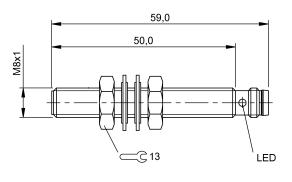
Inductive Sensors BES M08MI-NSC20B-S49G Order Code: BES002U

BALLUFF





no

Basic features

Approval/Conformity	CE	
	1.11/0.4	
	UKCA	
	cUL us	
	WEEE	
Basic standard	IFC 60947-5-2	
Duolo otalitati a	120 000 17 0 2	
Trademark	Global	
	0.0004	
Display (Operation		
Display/Operation		
Function indicator	ves	

Electrical connection

Power indicator

Connection	M8x1-Male, 3-pin
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	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 µA
Ripple max. (% of Ue)	15 %
Switching frequency	700 Hz
Utilization category	DC -13
Voltage drop static max.	2.5 V
Environmental conditions	
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)	880 a
· •	
Interface	

Switching output

NPN normally open (NO)

Inductive Sensors BES M08MI-NSC20B-S49G Order Code: BES002U



Material Housing material Brass, nickel-plated Material sensing surface PA 12 Mechanical data Dimension Ø 8 x 59 mm Installation for flush mounting Mounting length 50.00 mm M8x1 Size Tightening torque 3 Nm

Range/Distance

Assured operating distance Sa	1.6 mm
Hysteresis H max. (% of Sr)	15.0 %
Rated operating distance Sn	2 mm
Real switching distance sr	2 mm
Repeat accuracy max. (% of Sr)	5.0 %
Switching distance marking	
Temperature drift max. (% of Sr)	10 %
Tolerance Sr	±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

