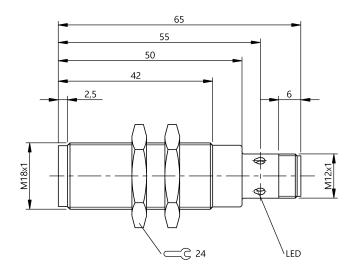
BES M18EG1-PSC50N-S04G-S Order Code: BES02Z8

BALLUFF







Display/Operation

Function indicator yes
Power indicator yes

Electrical connection

 Connection
 M12x1-Male, 4-pin, A-coded

 Polarity reversal protected
 yes

 Protection against device mix-ups
 no

 Short-circuit protection
 yes

Electrical data

0 mA Min. operating current Im No-load current lo max., damped 10 mA No-load current lo max., undamped 10 mA Operating voltage Ub 10...30 VDC 75 V DC Rated insulation voltage Ui Rated operating current le 200 mA Rated operating voltage Ue DC 24 V Rated short circuit current 100 A Ready delay tv max. 20 ms Residual current Ir max. 10 μΑ Ripple max. (% of Ue) 15 % Switching frequency 30 Hz **Utilization category** DC -13 Voltage drop static max. 2 V

Environmental conditions

Ambient temperature -40...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 IP67

Functional safety

MTTF (40 °C) 990 a

General data

Additional features

Approval/Conformity

CE

EAC

cULus

WEEE

Basic standard

IEC 60947-5-2

Target material

Selective non-ferrous

Material

Housing material Stainless steel

Material sensing surface Stainless steel

Mechanical data

DimensionØ 18 x 65 mmInstallationfor flush mountingSizeM18x1Tightening torque30 Nm

BES M18EG1-PSC50N-S04G-S **Order Code: BES02Z8**



Output/Interface

Switching output

PNP normally open (NO)

Range/Distance

Assured operating distance Sa 4.1 mm Hysteresis H max. (% of Sr) 10.0 % Rated operating distance Sn 5 mm Real switching distance sr 5 mm Repeat accuracy max. (% of Sr) 5.0 % Temperature drift max. (% of Sr) 10 % **Tolerance Sr** ±10 %

Remarks

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

EMC: Achieves severity level only with shielded connector BKSS19-14-... Connect shield to both ends.

Non-Ferrous - detection of non-ferrous metals (such as aluminum, copper, brass) and austenitic steel ferromagnetic steel is ignored.

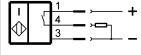
For further information about the MTTF and B10d see MTTF / B10d certificate

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



2/2