



1) Sensing surface



Basic features

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

Display/Operation

Function indicator	yes
Power indicator	no

Electrical connection

Cable diameter D	2.40 mm
Cable length L	0.33 m
Connection	M8x1-Male, 3-pin
Connection type	Cable with connector, 0.33 m, PUR
Polarity reversal protected	yes
Protection against device mix-ups	yes
Short-circuit protection	yes

Electrical data

Load capacitance max. at Ue	1 µF
No-load current I_o max., damped	6 mA
No-load current I_o max., undamped	3 mA
Operating voltage U_b	10...30 VDC
Output resistance R_a	Open emitter
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.	21 ms
Residual current I_r max.	50 µA
Ripple max. (% of U_e)	10 %
Switching frequency	2500 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 g _n , 11 ms
EN 60068-2-6, Vibration	55 Hz, amplitude 1 mm, 3x30 min
IP rating	IP67

Interface

Switching output	PNP normally open (NO)
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Inductive Sensors
BES Q08MFC-PSC20B-EP00,33-GS49
Order Code: BES04Z8



Material

Housing material	Brass, Nickel-free coated
Material jacket	PUR
Material sensing surface	PBT

Range/Distance

Assured operating distance Sa	1.6 mm
Hysteresis H max. (% of Sr)	15.0 %
Rated operating distance Sn	2 mm
Real switching distance sr	2 mm
Repeat accuracy max. (% of Sr)	5.0 %
Switching distance marking	■ ■
Temperature drift max. (% of Sr)	10 %
Tolerance Sr	±10 %

Mechanical data

Dimension	16 x 8 x 8 mm
Installation	for flush mounting
Size	8x8

Remarks

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

Connector Drawings



Wiring Diagrams

