

Technical Data

Foot-switch

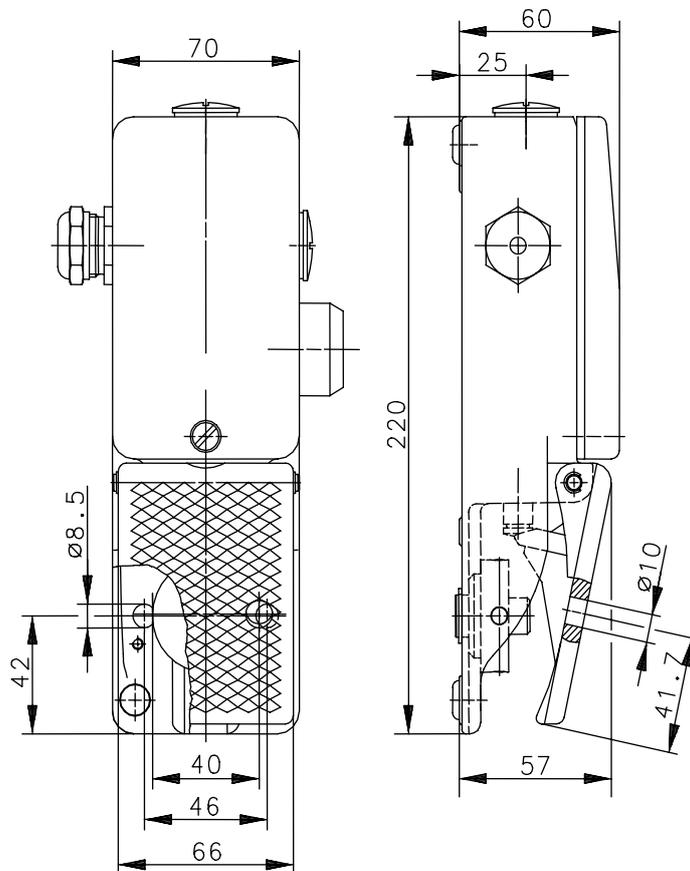
Series F1

Description

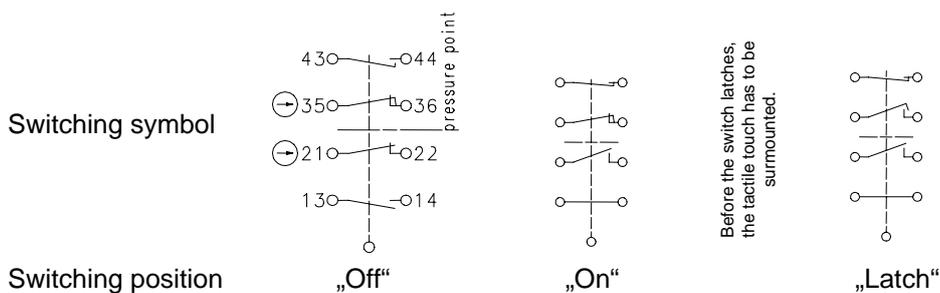
F1-SU1Z/UV1ZD

Article number

6161500686



Three-Step-Safety Switch with latching function „Off-On-Off“



Electrical data

Rated insulation voltage	U_i	400 V AC
Conventional thermal current	I_{the}	10 A
Rated operational voltage	U_e	240 V
Utilization category		AC-15, U_e/I_e 240 V / 3 A
Direct opening action	⊖	acc. to IEC/EN 60947-5-1, annex K
Short-circuit protective device		Fuse 2 A gL/gG
Protection class		I

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Mechanical data	
Enclosure	AL, die-cast
Protective guard (Accident protection cover UN)	AL, die-cast
Actuator	Foot lever (PA)
Ambient air temperature	-30° C ... +80° C
Contact type	2 N.C, 2 N.O (Zb)
Shifting force pedal	approx. 460 N (pedal centre)
Mechanical life	
Sequence of the switching position: Off, On, Off	10 x 10 ⁶ operating cycles
or: Off, On, Latch, Off	1 x 10 ⁶ operating cycles
Switching frequency	max. 50/min
Assembly	2 x M8
Connection	screw terminals (M3,5)
Number of connections	6 (see switching symbols)
Protection ground	2 x M4
Conductor cross-sections	Solid 0,5 – 1,5 mm ²
	Wire with ferrules 0,5 – 1,5 mm ²
Cable entry	2 x M20x1,5; 1 x cable gland M20x1,5 (tightness-range 6-12 mm)
Weight	approx. 1,5 kg
Protection type	IP65 in accordance with IEC/EN 60529
Regulations	VDE 0660 T100, DIN EN 60947-1, IEC 60947-1 VDE 0660 T200, DIN EN 60947-5-1, IEC 60947-5-1

EU Conformity	CE
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Approvals	BG cCSA _{US} A300, Q300 (same polarity)
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Safety function

Three stage safety footswitch with latch

The safety footswitch contacts are wired in series, this allows normal machine operation with the advantage of a safety latched „Emergency stop“ if the pedal is fully depressed.

1. Rest-Machine stopped.
2. Machine start is enabled by depressing pedal to the pressure point, this closed the normally open contacts 33-34 and 13-14.
3. In an emergency, the pedal is fully depressed (beyond the pressure point). The normally closed contacts 25-26 are force disconnected stopping the machine, simultaneously the latch engages and holds the contacts in this “Emergency stop” status, preventing an unauthorised re-start of the machine.

„Safety for man and machine“

3. Only after releasing the latch, by pressing the push button mounted in the side of the footswitch body, do the contacts reset allowing normal operation to resume.

Notes

The specified protection classification (IP code) applies only when the cover is closed and the appropriate cable is used, in accordance with the clamping range of the above mentioned cable gland.

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