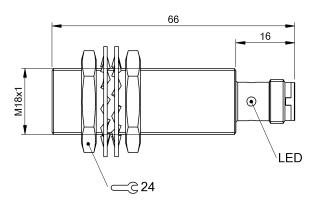
Inductive Sensors BES M18MI-PSC12B-S04G Ordercode: BES05EU

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yes no

Display/Operation

Function indicator	
Power indicator	

Electrical connection

Connection	M12x1-Male, 3-pole, 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
No-load current lo max., damped	11 mA
No-load current lo max., undamped	7 mA
Operating voltage Ub	1030 VDC
Output resistance Ra	100.0 kOhm
Protection class	II
Rated insulation voltage Ui	250 V AC
Rated operating current le	200 mA
Rated operating voltage Ue DC	24 V
Rated short circuit current	100 A
Ready delay tv max.	40 ms
Residual current Ir max.	100 µA
Ripple max. (% of Ue)	10 %
Switching frequency	550 Hz
Utilization category	DC -13
Voltage drop static max.	1.2 V

Environmental conditions

Ambient temperature Contamination scale EN 60068-2-27, Shock

Internet Balluff Germany Balluff USA Balluff China

-25...70 °C 3 Half-sinus, 30 gn, 11 ms

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EN 60068-2-6, Vibration	55 Hz, amplitude 1 mm, 3x30 min
Protection degree	IP68 per BWN Pr 20
Functional safety	
MTTF (40 °C)	621 a
General data	
Approval/Conformity Basic standard	CE cULus EAC IEC 60947-5-2
Material	
Housing material Material sensing surface Surface protection	Brass PBT Nickel-free coated
Mechanical data	
Dimension Size Tightening torque	Ø 18 x 66 mm M18x1 25 Nm
Output/Interface	
Switching output Range/Distance	PNP normally open (NO)
Assured operating distance Sa Hysteresis H max. (% of Sr) Rated operating distance Sn Real switching distance sr	9.6 mm 15 % 12 mm 12 mm

For definitions of terms, see main catalog Subject to change without notice [256325]

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%
0 %

Remarks

The sensor is functional again after the overload has been eliminated. Quasi-shielded: See installation instructions for inductive sensors with extended range 825356.

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.

Connector view



Wiring Diagram

