



Basic features

Approval/Conformity	CE EAC WEEE
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 ²
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 _e	9 µF
Min. operating current I _m	0 mA
No-load current I _o max., damped	5 mA
No-load current I _o max., undamped	5 mA
Operating voltage U _b	10...30 VDC
Rated operating current I _e	50 mA
Rated operating voltage U _e DC	24 V
Ready delay t _v max.	60 ms
Residual current I _r max.	15 µA
Ripple max. (% of U _e)	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 gn, 11 ms
EN 60068-2-6, Vibration	55 Hz, amplitude 1 mm, 3x30 min
Protection degree	IP50

Functional safety

MTTF (40 °C)	1342 a
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Material

Housing material	Stainless steel
Material jacket	PTFE
Material sensing surface	LCP

Inductive Sensors
BES M08EM-PSD20B-ET05-T
Order Code: BES05FN

BALLUFF

Mechanical data

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

Output/Interface

Switching output	PNP normally open (NO)
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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

