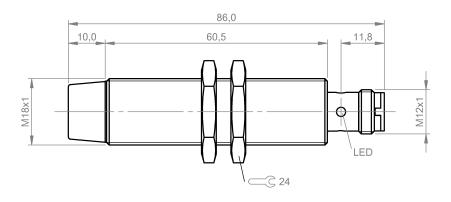
Inductive Sensors BES M18MN-PAH16F-S04G **Order Code: BES04RM**







Basic features

Approval/Conformity	CE EAC WEEE cULus
Basic standard	IEC 60947-5-2
Display/Operation	
Function indicator	yes
Power indicator	no
Electrical connection	
Connection	M12x1-Male, 4-pin, A-coded
Polarity reversal protected	yes
Protection against device mix-ups	yes
Short-circuit protection	yes

Electrical data

Load capacitance max. at Ue	0.5 μF
Min. operating current Im	0 mA
No-load current lo max., damped	13 mA
No-load current lo max., undamped	7 mA
Operating voltage Ub	1055 VDC
Output resistance Ra	33.0 kOhm + 2D
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.	35 ms
Residual current Ir max.	10 µA
Ripple max. (% of Ue)	15 %
Switching frequency	430 Hz
Utilization category	DC -13
Voltage drop static max.	2.5 V

Environmental conditions

Ambient temperature	-4085 °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	IP68

Functional safety

MTTF (40 °C)

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eCl@ss 9.1: 27-27-01-01 ETIM 6.0: EC002714 BES04RM_0.62_2022-04-21

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Interface

		itangoizi
Switching output	PNP normally open/normally closed (NO/NC)	Assured oper Hysteresis H Rated operati
Material		Real switchin
Housing material Material sensing surface Mechanical data	Brass, Nickel-free coated PBT	Repeat accur Switching dis Temperature Tolerance Sr
Dimension Installation Size Tightening torque	Ø 18 x 86 mm non-flush M18x1 25 Nm	

Range/Distance

Assured operating distance Sa	12.8 mm
Hysteresis H max. (% of Sr)	15.0 %
Rated operating distance Sn	16.0 mm
Real switching distance sr	16 mm
Repeat accuracy max. (% of Sr)	5.0 %
Switching distance marking	
Temperature drift max. (% of Sr)	15 %
Tolerance Sr	±10 %

Remarks

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

Flush: See installation instructions for inductive sensors with extended range 825357.

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 Drawings



Wiring Diagrams

