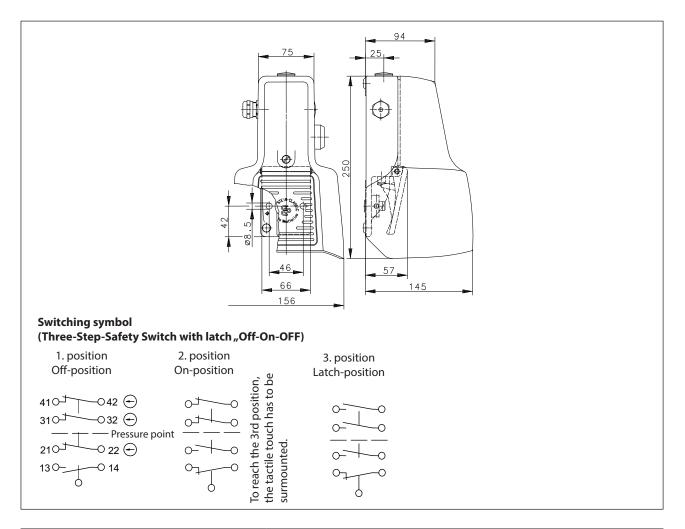


## **Foot-switch**

Series F1

### Description F1-SU1ZCA2ZDR UN

Article number 6161000626



Electrical Data		
Rated insulation voltage	Ui	250 V AC
Conv. thermal current	$I_{the}$	10 A
Rated operational voltage	$U_{e}$	240 V
Utilization category		AC-15, U ٟ /l ֲ 240 V AC / 3 A
Direct opening action	$\ominus$	acc. to IEC/EN 60947-5-1, annex K
Short-circuit protective device		Fuse 2 A gG
Protection class		Ι

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# **Technical Data**



Mechanical data			
Enclosure		AL, die-cast	
Protective guard (Accident protection	on cover UN)	AL, die-cast	
Actuator		Foot lever (PA)	
Ambient air temperature		-30 °C to +80 °C	
Contact type		3 NC, 1 NO. (Zb)	
Operating force (pedal centre)		$\approx$ 10 N (pedal centre)	
Pressure point		≈ 200 N	
Mechanical life Sequence of the switching position: or:		3 x 10 <sup>6</sup> operating cycles 1 x 10 <sup>6</sup> operating cycles	
Switching frequency		max. 30/min	
Assembly		2 x M8	
Connection		screw connections (M3,5)	
Number of connections		8	
Protection ground		2 x M4	
Conductor cross-sections		Solid: 0,5 1,5 mm² Litz wire with ferrules: 0,5 1,5 mm²	
Cable entrance		2 x M20 x 1,5 ; 1 x cable gland M20 x 1,5 (clamping-range 6 – 12 mm);	
Weight		≈ 1,5 kg	
Protection type		IP65 in accordance with IEC/EN 60529	

ID for safety engineering		
B10d	2 x 10 <sup>6</sup> Schaltspiele	
Regulations		

Regulations	
	VDE 0660 T100, DIN EN 60947-1, IEC 60947-1
	VDE 0660 T200, DIN EN 60947-5-1, IEC 60947-5-1
	DIN EN ISO 13849-1

#### **EU Conformity**

acc. to directive 2006/42/EG

Approvals	
	DGUV
	<sub>c</sub> CSA <sub>US</sub> A300 (same polarity)
	CCC

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#### Function

Three-stage safety switch with latching

The safety contact element consists of two adjoining switching systems which guarantee a normal work flow and in the case of an emergency the safety function "emergency-stop".

- 1. The normal work flow is initiated by pressing down the pedal to the pressure point, whereby
- the contacts 13 14 closed and 21 22 are opened in succession.
- 2. 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.

The working process continues.

#### Notes

The degree of protection specified (IP code) applies only to a properly closed protective guard and the appropriate cable is used, in accordance with the clamping range of the above mentioned cable gland.

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