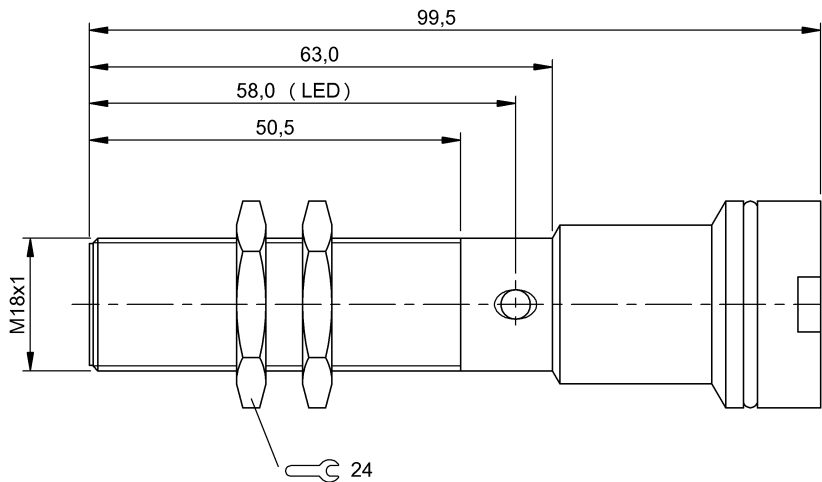




Basic features

Approval/Conformity	CE cULus EAC WEEE
Basic standard	IEC 60947-5-2
Principle of operation	Inductive sensor

Display/Operation

Function indicator	yes
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Electrical connection

Connection	S01-Male
Polarity reversal protected	yes
Short-circuit protection	no

Electrical data

Min. operating current I_m	5 mA
Operating voltage U_b	35...250 VAC
Protection class	I
Rated insulation voltage U_i	250 V AC
Rated operating current I_e	250 mA
Rated operating voltage U_e AC	110 V
Rated short circuit current	100 A
Ready delay t_v max.	100 ms
Residual current I_r max.	1700 μ A
Switching frequency	10 Hz
Utilization category	AC-140
Voltage drop static max.	8.5 V

Environmental conditions

Ambient temperature	-25...70 °C
Contamination scale	3
EN 60068-2-27, Shock	Half-sinus, 30 g_n , 11 ms
EN 60068-2-6, Vibration	55 Hz, amplitude 1 mm, 3x30 min
IP rating	IP65, Sensor IP67

Interface

Switching output	normally open (NO)
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Material

Housing material	Brass, nickel-plated
Material sensing surface	PA 12

Mechanical data

Dimension	$\varnothing 18 \times 99,5$ mm
Installation	for flush mounting
Mounting length	50.50 mm
Size	M18x1
Tightening torque	35 Nm

Range/Distance

Assured operating distance S_a	4 mm
Hysteresis H max. (% of S_r)	15.0 %
Rated operating distance S_n	5 mm
Real switching distance s_r	5 mm
Repeat accuracy max. (% of S_r)	5.0 %
Temperature drift max. (% of S_r)	10 %
Tolerance S_r	± 10 %

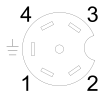
Remarks

With connector, e.g. BKS-S 1-... total length = switch length +35mm.

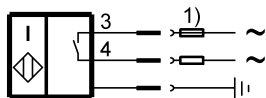
Recommendation: After a short circuit check the device for proper function.

A filter is required for the EMC protection circuit. Conducted interference emission. Epcos, Model: B84112B0000B030.

Connector Drawings



Wiring Diagrams (Schematic)



1) For SCP see electrical data