

Inductive sensor

NBB15-30GM50-E3-V1-3G-3D

- Increased operating distance
- 15 mm flush
- ATEX/IECEx Zone 2/22
- Polarity reversal protected





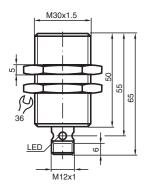








Dimensions



Technical Data

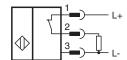
General specifications		
Switching function		Normally closed (NC)
Output type		PNP
Rated operating distance	s_n	15 mm
Installation		flush
Output polarity		DC
Assured operating distance	Sa	0 12.15 mm
Reduction factor r _{AI}		0.3
Reduction factor r _{Cu}		0.3
Reduction factor r ₃₀₄		0.75
Output type		3-wire
Nominal ratings		
Operating voltage	U_B	10 30 V DC
Switching frequency	f	0 200 Hz
Reverse polarity protection		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	U_{d}	≤3 V

Technical Data Operating current 0 ... 200 mA Off-state current I_r 0 ... 0.5 mA typ. 0.1 μ A at 25 °C No-load supply current ≤ 15 mA Switching state indicator Multihole-LED, yellow Functional safety related parameters 1052 a MTTF_d Mission Time (T_M) 20 a Diagnostic Coverage (DC) 0 % Compliance with standards and directives Standard conformity Standards EN IEC 60947-5-2 Approvals and certificates IECEx approval Equipment protection level Gc (ec) IECEx TUR 21.0017X Equipment protection level Dc (tc) **IECEx TUR 21.0018X** ATEX approval TÜV 20 ATEX 8523 X Equipment protection level Gc (ec) TÜV 20 ATEX 8524 X Equipment protection level Dc (tc) **UL** approval cULus Listed, General Purpose CCC approval 2024322315005947 Hazardous Location 2024322315005860 Marine approval DNVGL TAA0000160 **Ambient conditions** Ambient temperature -25 ... 70 °C (-13 ... 158 °F) Mechanical specifications Connection type Connector plug Housing material brass, nickel-plated PBT Sensing face IP67 Degree of protection Connector Threading M12 x 1 Number of pins Mass 145 g **Dimensions** Length 65 mm Diameter 30 mm **General information**

2 self locking nuts in scope of delivery

see instruction manuals

Connection Assignment



Scope of delivery

Use in the hazardous area

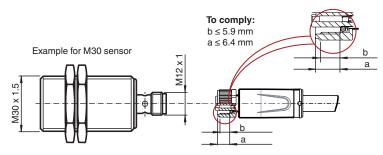


Wire colors in accordance with EN 60947-5-2

1	BN	(brown)
2	WH	(white)
3	BU	(blue)
4	BK	(black)

Installation

Requirement for cable socket to achieve IP degree of protection



b = max. distance from start of thread to seal a = max. distance from start of union nut to seal

5 PEPPERL+FUCHS