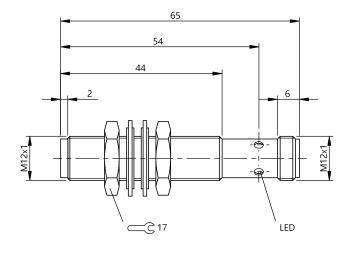
Inductive Sensors BES M12EG1-PSC20S-S04G-S **Order Code: BES02Z3**

BALLUFF







CE

Basic features

Additional features	Selective ferrous
Approval/Conformity	CE
	EAC
	WEEE
Basic standard	IEC 60947-5-2
Target material	Selective ferrous
Display/Operation	
Function indicator	yes
Power indicator	yes
Electrical connection	

M12x1-Male, 4-pin, A-coded
yes
no
yes

Electrical data

Min. operating current Im	0 mA
No-load current lo max., damped	14 mA
No-load current lo 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 µA
Ripple max. (% of Ue)	15 %
Switching frequency	100 Hz
Utilization category	DC -13
Voltage drop static max.	2 V

Environmental conditions

Ambient temperature	-2570 °C
Contamination scale	3
EN 60068-2-27, Shock	Half-sinus, 30 gn, 11 ms
EN 60068-2-6, Vibration	55 Hz, amplitude 1 mm, 3x30 min
Protection degree	IP67

Functional safety

MTTF (40 °C)

Material

Housing material Stainless steel Material sensing surface Stainless steel

990 a

Inductive Sensors BES M12EG1-PSC20S-S04G-S Order Code: BES02Z3



Mechanical data

Range/Distance

Dimension	Ø 12 x 65 mm	Assured operating distance Sa	1.6 mm	
Installation	for flush mounting	Hysteresis H max. (% of Sr)	20.0 %	
Size	M12x1	Rated operating distance Sn	2 mm	
Tightening torque	15 Nm	Real switching distance sr	2 mm	
		Repeat accuracy max. (% of Sr)	5.0 %	
Output/Interface		Temperature drift max. (% of Sr)	10 %	
Switching output	PNP normally open (NO)	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

