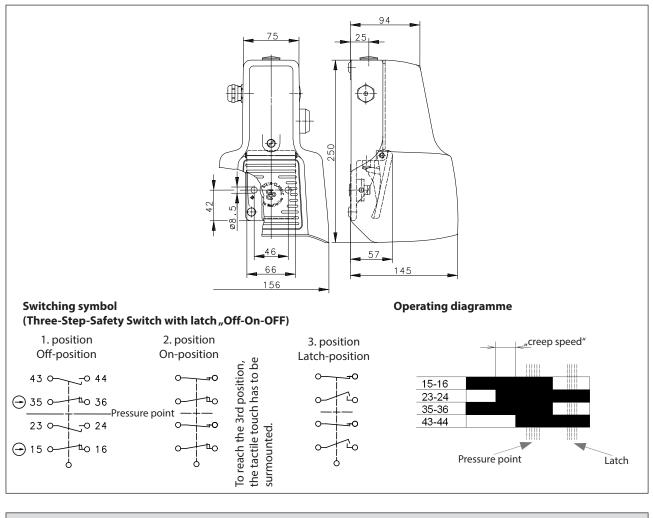


Foot-switch

Series F1 UN

Description F1-UV1Z/UV1ZD UN

Article number 6161000451



Electrical Data		
Rated insulation voltage	U _i	400 V AC
Conv. thermal current	I_{the}	10 A
Rated operational voltage	U_{e}	240 V
Utilization category		AC-15, U ٟ /I ٟ 240 V AC / 3 A
Direct opening action	\ominus	acc. to IEC/EN 60947-5-1, annex K
Short-circuit protective device		Fuse 10 A gG
Protection class		Ι

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Technical Data



Mechanical data	
Enclosure	AL, die-cast
Protective guard (Accident protection cover UN)	AL, die-cast
Actuator	Foot lever (PA)
Ambient air temperature	-30 °C to +80 °C
Contact type	2 NC, 2 NO. (Zb)
Operating force (pedal centre)	\approx 10 N (pedal centre)
Pressure point	≈ 200 N
Mechanical life	10 x 10 ⁶ operating cycles
Switching frequency	max. 50/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

20 x 10⁶ cycles

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 2006/95/EG

Approvals

cCSA{us} A300 (same polarity)

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Technical Data



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 23 – 24 and 43 – 44 are closed in succession.

2. In the case of an emergency, the pedal is pressed as far as it will go beyond the pressure point. The NC contacts (15 – 16 and 35 – 36) are force-opened and thereby the work process stops. At the same time, the automatic latching function is activated and holds the contacts (15 – 16 and 35 – 36) in "emergency-stop position". This reliably prevents uncontrolled restart of the machine or moving parts.

Safety for man and machine!

3. Only after the release of the pushbuttons on the side of the enclosure, the contacts will be released again and can be closed again by pressing the pedal beyond resistance of the pressure point. 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.