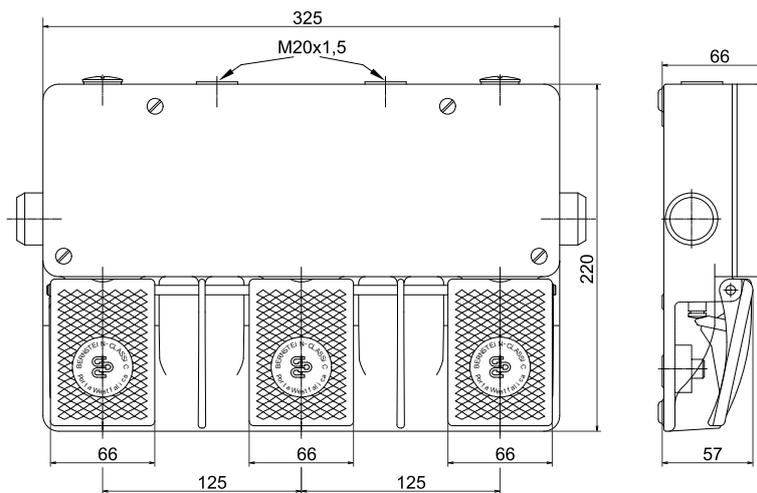


Foot-switch Series F3

Description **F3-SU1ZA2ZDR/SU2ZD/SU1ZA2ZDR**

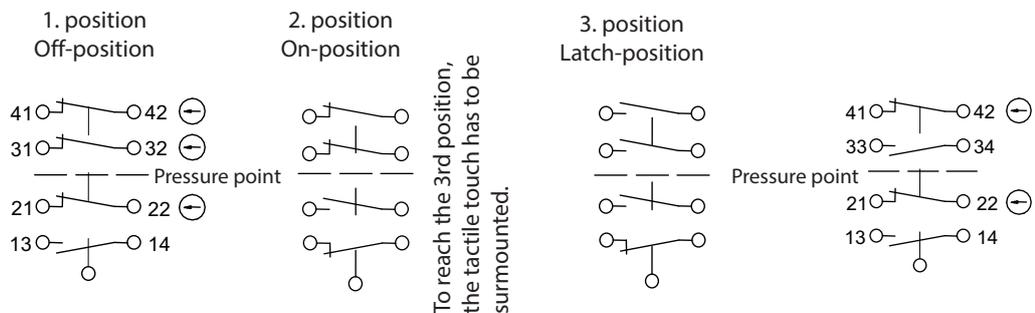
Article number **6163500703**



Switching symbols

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

center Pedal



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, 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		8 NC, 4 NO. (Zb)
Operating force		≈ 10 N (pedal centre)
Pressure point	Pedal left and right	≈ 200 N
	center Pedal	≈ 30 N
Mechanical life	Pedal left and right	
Sequence of the switching position:	Off, On, Off	3 x 10 ⁶ operating cycles
or:	Off, On, Latch, Off	1 x 10 ⁶ operating cycles
Mechanical life	center Pedal	10 x 10 ⁶ operating cycles
Switching frequency		max. 30/min
Assembly		2 x M8
Connection		screw connections (M3,5)
Number of connections		24 (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		2 x M20 x 1,5
Weight		≈ 3,3 kg
Protection type		IP65 in accordance with IEC/EN 60529

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

Approvals	
	CCC

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 cover and the use of an equivalent cable gland with adequate cable.