

# Inductive sensor

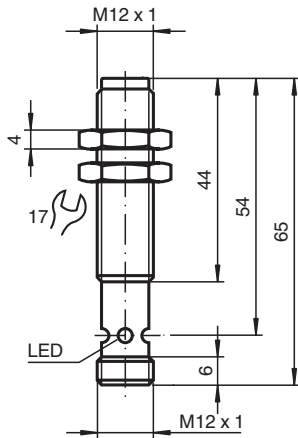
## NMB5-12GM65-E2-C4-V1



- 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	$f$	1 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 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 $\leq 36 \text{ V}$

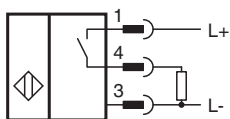
### Ambient conditions

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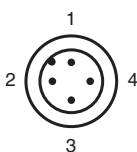
### Mechanical specifications

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
Connector	
Threading	M12 x 1
Number of pins	4
Dimensions	
Length	65 mm
Diameter	12 mm

## Connection



## Connection Assignment

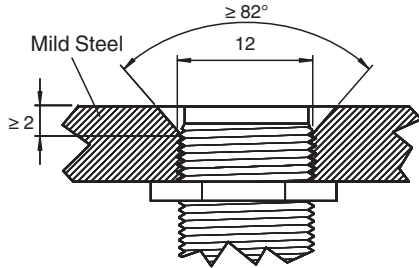


## Connection Assignment

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.