



Basic features

Approval/Conformity	CE UKCA WEEE
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 U_e	0.5 μ F
Min. operating current I_m	0 mA
No-load current I_o max., damped	17 mA
No-load current I_o max., undamped	12 mA
Operating voltage U_b	10...55 VDC
Output resistance R_a	33.0 kOhm + D/33.0 kOhm + D
Protection class	II
Rated insulation voltage U_i	250 V AC
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.	15 ms
Residual current I_r max.	20 μ A
Ripple max. (% of U_e)	15 %
Switching frequency	1000 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 g _n , 11 ms
EN 60068-2-6, Vibration	55 Hz, amplitude 1 mm, 3x30 min
IP rating	IP68

Interface

Switching output	PNP normally open/normally closed (NO/NC)
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Inductive Sensors
BES M18MI2-PAH80B-S04G
Order Code: BES0495



Material

Housing material	Brass, Nickel-free coated
Material sensing surface	PBT

Mechanical data

Dimension	Ø 18 x 83 mm
Installation	for flush mounting
Size	M18x1
Tightening torque	25 Nm

Range/Distance

Assured operating distance Sa	6.4 mm
Hysteresis H max. (% of Sr)	15.0 %
Rated operating distance Sn	8 mm
Real switching distance sr	8 mm
Repeat accuracy max. (% of Sr)	5.0 %
Switching distance marking	■ ■
Temperature drift max. (% of Sr)	10 %
Tolerance Sr	±10 %

Remarks

Flush: See installation instructions for inductive sensors with extended range 939221.
The sensor is functional again after the overload has been eliminated.

Connector Drawings



Wiring Diagrams

