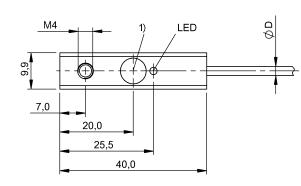
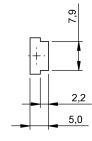
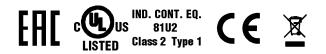
Inductive Sensors BES P03ME-POC20B-EP05 Order Code: BES04TY





1) Sensing surface



Basic features

Approval/Conformity	cULus
	CE
	EAC
	WEEE
Basic standard	IEC 60947-5-2
Display/Operation	

yes

no

Function indicator

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Electrical connection

Cable diameter D	2.40 mm
Cable length L	5 m
Conductor cross-section	0.10 mm ²
Connection type	Cable, 5.00 m, PUR
Number of conductors	3
Polarity reversal protected	yes
Protection against device mix-ups	yes
Short-circuit protection	yes

Electrical data

Load capacitance max. at Ue	0.5 μF
No-load current lo max., damped	2 mA
No-load current lo max., undamped	6 mA
Operating voltage Ub	1030 VDC
Output resistance Ra	Open drain
Rated insulation voltage Ui	75 V DC
Rated operating current le	100 mA
Rated operating voltage Ue DC	24 V
Rated short circuit current	100 A
Ready delay tv max.	21 ms
Residual current Ir max.	10 µA
Ripple max. (% of Ue)	15 %
Switching frequency	5000 Hz
Utilization category	DC -13
Voltage drop static max.	2 V

Environmental conditions

Ambient temperature	-2570 °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

Functional safety

MTTF (40 °C)

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Material		Output/Interface	
Housing material	Brass, Nickel-free coated	Switching output	PNP normally closed (NC)
Housing material, surface protection	Nickel-free coated		
Material jacket	PUR	Range/Distance	
Material sensing surface	PBT	Assured operating distance Sa	1.6 mm
		Hysteresis H max. (% of Sr)	15.0 %
Mechanical data		Rated operating distance Sn	2 mm
Dimension	40 x 9.9 x 5 mm	Real switching distance sr	2 mm
Installation	for flush mounting	Repeat accuracy max. (% of Sr)	1.0 %
		Switching distance marking	••
		Temperature drift max. (% of Sr)	10 %
		Tolerance Sr	±10 %

Remarks

The sensor is functional again after the overload has been eliminated. For more information about MTTF and B10d see MTTF / B10d Certificate

Indication of the MTTF- / B10d value does not represent a binding composition and/or life expectancy assurance; these are simply experiential values with no warranty implications. These declared values also do not extend the expiration period for defect claims or affect it in any way.

Wiring Diagrams

