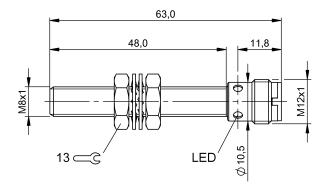
Inductive Sensors BES M08MH1-NSC15B-S04G Order Code: BES0024







Basic features

CE
UKCA
cULus WFFF
IEC 60947-5-2
Inductive sensor
Global
yes
no
M12x1-Male, 4-pin, A-coded
yes

Connection	witzki wiałe, i pin, i
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	7 mA
No-load current lo max., undamped	2 mA
Operating voltage Ub	1230 VDC
Output resistance Ra	33.0 kOhm + D
Rated insulation voltage Ui	250 V AC
Rated operating current le	200 mA
Rated operating voltage Ue DC	24 V
Rated short circuit current	100 A
Ready delay tv max.	25 ms
Residual current Ir max.	10 µA
Ripple max. (% of Ue)	15 %
Switching frequency	1000 Hz
	DC -13
Utilization category	50 10
Utilization category Voltage drop static max.	2.5 V
Voltage drop static max. Environmental conditions Ambient temperature Contamination scale EN 60068-2-27, Shock	2.5 V -2570 °C 3 Half-sinus, 30 g _n , 11 ms
Voltage drop static max. Environmental conditions Ambient temperature Contamination scale EN 60068-2-27, Shock EN 60068-2-6, Vibration	2.5 V -2570 °C 3 Half-sinus, 30 g _n , 11 ms 55 Hz, amplitude 1 mm, 3x30 mir
Voltage drop static max. Environmental conditions Ambient temperature Contamination scale EN 60068-2-27, Shock EN 60068-2-6, Vibration	2.5 V -2570 °C 3 Half-sinus, 30 g _n , 11 ms
Voltage drop static max. Environmental conditions Ambient temperature Contamination scale EN 60068-2-27, Shock EN 60068-2-6, Vibration IP rating	2.5 V -2570 °C 3 Half-sinus, 30 g _n , 11 ms 55 Hz, amplitude 1 mm, 3x30 mir
• •	2.5 V -2570 °C 3 Half-sinus, 30 g _n , 11 ms 55 Hz, amplitude 1 mm, 3x30 mir
Voltage drop static max. Environmental conditions Ambient temperature Contamination scale EN 60068-2-27, Shock EN 60068-2-6, Vibration IP rating Functional safety	2.5 V -2570 °C 3 Half-sinus, 30 g _n , 11 ms 55 Hz, amplitude 1 mm, 3x30 mir IP67
Voltage drop static max. Environmental conditions Ambient temperature Contamination scale EN 60068-2-27, Shock EN 60068-2-6, Vibration IP rating Functional safety MTTF (40 °C)	2.5 V -2570 °C 3 Half-sinus, 30 g _n , 11 ms 55 Hz, amplitude 1 mm, 3x30 mir IP67

Internet

eCl@ss 9.1: 27-27-01-01 ETIM 6.0: EC002714 BES0024_5.14_2025-05-14

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Range/Distance

Housing material	Brass, nickel-plated
Material sensing surface	PA 12
Mechanical data	
Dimension	Ø 8 x 65 mm
Installation	for flush mounting
Mounting length	48.00 mm
Size	M8x1

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

Material

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)

