

# Inductive sensor

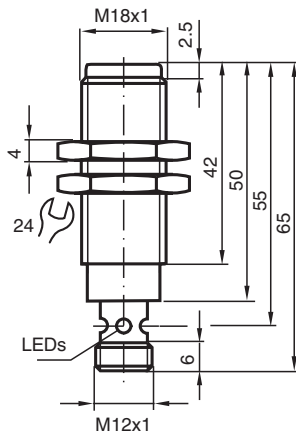
## NMB5-18GM65-E2-FE-V1



- Stainless steel sensing face
- Sensing range 5 mm
- 3-wire DC
- Ferrous targets



### Dimensions



### Technical Data

#### General specifications

Switching function		Normally open (NO)
Output type		PNP
Rated operating distance	$s_n$	5 mm
Installation		flush
Output polarity		DC
Assured operating distance	$s_a$	0 ... 4.05 mm
Actuating element		Ferrous targets
Reduction factor $r_{Al}$		0
Reduction factor $r_{Cu}$		0
Reduction factor $r_{304}$		0.8
Reduction factor $r_{St37}$		1
Output type		3-wire

#### Nominal ratings

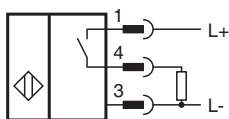
Operating voltage	$U_B$	10 ... 30 V DC
Switching frequency	$f$	15 Hz
Hysteresis	$H$	3 ... 15 typ. 5 %
Reverse polarity protection		yes

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## Technical Data

Short-circuit protection		yes
Voltage drop	$U_d$	$\leq 2 \text{ V}$
Operating current	$I_L$	$\leq 200 \text{ mA}$
Current consumption		$< 14 \text{ mA}$
Off-state current	$I_r$	$\leq 10 \mu\text{A}$
<b>Functional safety related parameters</b>		
MTTF <sub>d</sub>		990 a
Mission Time (T <sub>M</sub> )		20 a
Diagnostic Coverage (DC)		0 %
<b>Indicators/operating means</b>		
Operation indicator		4-way dual LED Green: power Yellow: output
<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		-40 ... 70 °C (-40 ... 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
<b>Dimensions</b>		
Length		50 mm
Diameter		18 mm

## Connection



## Connection Assignment



Wire colors in accordance with EN 60947-5-2

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