



### Basic features

Approval/Conformity	cULus CE UKCA WEEE
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	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 U <sub>e</sub>	1 µF
Min. operating current I <sub>m</sub>	5 mA
Operating voltage U <sub>b</sub>	10...36 VDC
Rated insulation voltage U <sub>i</sub>	75 V DC
Rated operating current I <sub>e</sub>	100 mA
Rated operating voltage U <sub>e</sub> DC	24 V
Rated short circuit current	100 A
Ready delay t <sub>v</sub> max.	50 ms
Residual current I <sub>r</sub> max.	600 µA
Ripple max. (% of U <sub>e</sub> )	15 %
Switching frequency	600 Hz
Utilization category	DC -13
Voltage drop static max.	4.2 V

### Environmental conditions

Ambient temperature	-25...70 °C
Contamination scale	3
EN 60068-2-27, Shock	Half-sinus, 30 g <sub>n</sub> , 11 ms
EN 60068-2-6, Vibration	55 Hz, amplitude 1 mm, 3x30 min
IP rating	IP67

### Interface

Switching output	polarized normally closed (NC)
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### Material

Housing material	Brass, Nickel-free coated
Material jacket	PVC
Material sensing surface	PA 12

Inductive Sensors  
**BES M18MG-GOC70B-BV02**  
Order Code: **BES02NT**

**BALLUFF**

**Mechanical data**

Dimension	Ø 18 x 46 mm
Installation	for flush mounting
Size	M18x1
Tightening torque	25 Nm

**Range/Distance**

Assured operating distance Sa	5.6 mm
Hysteresis H max. (% of Sr)	20.0 %
Rated operating distance Sn	7 mm
Real switching distance sr	7 mm
Repeat accuracy max. (% of Sr)	5.0 %
Switching distance marking	■ ■
Temperature drift max. (% of Sr)	10 %
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.

**Wiring Diagrams**

