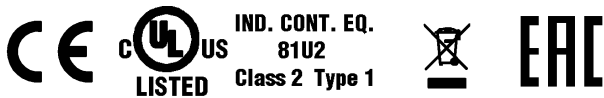


1) Sensing surface Ø8



### Basic features

Approval/Conformity	CE cULus EAC WEEE
Basic standard	IND. CONT. EQ. 81U2 Class 2 Type 1 IEC 60947-5-2

### Display/Operation

Function indicator	yes
Power indicator	no

### Electrical connection

Connection	M8x1-Male, 3-pin
Polarity reversal protected	yes
Protection against device mix-ups	yes
Short-circuit protection	yes

### Electrical data

Load capacitance max. at $U_e$	1 $\mu$ F
Min. operating current $I_m$	0 mA
No-load current $I_o$ max., damped	4 mA
No-load current $I_o$ max., undamped	9 mA
Operating voltage $U_b$	10...30 VDC
Output resistance $R_a$	33.0 kOhm + D
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.	10 ms
Residual current $I_r$ max.	80 $\mu$ A
Ripple max. (% of $U_e$ )	15 %
Switching frequency	400 Hz
Utilization category	DC -13
Voltage drop static max.	2.5 V

### Environmental conditions

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

### Material

Housing material	PA 12
Material sensing surface	PA 12

## Mechanical data

Dimension	40 x 12 x 26 mm
Installation	for flush mounting
Size	40x12x26
Tightening torque	0.25 Nm

## Output/Interface

Switching output	PNP normally closed (NC)
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## Range/Distance

Assured operating distance Sa	1.6 mm
Hysteresis H max. (% of Sr)	15.0 %
Rated operating distance Sn	2 mm
Real switching distance sr	2 mm
Repeat accuracy max. (% of Sr)	5.0 %
Temperature drift max. (% of Sr)	10 %
Tolerance Sr	±10 %

## Remarks

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

## Connector Drawings



## Wiring Diagrams

