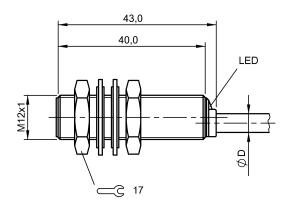
# BES M12MG-GSC30B-BV03

Order Code: BES0046











### **Basic features**

Approval/Conformity	CE
	cULus
	EAC
	WEEE
Base type deviation	Cable length
Basic standard	IEC 60947-5-2
Trademark	Global

### Display/Operation

Function indicator	yes
Power indicator	no

### **Electrical connection**

Cable diameter D	4.60 mm
Cable length L	3 m
Conductor cross-section	0.34 mm <sup>2</sup>
Connection type	Cable, 3.00 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 μΑ
Ripple max. (% of Ue)	15 %
Switching frequency	1300 Hz
Utilization category	DC -13
Voltage drop static max.	4.2 V

### **Environmental conditions**

Switching output

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)	315 a
Interface	

1/2

polarized normally open (NO)

Internet

### **Inductive Sensors**

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2.4 mm

20.0 %

3 mm

3 mm

#### Material

Housing material Brass, Nickel-free coated

Material jacket PVC
Material sensing surface PA 12

### Mechanical data

**Dimension** Ø 12 x 43 mm **Installation** for flush mounting

Size M12x1
Tightening torque 15 Nm

### Range/Distance

Assured operating distance Sa Hysteresis H max. (% of Sr) Rated operating distance Sn Real switching distance sr Repeat accuracy max. (% of Sr) Switching distance marking Temperature drift max. (% of Sr) Tolerance Sr

5.0 %

10 %

±10 %

#### Remarks

Specify maximum attainable switching frequency (not per IEC 60947-5-2)

Flush: See installation instructions for inductive sensors with extended range 825357.

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

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**

