

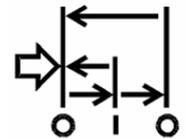
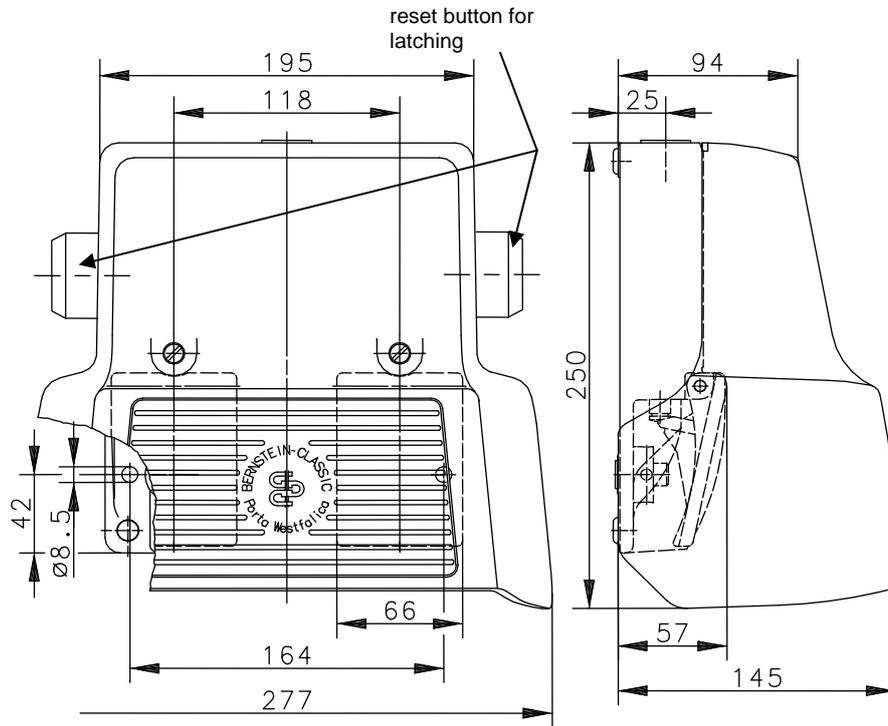
Series F2

Description

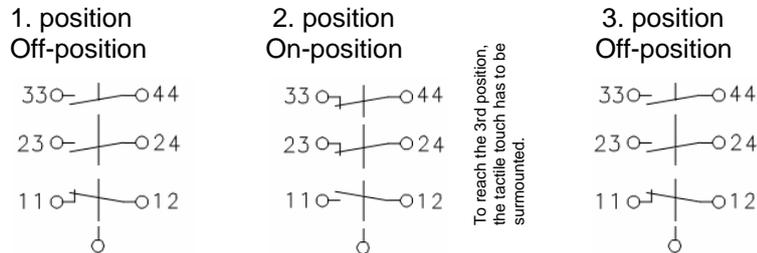
F2-ZSDR/ZSDR UN

Article number

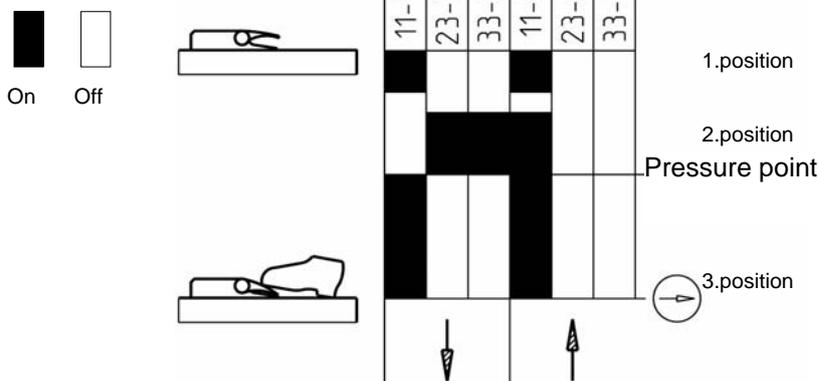
6162000744



Switching symbol (applies to both pedals)
(Three-Step-Safety Switch)



Operating diagramme
(applies to both pedals)



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Technical Data

Foot-switch

Electrical data	
Rated insulation voltage	U_i 250 V
Conv. thermal current	I_{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_e/I_e 240 V AC / 1,5 A 50-60 Hz DC-13, U_e/I_e 24 V DC/ 1,0 A
Direct opening action	⊖ acc. to IEC/EN 60947-5-1, Annex K
Short-circuit protective device	D-Fuse 4 A gG
Protection class	I

Mechanical data	
Enclosure	AL, die-cast
Protective guard (Accident protection 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)
Contacts	fine gold-plated (Our guideline values are valid for the gold-plated switch contacts.)
Operating force (pedal centre) (each pedal)	1. position 10 N 2. position 25 N
Pressure point (each pedal)	≈ 200 N
Mechanical life (each pedal)	
Sequence of the switching position:	1 – 2 – 1 10 x 10 ⁶ operating cycles
or:	1 – 2 – 3 – 1 1 x 10 ⁶ operating cycles
Switching frequency	max. 50/min
Assembly	2 x M8
Connection	screw connections (M3,5)
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	1 x M20 x 1,5
Weight	Approx. 2,3 kg
Protection type	IP67 in accordance with IEC/EN 60529

ID for safety engineering	
B10d - value	1 x 10 ⁵

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 61326-3-1
	EN ISO 13849
	DIN EN 60947-5-8

EU Conformity	
	acc. to directive 2006/42/EG

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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 three-stage enable switch is locked)

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

The switch is locked in position 3 and can only be returned in position 1 by pressing the release button.

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

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.