

# Inductive sensor NBB10-30GM50-E2-C3-V1

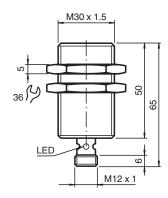
- 10 mm flush
- Weld Immune
- Ceramic coated sensing face







### **Dimensions**



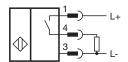
## Technical Data

General specifications		
Switching function		Normally open (NO)
Output type		PNP
Rated operating distance	Sn	10 mm
Installation		flush
Output polarity		DC
Assured operating distance	Sa	0 8.1 mm
Reduction factor r <sub>Al</sub>		0.3
Reduction factor r <sub>Cu</sub>		0.2
Reduction factor r <sub>304</sub>		0.6
Output type		3-wire
Nominal ratings		
Operating voltage	$U_B$	10 30 V DC
Switching frequency	f	0 10 Hz
Hysteresis	Н	typ. 5 %
Reverse polarity protection		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	$U_{d}$	≤3 V
Operating current	IL	0 200 mA
Off-state current	l <sub>r</sub>	$0 \dots 0.5$ mA typ. 0.1 $\mu A$ at 25 $^{\circ} C$
No-load supply current	I <sub>0</sub>	≤ 15 mA

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Constant magnetic field B Alternating magnetic field B Operating voltage indicator Switching state indicator Inctional safety related parameters	150 mT 150 mT LED, green LED, yellow 1835 a 20 a
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MTTF <sub>d</sub>	20 a
Mission Time (T <sub>M</sub> )	
Diagnostic Coverage (DC)	0 %
ompliance with standards and directives	
Standard conformity	
Standards	EN IEC 60947-5-2
pprovals and certificates	
JL approval	cULus Listed Load Type: General Purpose Circuitry: Class 2 Power Source Enclosure Type Rating: Type 1 Supply/Switching Voltage: 30 V DC Output Switching Current: 200 mA
CCC approval	CCC approval / marking not required for products rated ≤36 V
mbient conditions	
Ambient temperature	-25 70 °C (-13 158 °F)
echanical specifications	
Connection type	Connector plug
Housing material	Brass, PTFE coated
Sensing face	Ceramic coated
Degree of protection	IP67
Connector	
Threading	M12 x 1
Number of pins	4
Dimensions	
Length	50 mm
Diameter	30 mm

### Connection



### **Connection Assignment**



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### **Connection Assignment**

Wire colors in accordance with EN 60947-5-2

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