

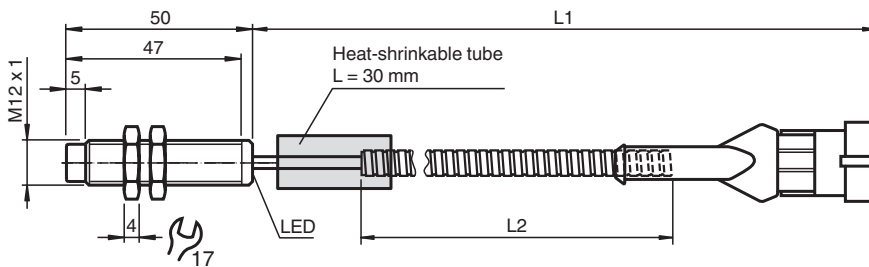
# Inductive sensor

## NBN4-12GM50-E2-Y292474

■ 4 mm non-flush



### Dimensions



### Technical Data

#### General specifications

Rated operating distance	$s_n$	4 mm
Installation		non-flush
Output polarity		DC
Assured operating distance	$s_a$	0 ... 3.24 mm
Reduction factor $r_{Al}$		0.5
Reduction factor $r_{Cu}$		0.4
Reduction factor $r_{304}$		0.8
Output type		3-wire
Hysteresis	H	typ. 5%

#### Nominal ratings

Operating voltage	$U_B$	10 ... 30 V
Switching frequency	f	0 ... 1200 Hz
Reverse polarity protection		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	$U_d$	$\leq 3$ V

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

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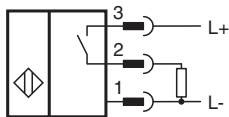
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## Technical Data

Repeat accuracy	R	≤ 0.01 mm
Operating current	I <sub>L</sub>	0 ... 200 mA
Off-state current	I <sub>r</sub>	0 ... 0.5 mA typ. 0.1 µA at 25 °C
No-load supply current	I <sub>0</sub>	≤ 17 mA
Time delay before availability	t <sub>v</sub>	≤ 8 ms
Switching state indicator		LED, yellow
<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>Compliance with standards and directives</b>		
Standard conformity		
Standards		EN 60947-5-2:2007 EN 60947-5-2/A1:2012 IEC 60947-5-2:2007 IEC 60947-5-2 AMD 1:2012
<b>Approvals and certificates</b>		
UL approval		cULus Listed, General Purpose
CCC approval		CCC approval / marking not required for products rated ≤36 V
<b>Ambient conditions</b>		
Ambient temperature		-25 ... 70 °C (-13 ... 158 °F)
<b>Mechanical specifications</b>		
Connection type		cable PVC , L1 = 395 mm , L2 = 280 mm
Connection assembly		AMP housing 282105-1 AMP crimp 282404-1 AMP sealing 281934-2 Schlemmer corrugated tube 1926304 Cable bushing: MTA 45.20921
Core cross-section		0.34 mm <sup>2</sup>
Housing material		brass, nickel-plated
Sensing face		PBT
Degree of protection		IP67
<b>General information</b>		
Scope of delivery		2 self locking nuts in scope of delivery

## Connection



## Accessories

	<b>BF 12</b>	Mounting flange, 12 mm
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