



### Basic features

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

### Display/Operation

Function indicator	no
Power indicator	no

### Electrical connection

Cable diameter D	3.0 mm
Cable length L	5 m
Conductor cross-section	0.22 mm <sup>2</sup>
Connection type	Cable, 5.0 m, PTFE
Number of conductors	3
Polarity reversal protected	yes
Protection against device mix-ups	yes
Short-circuit protection	yes

### Electrical data

Load capacitance max. at U <sub>e</sub>	9 µF
Min. operating current I <sub>m</sub>	0 mA
No-load current I <sub>o</sub> max., damped	5 mA
No-load current I <sub>o</sub> max., undamped	5 mA
Operating voltage U <sub>b</sub>	10...30 VDC
Rated operating current I <sub>e</sub>	50 mA
Rated operating voltage U <sub>e</sub> DC	24 V
Ready delay t <sub>v</sub> max.	60 ms
Residual current I <sub>r</sub> max.	15 µA
Ripple max. (% of U <sub>e</sub> )	10 %
Switching frequency	600 Hz
Utilization category	DC -13
Voltage drop static max.	1.3 V

### Environmental conditions

Ambient temperature	0...140 °C
EN 60068-2-27, Shock	Half-sinus, 30 g <sub>n</sub> , 11 ms
EN 60068-2-6, Vibration	55 Hz, amplitude 1 mm, 3x30 min
IP rating	IP50

### Functional safety

MTTF (40 °C)	1342 a
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### Interface

Switching output	PNP normally open (NO)
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Inductive Sensors  
**BES M08EM-PSD20B-ET05-T**  
Order Code: BES05FN

# BALLUFF

## Material

Housing material	Stainless steel
Material jacket	PTFE
Material sensing surface	LCP

## Mechanical data

Dimension	Ø 8 x 60 mm
Installation	for flush mounting
Size	M8x1
Tightening torque	8 Nm

## 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)	2.26 %
Switching distance marking	■ ■
Tolerance Sr	±15 %

## Wiring Diagrams

