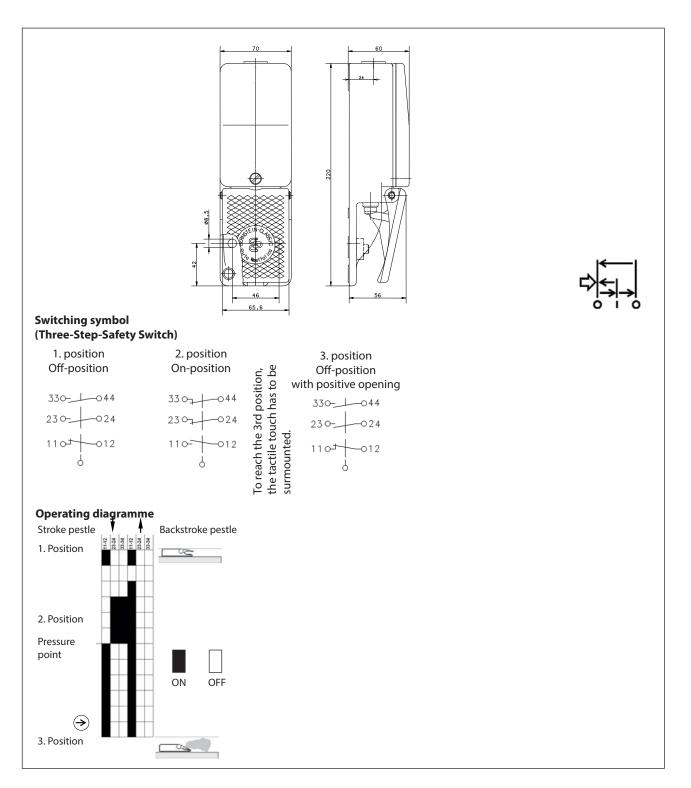


Foot-switch

Series F1

Description F1-ZSD

Article number 6061500559



BERNSTEIN AG . Hans-Bernstein-Straße 1.

Technical modifications and errors excepted.

The technical datasheet corresponds to the technical state as of 2015-10-30 and will not be removed in case of changes.

Technical Data



Electrical Data		
Rated insulation voltage	Ui	250 V
Conv. thermal current	l _{the}	5 A
Rated impulse withstand voltage	U_{imp}	2,5 KV
Rated operational voltage	U _e	240 V AC and 24 V DC
Utilization category		AC-15, U ၙ /l ၙ 240 V AC / 1,5 A 50-60 Hz DC-13, U ၙ /l ၙ 24 V DC/ 1,0 A
Direct opening action	\ominus	acc. to IEC/EN 60947-5-1, annex K (pedal stop)
Short-circuit protective device		D-Fuse 4 A gG
Protection class		Ι

Mechanical data		
Enclosure		AL, die-cast
Protective guard (Accident protect	ion cover UN)	AL, die-cast
Actuator		Foot lever (PA)
Ambient air temperature		Operating temperature range: -10 °C to +50 °C Storage temperature range: -25 °C to +70 °C
Contact type (each pedal)		1 NC, 2 NO. (Zb)
Operating force (pedal centre)	1. position 2. position	10 N 25 N
Pressure point (each pedal)		≈ 200 N
Mechanical life (each pedal) Sequence of the switching positior o	n: 1 – 2 – 1 r: 1 – 2 – 3 – 1	10 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)
Protection ground		2 x M4
Conductor cross-sections		Solid: 0,5 1,5 mm² Litz wire with ferrules: 0,5 1,5 mm²
Cable entrance		1 x M20 x 1,5
Weight		≈ 1,6 kg
Protection type		IP67 in accordance with IEC/EN 60529

ID for safety engineering	
B10d	
Sequence of the switching position: 1 – 2 – 1	10 x 10 ⁶ cycles
or: 1–2–3–1	1 x 10 ⁶ cycles

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VDE 0660 T100, DIN EN 60947-1, IEC 60947-1 VDE 0660 T200, DIN EN 60947-5-1, IEC 60947-5-1 DIN EN 61326-3-1 DIN EN ISO 13849-1

EU Conformity

acc. to directive 2006/95/EG

Approvals

DGUV _cUL_{us}

Function

Normally open contacts: 23 – 24, 33 – 44; Signalling contact: 11 – 12

- Position 1: OFF position of the operating contacts (the pedal is not actuated)
- Position 2: ON position of the operating contacts (the pedal is actuated to as far as the pressure point)
- Position 3: OFF position of the operating contacts (the pedal is fully actuated)

If the three-stage enable switch is actuated in position 2, it returns to position 1 when it is released. The threestage enable switch changes from position 2 to position 3, if it gets further pressed unter after the resistance of the pressure point.

The actuation of the operating contacts is made by a positive opening.

Once the pedal is not pressed, the three-stage enable switch returns to position 1.

The operating contacts are opened in the return stroke.

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.