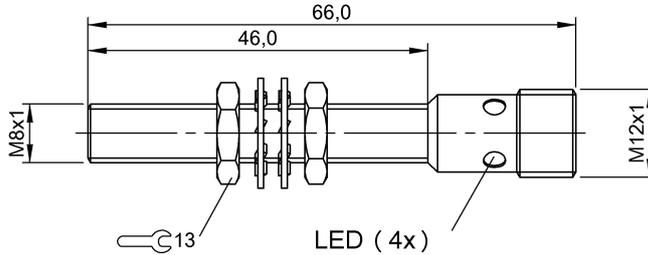


BES M08MH1-PSC30B-S04G BES02W9



IND. CONT. EQ.
11RZ
for use in the secondary of
a class 2 source of supply



Display/Operation

Function indicator	yes
Power indicator	no

Electrical connection

Connection	M12x1-Connector, 4-pole, A-coded
Polarity reversal protected	yes
Short-circuit protection	yes

Electrical data

Hysteresis H max. (% of Sr)	15.0 %
Load capacitance max. at Ue	1 µF
MTTF (40 °C)	945 a
No-load current to max., undamped	10 mA
Operating voltage U _b	10...30 VDC
Output resistance R _a	47.0 kOhm
Pollution degree	3
Protected against miswiring	yes
Rated insulation voltage U _i	75 V DC
Rated operating current I _e DC	200 mA
Rated operating voltage U _e DC	24 V
Rated short circuit current	100 A
Ready delay t _v max.	50 ms
Repeat accuracy max. (% of Sr)	5.0 %
Residual current I _r max.	100 µA
Switching frequency	1000 Hz
Utilization category	DC -13
Voltage drop static max.	2 V

Environmental conditions

Ambient temperature	-25...70 °C
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Protection class	II
Protection type IEC 60529	IP67

Functional safety

Diagnostic coverage	0 %
Functional safety	no
Mission Time	0 a

General data

Approval/Conformity	CE cULus EAC
Basic standard	IEC 60947-5-2

Material

Housing material	Brass
Material sensing surface	PBT
Surface protection	chrome plated

Mechanical data

Dimension	Ø 8 x 66 mm
Installation	quasi-flush
Size	M8x1
Tightening torque	4 Nm

Output/Interface

Switching output	PNP Normally open (NO)
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Range/Distance

Assured operating distance S _a	2.4 mm
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BES M08MH1-PSC30B-S04G BES02W9

Range	3 mm
Rated operating distance S_n	3 mm
Ripple max. (% of U_e)	20 %
Switching distance marking	■■■
Temperature drift max. (% of S_r)	10 %

Quasi-shielded: See installation instructions for inductive sensors with extended range 825356.
With connector, e.g. BCC M425-.. total length is = switch length +19 mm.

For further information on MTTF/B10d, please refer to the MTTF / B10d Certificate.

Specification of the MTTF value and the B10d value do not represent any binding quality and/or life expectancy guarantees.

Remarks

Operating frequency $f_{oscillator}$: 320 kHz. In the range of $\pm 15\%$ of the working frequency EMC incompatibilities may occur.
The sensor is functional again after the overload has been eliminated.

Connector view



Wiring Diagram

