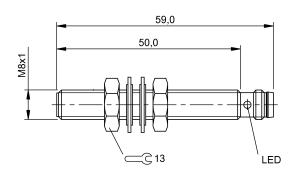
BES M08MI-NSC15B-S49G Order Code: BES002K









Basic features

Approval/Conformity

CE
cULus
EAC
WEEE

Basic standard

IEC 60947-5-2

Trademark

Global

Display/Operation

Function indicator yes
Power indicator no

Electrical connection

Connection M8x1-Male, 3-pin
Polarity reversal protected yes
Protection against device mix-ups
Short-circuit protection yes

Electrical data

Load capacitance max. at Ue $1 \, \mu F$ 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 12...30 VDC Output resistance Ra 33.0 kOhm + D 75 V DC Rated insulation voltage Ui 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 % 1000 Hz Switching frequency **Utilization category** DC -13 Voltage drop static max. 2.5 V

Environmental conditions

Ambient temperature -25...70 °C

Contamination scale 3

EN 60068-2-27, Shock Half-sinus, 30 gn, 11 ms

EN 60068-2-6, Vibration 55 Hz, amplitude 1 mm, 3x30 min

Protection degree IP67

Functional safety

Subject to change without notice: 225293

MTTF (40 °C) 880 a

BES M08MI-NSC15B-S49G **Order Code: BES002K**



Material

Housing material Brass Material sensing surface PA 12 Surface protection nickel plated

Mechanical data

Dimension Ø 8 x 59 mm Installation for flush mounting Size M8x1 Tightening torque 3 Nm

Output/Interface

Switching output	NPN normally open (NO)
Range/Distance	
Assured operating distance Sa	1.2 mm
Hysteresis H max. (% of Sr)	15.0 %
Rated operating distance Sn	1.5 mm
Real switching distance sr	1.5 mm
Repeat accuracy max. (% of Sr)	5.0 %
Temperature drift max. (% of Sr)	10 %
Tolerance Sr	±10 %

Remarks

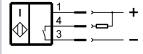
The sensor is functional again after the overload has been eliminated. For more information about MTTF and B10d see MTTF / B10d Certificate

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



ETIM 6.0: EC002714 BES002K_0.28_2020-03-05