



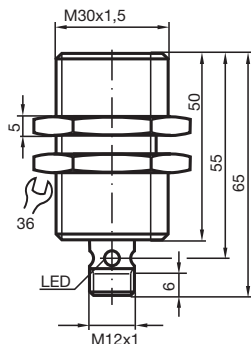
Inductive sensor

NBB15-30GM50-E2-V1-3G-3D

- Basic series
- Increased operating distance
- ATEX-approval for zone 2 and zone 22



Dimensions



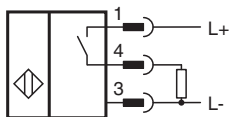
Technical Data

General specifications		
Switching function		Normally open (NO)
Output type		PNP
Rated operating distance	s _n	15 mm
Installation		flush
Output polarity		DC
Assured operating distance	s _a	0 ... 12.15 mm
Reduction factor r _{Al}		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

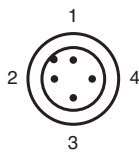
Technical Data

Switching frequency	f	0 ... 200 Hz
Reverse polarity protection		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	U _d	≤ 3 V
Operating current	I _L	0 ... 200 mA
Off-state current	I _r	0 ... 0.5 mA typ. 0.1 µA at 25 °C
No-load supply current	I ₀	≤ 15 mA
Switching state indicator		Multihole-LED, yellow
Compliance with standards and directives		
Standard conformity		
Standards		EN 60947-5-2:2007 EN 60947-5-2/A1:2012 IEC 60947-5-2:2007 IEC 60947-5-2 AMD 1:2012
Approvals and certificates		
UL approval		cULus Listed, General Purpose
CSA approval		cCSAus Listed, General Purpose
CCC approval		CCC approval / marking not required for products rated ≤36 V
Ambient conditions		
Ambient temperature		-25 ... 70 °C (-13 ... 158 °F)
Mechanical specifications		
Connection type		Connector plug M12 x 1 , 4-pin
Housing material		brass, nickel-plated
Sensing face		PBT
Degree of protection		IP67
Equipment protection level Dc (tc)		
Special conditions		
Maximum permissible ambient temperature T _{Umax}		dependant of the load current I _L and the max. operating voltage U _{Bmax} Information can be taken from the following list.
General information		
Use in the hazardous area		see instruction manuals

Connection



Connection Assignment



Wire colors in accordance with EN 60947-5-2

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

Accessories

	BF 30	Mounting flange, 30 mm
	EXG-30	Quick mounting bracket with dead stop

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