

Basic features

Approval/Conformity	CE UKCA cULus WEEE
Basic standard	IEC 60947-5-2
Trademark	Global

Display/Operation

Function indicator	yes
Power indicator	no

Electrical connection

Cable diameter D	4.60 mm
Cable length L	0.15 m
Conductor cross-section	0.34 mm ²
Connection	AMP SUPERSEAL 3P, 3-pin
Connection type	Cable with connector, 0.15 m, TPU
Number of conductors	3
Polarity reversal protected	yes
Protection against device mix-ups	yes
Short-circuit protection	yes

Electrical data

Load capacitance max. at U _e	0.5 µF
Min. operating current I _m	0 mA
No-load current I _o max., damped	8 mA
No-load current I _o max., undamped	2 mA
Operating voltage U _b	10...30 VDC
Output resistance R _a	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.	30 ms
Residual current I _r max.	10 µA
Ripple max. (% of U _e)	15 %
Switching frequency	430 Hz
Utilization category	DC -13
Voltage drop static max.	2.5 V

Environmental conditions

Ambient temperature	-40...85 °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
IP rating (connector)	IP67

Functional safety

MTTF (40 °C)	587 a
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Inductive Sensors
BES M18MG-PSC16F-BP00,15-Z10
Order Code: BES05YL



Interface

Switching output PNP normally open (NO)

Material

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

Mechanical data

Dimension Ø 18 x 55 mm
 Installation non-flush
 Size M18x1
 Tightening torque 25 Nm

Range/Distance

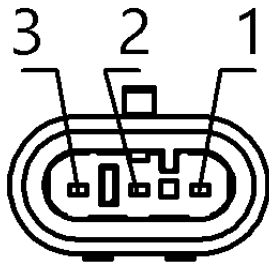
Assured operating distance Sa 12.8 mm
 Hysteresis H max. (% of Sr) 15.0 %
 Rated operating distance Sn 16.0 mm
 Real switching distance sr 16 mm
 Repeat accuracy max. (% of Sr) 5.0 %
 Switching distance marking ■■
 Temperature drift max. (% of Sr) 15 %
 Tolerance Sr ±10 %

Remarks

The sensor is functional again after the overload has been eliminated.
 Not for flush mounting: See installation instructions for inductive sensors with extended range 939229.
 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

