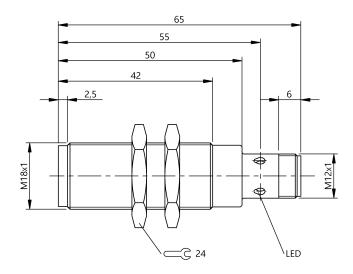
BES M18EG1-PSC50N-S04G-S

Order Code: BES02Z8











Basic features

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

Electrical data

0 mA
10 mA
10 mA
1030 VDC
75 V DC
200 mA
24 V
100 A
20 ms
10 μΑ
15 %
30 Hz
DC -13
2 V

Environmental conditions

Environmental conditions	
Ambient temperature	-4070 °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	IP67
Functional safety	
MTTF (40 °C)	990 a
Interface	

PNP normally open (NO)

Switching output

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Material

Housing materialStainless steelMaterial sensing surfaceStainless steel

Mechanical data

 Dimension
 Ø 18 x 65 mm

 Installation
 for flush mounting

 Mounting length
 42.00 mm

 Size
 M18x1

 Tightening torque
 30 Nm

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

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

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

Non-Ferrous - detection of non-ferrous metals (such as aluminum, copper, brass) and austenitic steel

ferromagnetic steel is ignored.

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 (Schematic)

