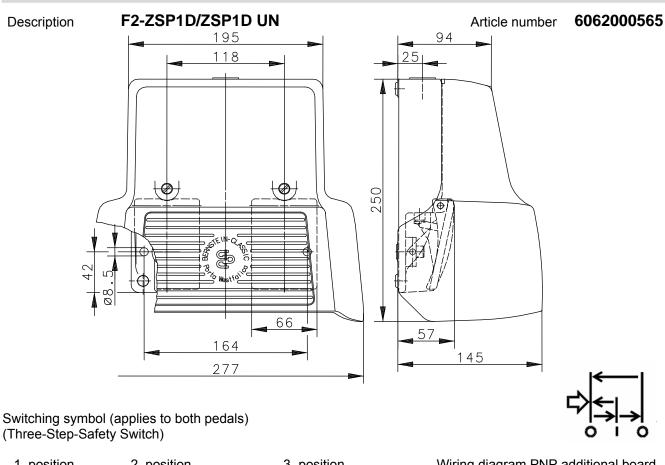
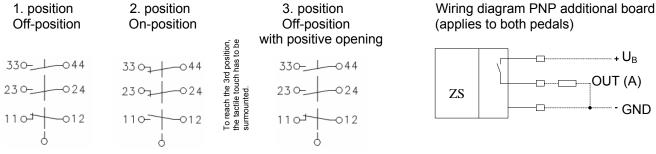
Technical Data

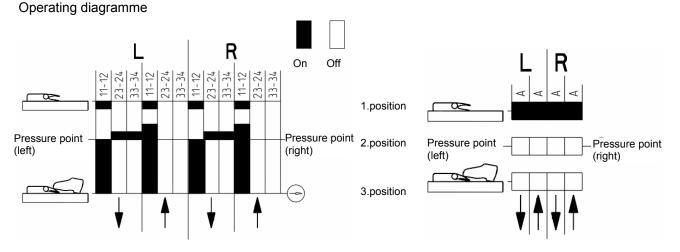
Foot-switch



Series F2 UN



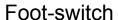




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Technical Data





Electrical data PNP additional board		
Switching element function		PNP, N.O.
Operational voltage range	U_B	10 - 39 V DC
Switching current		400 mA
Operational current		< 20 mA
Voltage drop	U_d	≤ 1,5 V
Short-circuit protection		pulsed
False polarity protection		yes

Electromagnetic compatibility (EMC) PNP ad	ditional board	
Electromagnetic field test	IEC 61000-4-3	
Electrostatic discharge test	IEC 61000-4-2	
Electrical fast transient immunity test	IEC 61000-4-4	
Radiated disturbance field strength	EN 55011	
Flootrical data and the annitals		

Electrical data safety switch		
Rated insulation voltage	Ui	250 V
Conv. thermal current	I _{the}	5 A
Rated impulse withstand voltage	Uimp	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	Θ	acc. to IEC/EN 60947-5-1, Annex K
Short-circuit protective device		D-Fuse 4 A gG
Protection class		T. Control of the con

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)
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. 30/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	IP66 / IP67 in accordance with IEC/EN 60529

ID for safety engineering		
B10d - value	1 x 10 ⁵	

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Technical Data

Foot-switch



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 13849
EU Conformity	acc. to directive 2006/95/EG
Approvals	$_{ m c}$ UL $_{ m us}$

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 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 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.

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