

# Inductive sensor

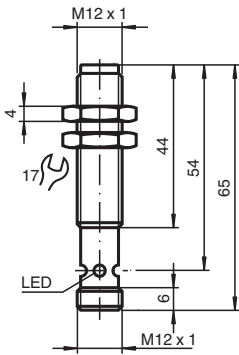
## NMB5-12GM65-E3-V1



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



### Dimensions



### Technical Data

#### General specifications

Switching function		Normally closed (NC)
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

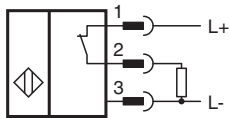
Operating voltage	$U_B$	10 ... 30 V DC
Switching frequency	$f$	0 ... 360 Hz
Hysteresis	$H$	3 ... 15 typ. 5 %
Reverse polarity protection		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	$U_d$	$\leq 2$ V DC

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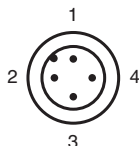
## Technical Data

Operating current	$I_L$	$\leq 200 \text{ mA}$ For a temperature range above 50°C, the permissible operating current $I_L \leq 150 \text{ mA}$
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		LED, yellow
<b>Compliance with standards and directives</b>		
Standard conformity		
Standards		EN IEC 60947-5-2
<b>Approvals and certificates</b>		
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 $\leq 36 \text{ V}$
<b>Ambient conditions</b>		
Ambient temperature		-25 ... 70 °C (-13 ... 158 °F)
<b>Mechanical specifications</b>		
Connection type		Connector plug
Housing material		Stainless steel 1.4305 / AISI 303
Sensing face		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

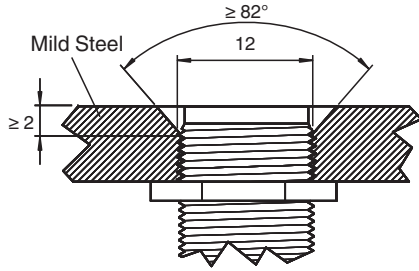


## Connection Assignment

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.