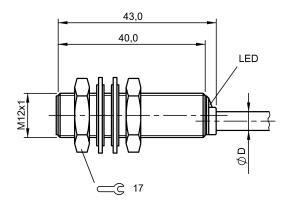
## Inductive Sensors BES M12MG-GSC30B-BV02 Order Code: BES0045





EAC

X



## IJTED

## **Basic features**

Approval/Conformity	cULus
	CE
	EAC
	WEEE
Basic standard	IEC 60947-5-2
Trademark	Global

yes no

## **Display/Operation**

Function indicator	
Power indicator	

## **Electrical connection**

Cable diameter D	4.60 mm
Cable length L	2 m
Conductor cross-section	0.34 mm <sup>2</sup>
Connection type	Cable, 2.00 m, PVC
Number of conductors	2
Polarity reversal protected	yes
Protection against device mix-ups	yes
Short-circuit protection	yes

#### Electrical data

Load capacitance max. at Ue	1 µF
Min. operating current Im	5 mA
Operating voltage Ub	1036 VDC
Rated insulation voltage Ui	75 V DC
Rated operating current le	100 mA
Rated operating voltage Ue DC	24 V
Rated short circuit current	100 A
Ready delay tv max.	50 ms
Residual current Ir max.	600 μA
Ripple max. (% of Ue)	15 %
Switching frequency	1300 Hz
Utilization category	DC -13
Voltage drop static max.	4.2 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)	315 a
Material	
Housing material	Brass
Material jacket	PVC
Material sensing surface	PA 12
Surface protection	Nickel-free coated

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# BALLUFF

#### Mechanical data

## **Range/Distance**

Dimension	Ø 12 x 43 mm	Assured operating distance Sa	2.4 mm	
Installation	for flush mounting	Hysteresis H max. (% of Sr)	20.0 %	
Size	M12x1	Rated operating distance Sn	3 mm	
Tightening torque	15 Nm	Real switching distance sr	3 mm	
		Repeat accuracy max. (% of Sr)	5.0 %	
Output/Interface		Switching distance marking	••	
Curitahing output	notorized normally open (NO)	Temperature drift max. (% of Sr)	10 %	
Switching output	polarized normally open (NO)	Tolerance Sr	±10 %	

#### Remarks

The sensor is functional again after the overload has been eliminated. Specify maximum attainable switching frequency (not per IEC 60947-5-2) Flush: See installation instructions for inductive sensors with extended range 825357. 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.

## Wiring Diagrams

