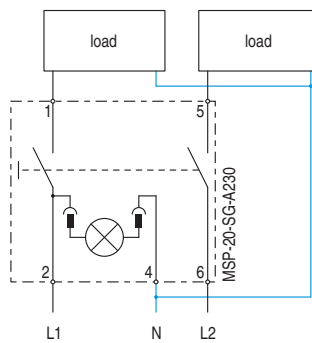


Connection examples

- The indicator light can be connected in two ways:
 - to indicate load connection
 - to indicate voltage presence and to enable easy finding of the switch during the night-time



Indicator light indicates load connection



Indicator light indicates presence of voltage