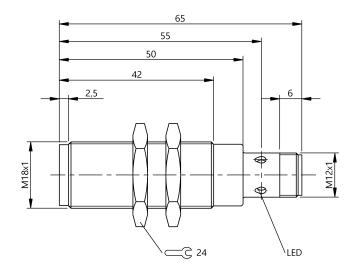
BES M18EG1-PSC50S-S04G-S

Order Code: BES02Z9







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Additional features Selective ferrous Approval/Conformity CE EAC cULus WEEE IEC 60947-5-2 Basic standard Target material Selective ferrous

Display/Operation

Function indicator yes Power indicator yes

Electrical connection

Connection M12x1-Male, 4-pin, A-coded Polarity reversal protected Protection against device mix-ups no Short-circuit protection yes

Electrical data

Min. operating current Im 0 mA 10 mA No-load current lo max., damped No-load current lo max., undamped 10 mA Operating voltage Ub 10...30 VDC Rated insulation voltage Ui 75 V DC Rated operating current le 200 mA Rated operating voltage Ue DC 24 V Rated short circuit current 100 A Ready delay tv max. 20 ms Residual current Ir max. 10 μΑ Ripple max. (% of Ue) 15 % Switching frequency 15 Hz DC -13 **Utilization category** Voltage drop static max. 2 V

Environmental conditions

-40...70 °C Ambient temperature 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 IP67 **Functional safety**

MTTF (40 °C) 990 a

Interface

Switching output PNP normally open (NO)

Inductive Sensors

BES M18EG1-PSC50S-S04G-S Order Code: BES02Z9



Material

Housing material Stainless steel

Material sensing surface Stainless steel

Mechanical data

DimensionØ 18 x 65 mmInstallationfor flush mountingSizeM18x1

Tightening torque

Range/Distance

Assured operating distance Sa 4.1 mm

Hysteresis H max. (% of Sr) 10.0 %

Rated operating distance Sn 5 mm

Real switching distance sr 5 mm

Repeat accuracy max. (% of Sr) 5.0 %

Temperature drift max. (% of Sr) 10 %

Tolerance Sr ±10 %

Remarks

EMC: Achieves severity level only with shielded connector BKSS19-14-... Connect shield to both ends.

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

Ferrous - Detects ferromagnetic steel

Non-Ferrous metals (such as aluminum, copper, brass) and austenitic steel are ignored.

30 Nm

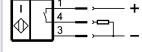
For more information about MTTF and B10d see MTTF / B10d Certificate

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



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