













Basic features

Short-circuit protection

Daoio reatareo	
Approval/Conformity	cULus CE WFFF
Basic standard	IFC 60947-5-2
basic stanuaru	IEC 00947-5-2
Trademark	Global
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

yes

Electrical data

Load capacitance max. at Ue	1 μF
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)	10 %
Switching frequency	5000 Hz
Utilization category	DC -13
Voltage drop static max.	2.5 V

Environmental conditions

Ambient temperature	-2570 °C
Contamination scale	3
EN 60068-2-27, Shock	Half-sinus, 30 g _n , 11 ms
EN 60068-2-6, Vibration	55 Hz, amplitude 1 mm, 3x30 min
IP rating	IP68
Functional safety	
MTTF (40 °C)	595 a
Interface	

1/2

PNP normally open (NO)

Switching output

BES M08MI-PSC20B-S49G Order Code: BES003P



1.6 mm

15.0 %

 $2\,\text{mm}$

2 mm

Material

Housing material Brass, Nickel-free coated

Material sensing surface PB

Mechanical data

Size M8x1 Tightening torque 3 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

5.0 %

10 %

±10 %

Remarks

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

