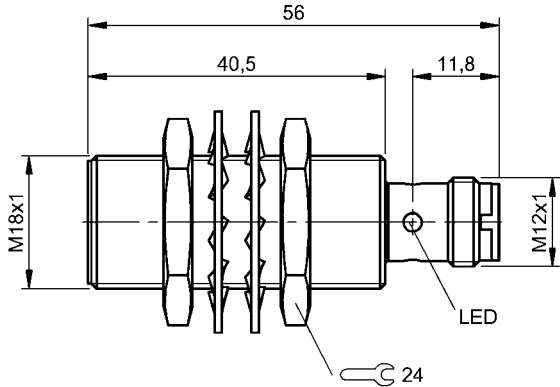


Inductive Sensors

BES M18EG1-PSC80A-S04G-S02

Order Code: BES05NC

BALLUFF



Basic features

Additional features	Factor 1
Approval/Conformity	CE UKCA cULus WEEE
Basic standard	IEC 60947-5-2
Trademark	Factor 1

Display/Operation

Function indicator	yes
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Electrical connection

Connection	Male, 3-pin
Polarity reversal protected	yes
Short-circuit protection	yes

Electrical data

Load capacitance max. at Ue	1 µF
Magnetic field strength, interference field	100 kA/m
Min. operating current Im	0 mA
No-load current Io max., damped	21 mA
No-load current Io max., undamped	17 mA
Output resistance Ra	33.0 kOhm + D
Rated short circuit current	100 A
Ready delay tv max.	30 ms
Residual current Ir max.	10 µA
Ripple max. (% of Ue)	15 %
Switching frequency	110 Hz
Voltage drop static max.	2 V

Environmental conditions

Ambient temperature	-25...70 °C
Contamination scale	3
EN 60068-2-6, Vibration	55 Hz, amplitude 1 mm, 3x30 min 30 g, 10...2000 Hz
IP rating	IP68
Magnetic field immune	magnetic field immune (AC/DC)

Functional safety

MTTF (40 °C)	365 a
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Interface

Switching output	PNP
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Material

Housing material	Stainless steel, coated
Material sensing surface	Stainless steel, coated

Mechanical data

Dimension	Ø 18 x 56 mm
Installation	for flush mounting
Mounting length	40.50 mm
Size	M18x1
Tightening torque	30 Nm

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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
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.

Connector Drawings



Wiring Diagrams

