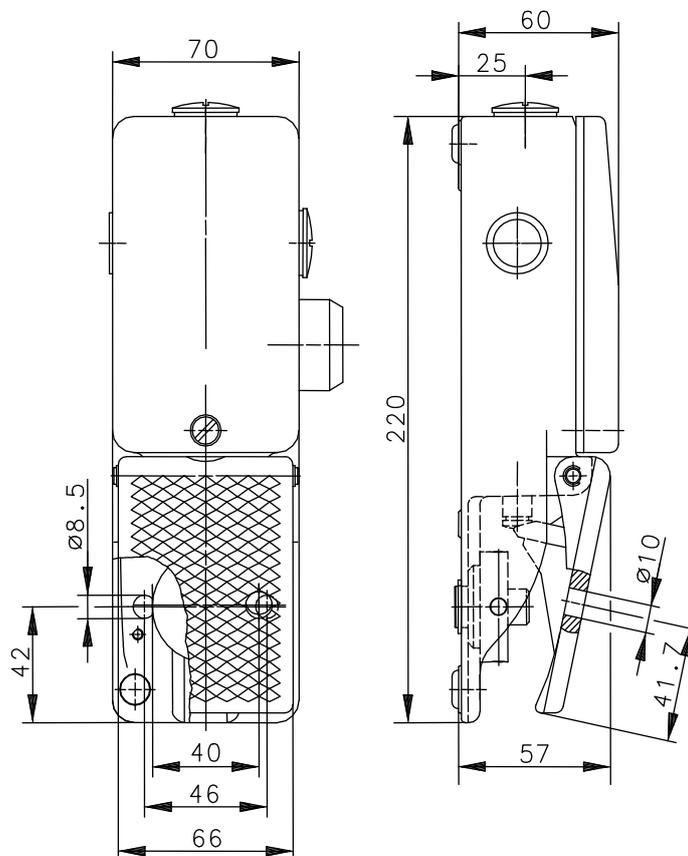


### Series F1

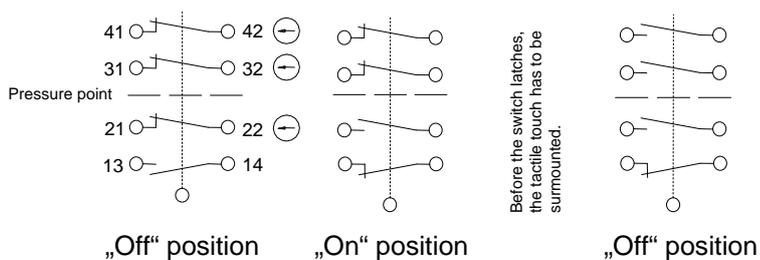
Description **F1-SU1ZCA2ZDR**

Article number **6161500690**



### Switching symbol

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



### Electrical data

Rated insulation voltage	$U_i$	250 V AC
Conv. 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 gG
Protection class	I	

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<b>Mechanical data</b>	
Enclosure	AL, die-cast
Cover	AL, die-cast
Actuator	Foot lever (PA)
Ambient air temperature	-30 °C to +80 °C
Contact type	3 N.C, 1 N.O. (Zb)
Operating force	≈ 10 N (pedal centre)
Pressure point	≈ 460 N
<b>Mechanical life</b>	
Sequence of the switching position: Off, On, Off	3 x 10 <sup>6</sup> operating cycles
or: Off, On, Latch, Off	1 x 10 <sup>6</sup> operating cycles
Switching frequency	Max. 30/min
Assembly	2 x M8
Connection	screw terminals (M3,5)
Number of connections	8
Protection ground	2 x M4
Conductor cross-sections	Solid: 0,5 ... 1,5 mm <sup>2</sup> Litz wire with ferrules: 0,5 ... 1,5 mm <sup>2</sup>
Cable entrance	3 x M20x1,5
Weight	≈ 1,5 kg
Protection type	IP65 in accordance with IEC/EN 60529
<b>Regulations</b>	
	VDE 0660 T100, DIN EN 60947-1, IEC 60947-1 VDE 0660 T200, DIN EN 60947-5-1, IEC 60947-5-1
<b>EU Conformity</b>	
	acc. to directive 2006/95/EC
<b>Approvals</b>	
	DGUV cCSA <sub>US</sub> A300(same polarity) CCC

### Safety function (Foot lever)

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 13-14 and opened the normally closed contacts 21-22.
3. In an emergency, the pedal is fully depressed (beyond the pressure point). The normally closed contacts 31-32 and 41 – 42 are force disconnected stopping the machine, simultaneously the latch engages and holds the contacts 31-32 and 41-42 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 degree of protection specified (IP code) applies only to a properly closed protective guard and the use of an equivalent cable gland with adequate cable.

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