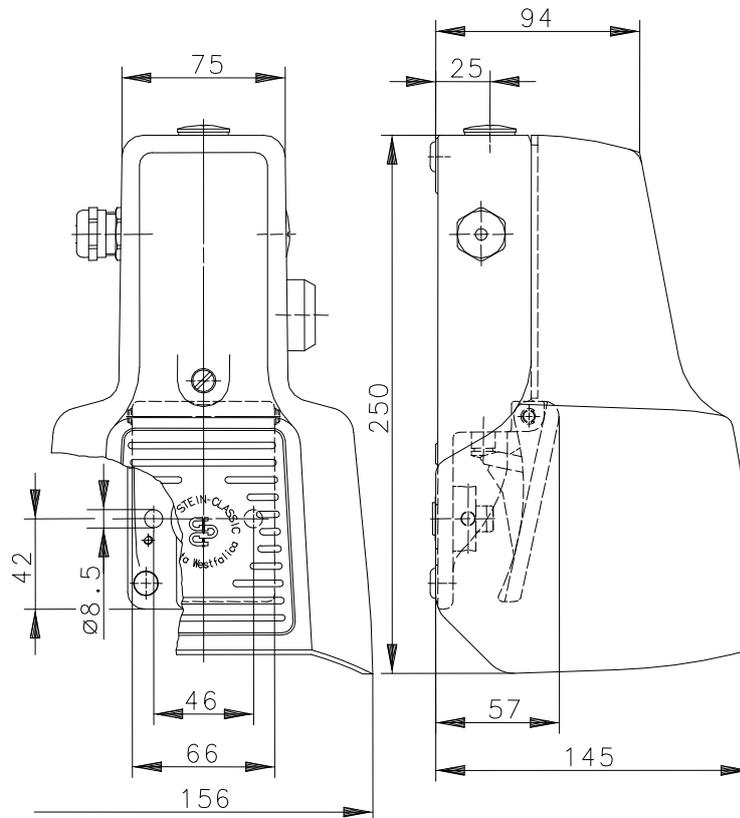


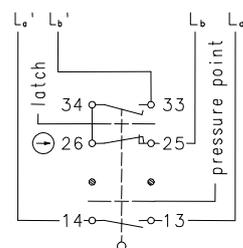
Series F1 UN

Description **F1-SU1ZUV1ZDR UN**

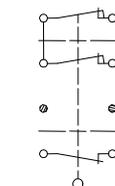
Article number **6161000203**



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

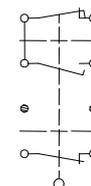


„Off“ position



„On“ position

Before the switch latches,
the tactile touch has to be surmounted.



„latch“ position

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	\ominus	IEC/EN 60947-5-1
Short-circuit protective device		Fuse 2 A gG IEC/EN 60947-5-1
Protection class		I

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Mechanical data

Enclosure	AL, die-cast
Protective guard (Accident protection cover UN)	AL, die-cast
Actuatore	Foot level (PA)
Ambient air temperature	-30 °C ... +80 °C
Contact type	1 N.C, 2 N.O (Zb)
Shifting force	approx. 10 N (pedal centre)
Pressure point	approx. 200 N
Mechanical life	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	1 x M20x1,5; 1 x tight cable gland M20 x 1,5 (tightness-range 6-12 mm)
Weight	approx. 1,5 kg
Protection type	IP65 in accordance with IEC/EN 60529

ID for safety engineering

B10d	2 x 10 ⁶ switching cycles
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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

acc. to Directive 2006/42/EC

Approvals

DGUV
cCSA_{US}, A300 (same polarity)
CCC

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 13-14 and contacts 33-34 one after another.
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 25-26 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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