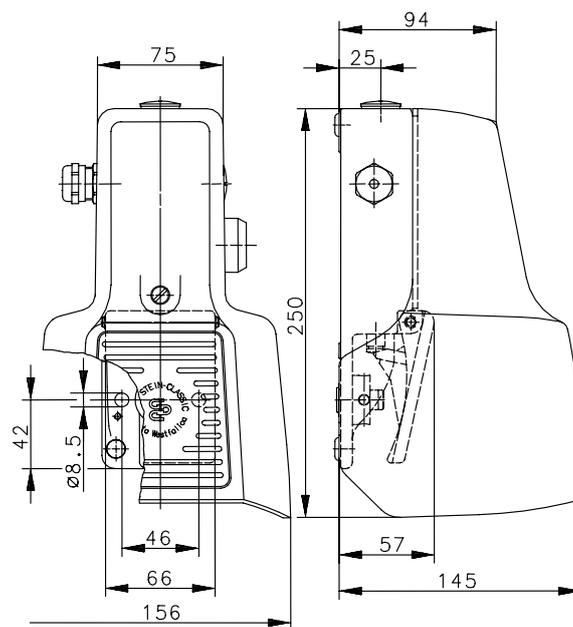


Foot-switch Series F1 UN

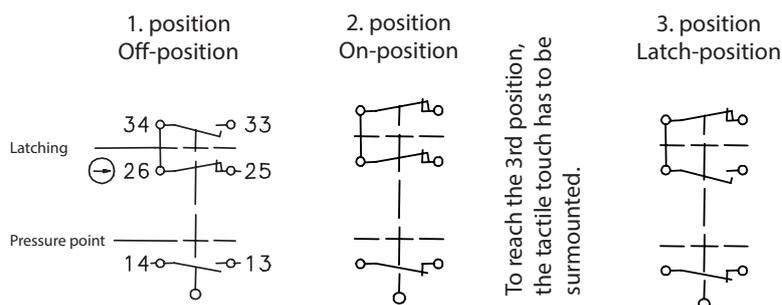
Description **F1-SU1ZUV1ZDR**

Article number **6161000403**



Switching symbol

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



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_e / I_e 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		I

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	1 NC, 2 NO (Zb)
Operating force (pedal centre)	10 N
Pressure point	≈ 460 N
Mechanical life	
without actuating the pressure point	10 x 10 ⁶ operating cycles
with actuating the pressure point	1 x 10 ⁶ operating cycles
Switching frequency	max. 50/min
Assembly	2 x M8
Connection	screw connections (M3,5)
Number of connection	6 (see switching symbols)
Protection ground	2 x M4
Conductor cross-sections	Solid: 0,5 ... 1,5 mm ² Litz wire with ferrules: 0,5 ... 1,5 mm ²
Cable entrance	1 x cable gland M20 x 1,5 (clamping-range 6 – 12 mm); 2 x blind cap M20 x 1,5
Weight	≈ 1,6 kg
Protection type	IP65 in accordance with IEC/EN 60529

ID for safety engineering	
B10d	20 x 10 ⁶ cycles

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	
	cCSA _{US} A300 (same polarity)
	CCC

Safety function (Foot lever) – left pedal

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 contact 25 – 26 is force disconnected stopping the machine, simultaneously the latch engages and holds the contact 25 – 26 in this “Emergency stop” status, preventing an unauthorised re-start of the machine.
„Safety for man and machine“
4. 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.