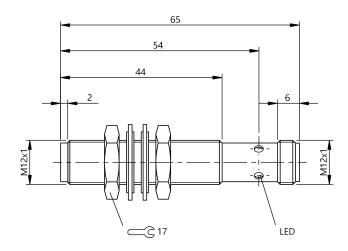
BES M12EG1-PSC20S-S04G-S

Order Code: BES02Z3









Protection against device mix-ups

Short-circuit protection



Basic features

Additional features	Selective ferrous
Approval/Conformity	CE
	WEEE
Basic standard	IEC 60947-5-2
Target material	Selective ferrous
Display/Operation	
Function indicator	yes
Power indicator	yes
Electrical connection	
Connection	M12x1-Male, 4-pin, A-coded
Polarity reversal protected	yes
•	=

yes

Electrical data

Min. operating current Im	0 mA
No-load current lo max., damped	14 mA
No-load current Io max., undamped	14 mA
Operating voltage Ub	1030 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	100 Hz
Utilization category	DC -13
Voltage drop static max.	2 V

Switching output

Environmental conditions	
Ambient temperature	-2570 °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)

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Material

Housing materialStainless steelMaterial sensing surfaceStainless steel

Mechanical data

 Dimension
 Ø 12 x 65 mm

 Installation
 for flush mounting

 Mounting length
 44.00 mm

 Size
 M12x1

 Tightening torque
 15 Nm

Range/Distance

Assured operating distance Sa 1.6 mm
Hysteresis H max. (% of Sr) 20.0 %
Rated operating distance Sn 2 mm
Real switching distance sr 2 mm
Repeat accuracy max. (% of Sr) 5.0 %
Temperature drift max. (% of Sr) 10 %
Tolerance Sr ±10 %

Remarks

EMC: Per EN60947-5-2:1998+A1:1999+A2:2004 Section 7.2.6. only when used with connector BKS S19-14-.. Shield connected at 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.

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

