

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



## Basic features

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

## 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 $U_e$	1 $\mu$ F
Min. operating current $I_m$	0 mA
No-load current $I_o$ max., damped	10 mA
No-load current $I_o$ max., undamped	12 mA
Operating voltage $U_b$	10...30 VDC
Output resistance $R_a$	47.0 kOhm
Rated insulation voltage $U_i$	75 V DC
Rated operating current $I_e$	200 mA
Rated operating voltage $U_e$ DC	24 V
Rated short circuit current	100 A
Ready delay $t_v$ max.	50 ms
Residual current $I_r$ max.	100 $\mu$ A
Ripple max. (% of $U_e$ )	20 %
Switching frequency	500 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

## Functional safety

MTTF (40 °C)	455 a
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Inductive Sensors  
**BES M08MG1-POC60F-S49G**  
**Order Code: BES02W2**



**Material**

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

**Mechanical data**

Dimension	Ø 8 x 60 mm
Installation	non-flush
Size	M8x1
Tightening torque	4 Nm

**Output/Interface**

Switching output	PNP normally closed (NC)
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**Range/Distance**

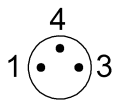
Assured operating distance Sa	4.8 mm
Hysteresis H max. (% of Sr)	15.0 %
Rated operating distance Sn	6 mm
Real switching distance sr	6 mm
Repeat accuracy max. (% of Sr)	5.0 %
Switching distance marking	■■■
Temperature drift max. (% of Sr)	10 %
Tolerance Sr	±10 %

**Remarks**

With connector, e.g. BKS-S 49-... total length = switch length +12 mm.  
 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**

