











basic realures	Ва	sic	features
----------------	----	-----	----------

Short-circuit protection

Approval/Conformity	CE
	UKCA
	cULus
	WEEE
Basic standard	IEC 60947-5-2
Principle of operation	Inductive sensor
Trademark	Global
Display/Operation	
Display/Operation	
Function indicator	yes
Power indicator	no
Electrical connection	
Connection	M8x1-Male, 3-pin
Polarity reversal protected	yes
Protection against device mix-ups	yes

yes

### Electrical data

Load capacitance max. at Ue	1 μF
Min. operating current Im	0 mA
No-load current lo max., damped	10 mA
No-load current lo max., undamped	5 mA
Operating voltage Ub	1230 VDC
Output resistance Ra	33.0 kOhm + D
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.	30 ms
Residual current Ir max.	20 μΑ
Ripple max. (% of Ue)	15 %
Switching frequency	700 Hz
Utilization category	DC -13
Voltage drop static max.	2.5 V

#### **Environmental conditions**

Switching output

Subject to change without notice: 225276

-2570 °C
3
Half-sinus, 30 g <sub>n</sub> , 11 ms
55 Hz, amplitude 1 mm, 3x30 min
IP67
880 a

NPN normally open (NO)

# BES M08MI-NSC20B-S49G Order Code: BES002U



#### Material

Housing materialBrass, nickel-platedMaterial sensing surfacePA 12

Mechanical data

 Dimension
 Ø 8 x 59 mm

 Installation
 for flush mounting

 Mounting length
 50.00 mm

 Size
 M8x1

 Tightening torque
 3 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

1.6 mm 15.0 % 2 mm 2 mm 5.0 %

10 % ±10 %

#### Remarks

EMC: For operating conditions with noise sources

External protection circuit is required. Document 825345.

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.

## **Connector Drawings**



## Wiring Diagrams (Schematic)

