













Basic features

Short-circuit protection

CE UKCA cULus
WEEE
IEC 60947-5-2
Inductive sensor
yes
no
M12x1-Male, 3-pin, A-coded
yes
yes

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	1030 VDC
Output resistance Ra	33.0 kOhm
Protection class	II
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 μΑ
Ripple max. (% of Ue)	15 %
Switching frequency	4000 Hz
Utilization category	DC -13
Voltage drop static max.	2.5 V

Environmental conditions

rift max. 70 °C
30 min

595 a

MTTF (40 °C)

BES M08EG1-PSC40F-S04G Order Code: BES01P9

BALLUFF

Interface

Switching output PNP normally open (NO)

Material

Housing materialStainless steelMaterial sensing surfacePBT

Mechanical data

 Dimension
 Ø 8 x 63 mm

 Installation
 non-flush

 Mounting length
 43 mm

 Size
 M8x1

 Tightening torque
 8 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

10 % ±10 %

3.2 mm

15.0 %

4 mm

4 mm

5.0 %

Remarks

The sensor is functional again after the overload has been eliminated.

In rare cases, the function of the sensor may be impaired during contact with water

it is fully functional again after drying

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)

