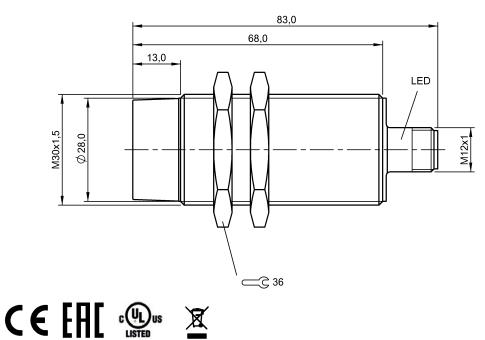
# **Inductive Sensors** BES M30MM-NSC30F-S04K **Order Code: BES00AP**





#### **Basic features**

Approval/Conformity	CE cULus EAC WEEE
Basic standard	IEC 60947-5-2
Trademark	Global
Display/Operation	
Function indicator	yes
Power indicator	no

# **Electrical connection**

Connection	M12x1-Male, 4-pin, A-coded
Polarity reversal protected	yes
Protection against device mix-ups	yes
Short-circuit protection	yes

# **Electrical data**

Load capacitance max. at Ue	0.5 μF
Min. operating current Im	0 mA
No-load current lo max., damped	14 mA
No-load current lo max., undamped	3 mA
Operating voltage Ub	1030 VDC
Output resistance Ra	33.0 kOhm + D
Rated insulation voltage Ui	250 V AC
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 µA
Ripple max. (% of Ue)	15 %
Switching frequency	300 Hz
Utilization category	DC -13
Voltage drop static max.	2.5 V

# **Environmental conditions**

Ambient temperature	-2570 °C
Contamination scale	3
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	IP67
Functional safety	

# MTTF (40 °C)

620 a

# Interface

Switching output

NPN normally open (NO)

eCl@ss 9.1: ETIM 6.0: BES00AP\_0.6\_2022-06-29

# Inductive Sensors BES M30MM-NSC30F-S04K Order Code: BES00AP



#### Material

matorial	
Housing material	Brass, Nickel-free coated
Material sensing surface	PBT
Mechanical data	
Dimension	Ø 30 x 83 mm
Installation	non-flush
Size	M30x1.5
Tightening torque	70 Nm

#### **Range/Distance**

Assured operating distance Sa	24 mm
Hysteresis H max. (% of Sr)	20.0 %
Rated operating distance Sn	30 mm
Real switching distance sr	30 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.

Not for flush mounting: See installation instructions for inductive sensors with extended range 939229.

For more information about 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**

