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Connection type

Number of conductors Polarity reversal protected Protection against device mix-ups

Short-circuit protection

Dasio reatures		
Approval/Conformity	CE UKCA cULus WEFE	
Basic standard	IEC 60947-5-2	
Principle of operation	Inductive sensor	
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>	

Cable, 3.00 m, PVC

2

yes

yes

### Electrical data

1 μF
5 mA
1036 VDC
75 V DC
100 mA
24 V
100 A
50 ms
600 μΑ
15 %
1300 Hz
DC -13
5.3 V

## **Environmental conditions**

Ambient temperature Contamination scale EN 60068-2-27, Shock EN 60068-2-6, Vibration IP rating	-2570 °C 3 Half-sinus, 30 g <sub>n</sub> , 11 ms 55 Hz, amplitude 1 mm, 3x30 min IP67
Functional safety	
MTTF (40 °C)	315 a
Interface	

Subject to change without notice: 170652

Switching output Non-polarized normally closed (NC)

# BES M12MG-UOC30B-BV03 Order Code: BES03HM



#### Material

Housing material Brass, Nickel-free coated

Material jacketPVCMaterial sensing surfacePA 12

#### Mechanical data

 Dimension
 Ø 12 x 43 mm

 Installation
 for flush mounting

 Mounting length
 40.00 mm

 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 %

2.4 mm

20.0 %

3 mm

3 mm

#### Remarks

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

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

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 (Schematic)