

Inductive sensor

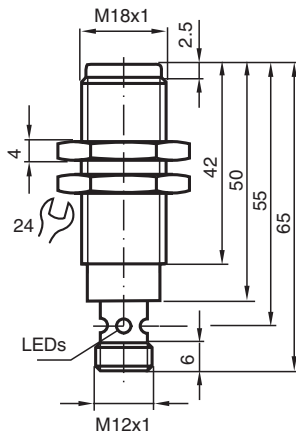
NMB5-18GM65-E2-NFE-V1



- Stainless steel sensing face
- Sensing range 5 mm
- 3-wire DC
- Nonferrous 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		Nonferrous targets
Reduction factor r_{Al}		1
Reduction factor r_{Cu}		1.1
Reduction factor r_{304}		0
Reduction factor r_{316Ti}		0
Reduction factor r_{S37}		0
Reduction factor r_{Brass}		0.9
Output type		3-wire

Nominal ratings

Operating voltage	U_B	10 ... 30 V DC
Switching frequency	f	30 Hz

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Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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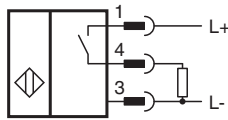
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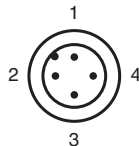
Technical Data

Hysteresis	H	3 ... 15 typ. 5 %
Reverse polarity protection		yes
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	$\leq 10 \mu\text{A}$
Functional safety related parameters		
MTTF _d		964 a
Mission Time (T _M)		20 a
Diagnostic Coverage (DC)		0 %
Indicators/operating means		
Operation indicator		4-way dual LED Green: power Yellow: output
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 $\leq 36 \text{ V}$
Ambient conditions		
Ambient temperature		-40 ... 70 °C (-40 ... 158 °F)
Mechanical specifications		
Connection type		V1 connector (M12 x 1), 4-pin
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
Dimensions		
Length		65 mm
Diameter		18 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)