

IND. CONT. EQ.
 81U2
 Class 2 Type 1



Display/Operation

Function indicator	yes
Power indicator	no

Electrical connection

Connection	M12x1-Male, 3-pin, A-coded
Polarity reversal protected	yes
Protection against device mix-ups	yes
Short-circuit protection	yes

Electrical data

Load capacitance max. at Ue	1 μ F
Min. operating current I _m	0 mA
No-load current I _o max., damped	11 mA
No-load current I _o max., undamped	7 mA
Operating voltage U _b	10...30 VDC
Output resistance R _a	100.0 kOhm
Protection class	II
Rated insulation voltage U _i	250 V AC
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.	40 ms
Residual current I _r max.	100 μ A
Ripple max. (% of U _e)	10 %
Switching frequency	400 Hz
Utilization category	DC -13
Voltage drop static max.	1.2 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
IP rating	IP68 per BWN Pr 20

Functional safety

MTTF (40 °C)	621 a
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General data

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

Material

Housing material	Brass
Material sensing surface	PBT
Surface protection	Nickel-free coated

Mechanical data

Dimension	Ø 18 x 66 mm
Size	M18x1
Tightening torque	25 Nm

Output/Interface

Switching output	PNP normally open (NO)
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Inductive Sensors
BES M18MG-PSC20F-S04G
Order Code: BES05EY



Range/Distance

Assured operating distance Sa	16 mm
Hysteresis H max. (% of Sr)	15 %
Rated operating distance Sn	20 mm

Real switching distance sr	20 mm
Repeat accuracy max. (% of Sr)	5.0 %
Switching distance marking	■■■
Temperature drift max. (% of Sr)	10 %
Tolerance Sr	±10 %

Remarks

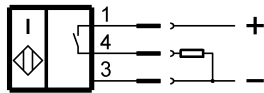
The sensor is functional again after the overload has been eliminated.
 For further information about the MTTF and B10d see MTTF / B10d certificate

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



Help Views

