

1) Pressure resistant area



Basic features

Additional features	Housing resistant to weld spatter
Approval/Conformity	CE UKCA cULus WEEE
Basic standard	IEC 60947-5-2
Display/Operation	
Function indicator	yes
Power indicator	no
Electrical connection	
Connection	M12x1-Male, 3-pin, A-coded
Polarity reversal protected	yes
Protection against device mix-ups	yes
Short-circuit protection	yes

Electrical data

Load capacitance max. at Ue	1 µF
Min. operating current I _m	0 mA
No-load current I _o max., damped	7 mA
No-load current I _o max., undamped	3 mA
Operating voltage U _b	10...30 VDC
Output resistance R _a	Open collector
Rated insulation voltage U _i	75 V DC
Rated operating current I _e	200 mA
Rated operating voltage U _e DC	24 V
Rated short circuit current	100 A
Ready delay t _v max.	22 ms
Residual current I _r max.	10 µA
Ripple max. (% of U _e)	10 %
Switching frequency	750 Hz
Utilization category	DC-13
Voltage drop static max.	2 V

Environmental conditions

Ambient temperature	-25...70 °C
Contamination scale	3
EN 60068-2-27, Shock	Half-sinus, 30 g _n , 11 ms
EN 60068-2-6, Vibration	55 Hz, amplitude 1 mm, 3x30 min
IP rating	IP67

Interface

Switching output	NPN normally open (NO)
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Material

Housing material	Stainless steel, PTFE coated
Material sensing surface	Stainless steel

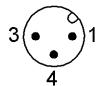
Mechanical data

Dimension	Ø 8 x 65 mm
Installation	for flush mounting
Mounting length	44.50 mm
Pressure rating max.	80 bar
Pressure rating, note	Pressure-resistant
Size	M8x1
Tightening torque	6 Nm ±10 %

Remarks

The sensor is functional again after the overload has been eliminated.

When installing in non-ferromagnetic metals, the distance x must be considered. This dimension x is described in the document "BES 2SN STEELFACE". Since the nuts supplied are made of non-ferromagnetic metal, the specified dimension x also applies here. Mounting, where the nuts are close to the active surface, is not intended.

Connector Drawings**Wiring Diagrams**