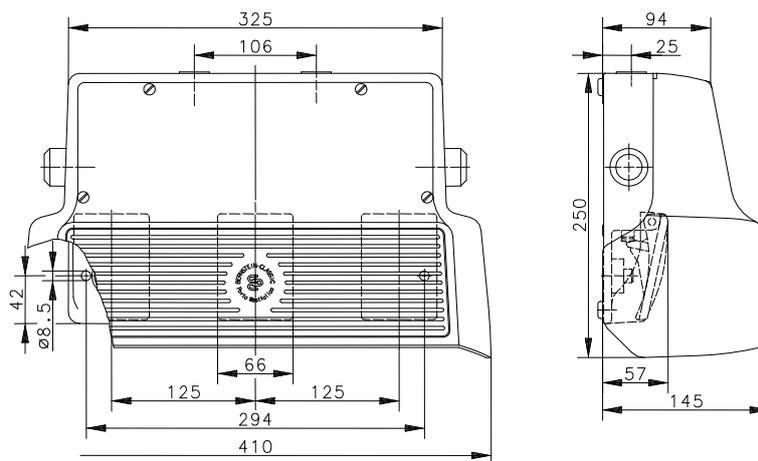


# Foot-switch Series F3 UN

Description **F3-SU1UV1ZDR/U1Z/SU1UV1ZDR UN**

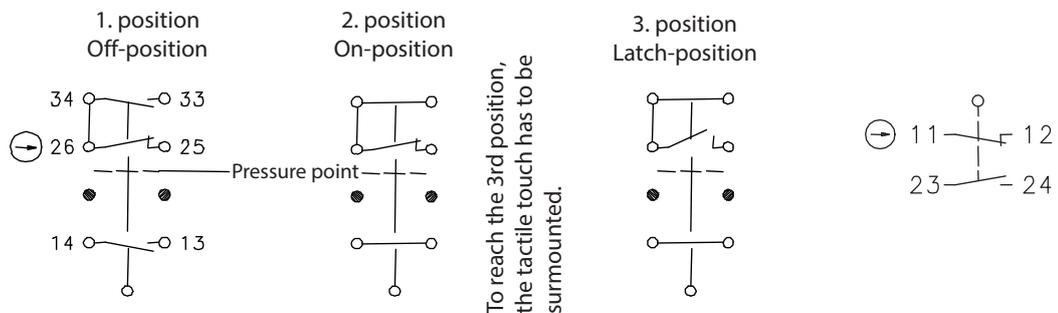
Article number **6163015473**



**Switching symbols**

Pedal left and right  
(Three-Step-Safety Switch with latch „Off-On-OFF)

Pedal middle



**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	$\rightarrow$	acc. to IEC/EN 60947-5-1, annex K
Short-circuit protective device		Fuse 2 A gG
Protection class		I

Mechanical data		
Enclosure		AL, sand casting
Protective guard (Accident protection cover UN)		AL, sand casting
Actuator		Foot lever (PA)
Ambient air temperature		-30 °C to +80 °C
Contact type		3 NC, 5 NO. (Zb)
Operating force		≈ 10 N (pedal centre)
Pressure point	Pedal left and right	≈ 200 N
Mechanical life		10 x 10 <sup>6</sup> operating cycles 1 x 10 <sup>6</sup> operating cycles (with pressure point)
Switching frequency		max. 50/min
Assembly		2 x M8
Connection		screw connections (M3,5)
Number of connections		16 (see switching symbols)
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		2 x M20 x 1,5
Weight		≈ 5,3 kg
Protection type		IP65 in accordance with IEC/EN 60529

ID for safety engineering		
B10d	Pedal left and right	2 x 10 <sup>6</sup> cycles
B10d	center Pedal	20 x 10 <sup>6</sup> 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 2014/35/EU

Approvals	
	cCSA <sub>US</sub> A300 (same polarity)
	CCC

**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 33 – 34.
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 13 – 14 and 33 – 34 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 degree of protection specified (IP code) applies only to a properly closed cover and the use of an equivalent cable gland with adequate cable.