

Inductive sensor

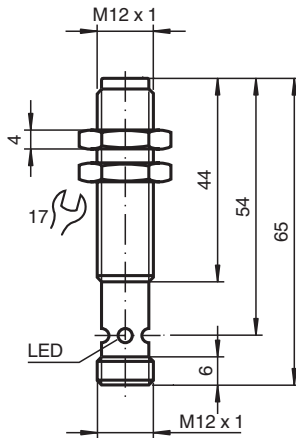
NMB5-12GM65-E2-C-V1



- 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_{S137}		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	$\leq 2 \text{ V}$
Operating current	I_L	$\leq 200 \text{ mA}$ For a temperature range above 50°C, the permissible operating current $I_L \leq 150 \text{ mA}$
Current consumption		$\leq 10 \text{ mA}$
Off-state current	I_r	$\leq 10 \mu\text{A}$
No-load supply current	I_0	$\leq 15 \text{ mA}$
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
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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 $\leq 36 \text{ V}$

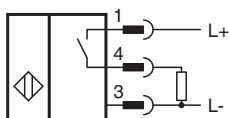
Ambient conditions

Ambient temperature	-25 ... 70 °C (-13 ... 158 °F)
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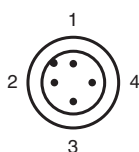
Mechanical specifications

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

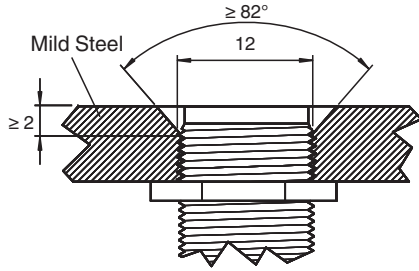


Connection Assignment

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.