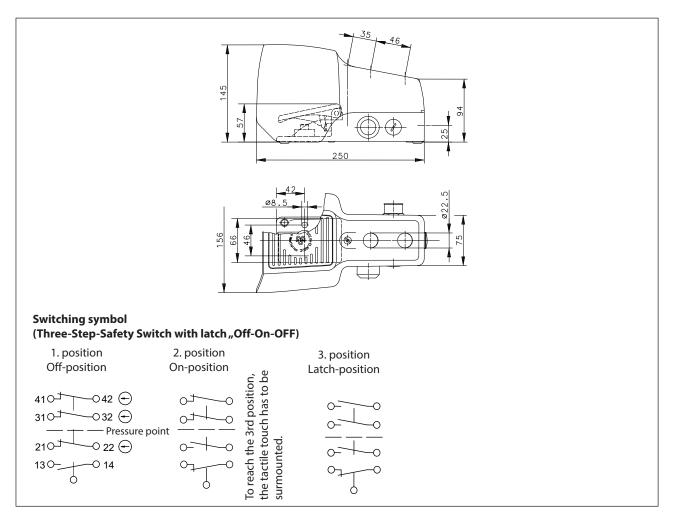


Foot-switch

Series F1

Description F1-SU1ZHVGA2ZDR UN

Article number 6161000608



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 / 3 A
Direct opening action	\odot	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, colour: white
Actuator	Foot lever (PA)
Ambient air temperature	-30 °C to +80 °C
Contact type	3 NC, 1 NO. (Zb)
Contacts (Inserted switch 1)	0,8 μ fine gold-plated (Our guideline values are valid for the gold- plated switch contacts.)
Operating force (pedal centre)	≈ 10 N (pedal centre)
Pressure point	≈ 200 N
Mechanical life Sequence of the switching position: Off, On, Off or: Off, On, Latch, Off	3 x 10 ⁶ operating cycles 1 x 10 ⁶ operating cycles
Switching frequency	max. 30/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 mm ² Litz wire with ferrules: 0,5 1,5 mm ²
Cable entrance	2 x M20 x 1,5; 1 x M25 x 1,5
Weight	≈ 1,5 kg
Protection type	IP65 in accordance with IEC/EN 60529

ID for safety engineering	
B10d	2 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	

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.

BERNSTEIN AG . Hans-Bernstein-Straße 1 . 32457 Porta Westfalica . www.bernstein.eu

Technical Data



Notes

Unused threaded holes and openings for fitted parts are to be permanently closed with blanking plugs or with the appropriate fitted inserts

The degree of protection specified (IP code) applies only to a properly closed protective guard and the use of an equivalent cable gland with adequate cable, blanking plugs, fitted inserts or sealing plugs.