



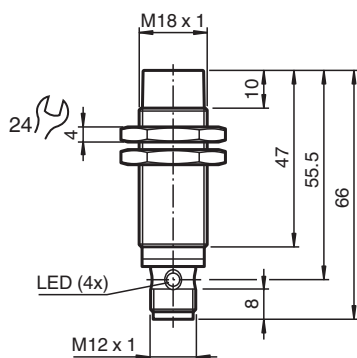
Inductive sensor

NXN12-18GM50-E2-V1

- 12 mm non-flush
- Flexible use with versatile mounting opportunities



Dimensions



Technical Data

General specifications

Switching function		Normally open (NO)
Output type		PNP
Rated operating distance	s_n	12 mm
Installation		non-flush
Output polarity		DC
Assured operating distance	s_a	0 ... 9.72 mm
Actuating element		mild steel, e. g. 1.0037, SR235JR (formerly St37-2) 36 mm x 36 mm x 1 mm
Reduction factor r_{Al}		0.49
Reduction factor r_{Cu}		0.46
Reduction factor r_{304}		0.75
Reduction factor r_{Brass}		0.55
Output type		3-wire

Nominal ratings

Operating voltage	U_B	10 ... 30 V
Switching frequency	f	0 ... 150 Hz
Hysteresis	H	typ. 5 %
Reverse polarity protection		reverse polarity protected
Short-circuit protection		pulsing

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

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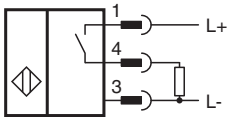
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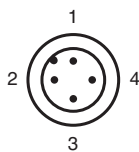
Technical Data

Voltage drop	U_d	$\leq 1\text{ V}$
Operating current	I_L	0 ... 100 mA
Off-state current	I_r	max. 20 μA
No-load supply current	I_0	$\leq 10\text{ mA}$
Time delay before availability	t_v	$\leq 10\text{ ms}$
Switching state indicator		Multihole-LED, yellow
Compliance with standards and directives		
Standard conformity		
Standards		EN IEC 60947-5-2
Approvals and certificates		
UL approval		cULus Listed, General Purpose, Class 2 Power Source
CCC approval		CCC approval / marking not required for products rated $\leq 36\text{ V}$
Ambient conditions		
Ambient temperature		-25 ... 70 °C (-13 ... 158 °F)
Mechanical specifications		
Connection type		Connector plug
Housing material		brass , white bronze coated
Sensing face		PBT , green
Degree of protection		IP67
Connector		
Threading		M12 x 1
Number of pins		3
Mass		58 g
Dimensions		
Length		65 mm
Diameter		18 mm
Mounting		with nuts, M18
Tightening torque		$\leq 30\text{ Nm}$
General information		
Scope of delivery		Supplied with 2 nuts

Connection



Connection Assignment



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Connection Assignment

Wire colors in accordance with EN 60947-5-2

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