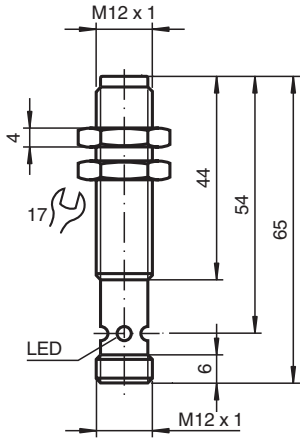
Inductive sensor

NMB5-12GM65-E2-C-V1



- 5 mm flush
- Stainless steel sensing face
- Increased operating distance
- Weld Immune

Dimensions



Technical Data

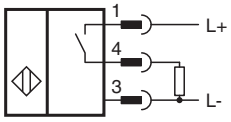
General specifications		
Switching function		Normally open (NO)
Output type		PNP
Rated operating distance	s_n	5 mm
Installation		flush (Requirements: see drawing below)
Output polarity		DC
Assured operating distance	s_a	0 ... 4.05 mm
Actuating element		Ferrous and nonferrous targets
Reduction factor r_{Al}		0.3
Reduction factor r_{Cu}		0.2
Reduction factor r_{304}		0.85
Reduction factor r_{St37}		1
Output type		3-wire
Nominal ratings		
Operating voltage	U_B	10 ... 30 V DC
Switching frequency	f	0 ... 5 Hz
Hysteresis	H	3 ... 15 typ. 5 %
Reverse polarity protection		reverse polarity protected

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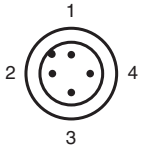
Technical Data

Short-circuit protection		pulsing
Voltage drop	U_d	≤ 2 V
Operating current	I_L	≤ 200 mA For a temperature range above 50°C, the permissible operating current IL ≤ 150 mA
Current consumption		≤ 10 mA
Off-state current	I_r	≤ 10 µA
No-load supply current	I_0	≤ 15 mA
Operating voltage indicator		LED, green
Switching state indicator		Multihole-LED, yellow
Mag. Field strength, AC fields		250 mT
Mag. Field strength, DC fields		250 mT
Compliance with standards and directives		
Standard conformity		
Standards		EN IEC 60947-5-2
Approvals and certificates		
UL 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
Ambient conditions		
Ambient temperature		-25 ... 70 °C (-13 ... 158 °F)
Mechanical specifications		
Connection type		Connector plug
Housing material		Xylan coated - Stainless steel 1.4305 / AISI 303
Sensing face		Xylan coated - Stainless steel 1.4305 / AISI 303
Degree of protection		IP67 / IP68 / IP69K - cordset dependent according to cable specification
Connector		
Threading		M12 x 1
Number of pins		4
Dimensions		
Length		65 mm
Diameter		12 mm

Connection



Connection Assignment



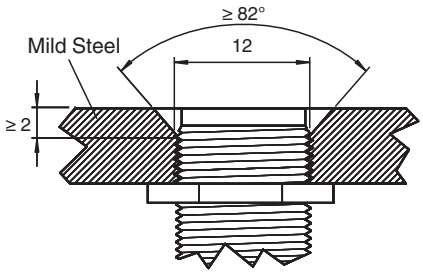
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Connection Assignment

Wire colors in accordance with EN 60947-5-2

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

Mounting



Sensor face is flush with mounting surface.

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