

1) Metal-free area



Display/Operation

Function indicator	yes
Power indicator	no

Electrical connection

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 μ F
Min. operating current Im	0 mA
No-load current Io max., damped	10 mA
No-load current Io max., undamped	10 mA
Operating voltage Ub	10...30 VDC
Output resistance Ra	47.0 kOhm
Rated insulation voltage Ui	75 V DC
Rated operating current Ie	200 mA
Rated operating voltage Ue DC	24 V
Rated short circuit current	100 A
Ready delay tv max.	50 ms
Residual current Ir max.	100 μ A
Ripple max. (% of Ue)	20 %
Switching frequency	1000 Hz
Utilization category	DC -13
Voltage drop static max.	2 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

General data

Approval/Conformity	CE WEEE
Basic standard	IEC 60947-5-2

Material

Housing material	Brass
Material sensing surface	PBT
Surface protection	Chrome-plated

Mechanical data

Dimension	59 x 8 x 8 mm
Installation	quasi-flush
Size	8x8

Output/Interface

Switching output	PNP normally open (NO)
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Inductive Sensors
BES Q08MG-PSC30B-S49G
Order Code: BES02YP

BALLUFF

Range/Distance

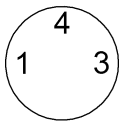
Assured operating distance Sa	2.4 mm
Hysteresis H max. (% of Sr)	10.0 %
Rated operating distance Sn	3 mm

Real switching distance sr	3 mm
Repeat accuracy max. (% of Sr)	5.0 %
Switching distance marking	■■■
Temperature drift max. (% of Sr)	10 %
Tolerance Sr	±10 %

Remarks

The sensor is functional again after the overload has been eliminated.
Quasi-flushed: See installation instructions for inductive sensors with extended range 825356.
With connector, e.g. BKS-S 49-... total length = switch length +12 mm.

Connector Drawings



Wiring Diagrams

