

# Inductive sensor

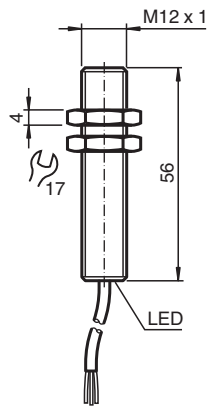
## NBB2-12GM60-E2-T



- 2 mm flush
- Extended operating voltage range
- Extended temperature range



### Dimensions



### Technical Data

General specifications		
Switching function		Normally open (NO)
Output type		PNP
Rated operating distance	$s_n$	2 mm
Installation		flush
Output polarity		DC
Assured operating distance	$s_a$	0 ... 1.62 mm
Actuating element		mild steel, e. g. 1.0037, SR235JR (formerly St37-2) 12 mm x 12 mm x 1 mm
Reduction factor $r_{Al}$		0.35
Reduction factor $r_{Cu}$		0.2
Reduction factor $r_{304}$		0.7
Reduction factor $r_{Brass}$		0.4
Output type		3-wire
Nominal ratings		
Operating voltage	$U_B$	10 ... 65 V
Switching frequency	f	0 ... 1200 Hz
Hysteresis	H	0.02 ... 0.44

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

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## Technical Data

Reverse polarity protection		yes
Short-circuit protection		yes
Overload resistance		yes
Wire breakage protection		yes
Inductive overvoltage protection		yes
Surge suppression		yes
Ripple		10 %
Voltage drop	$U_d$	$\leq 2.5 \text{ V}$
Repeat accuracy	R	0.1 mm
Operating current	$I_L$	0 ... 300 mA
Off-state current	$I_r$	0.01 mA
No-load supply current	$I_0$	$\leq 10 \text{ mA}$
Time delay before availability	$t_v$	$\leq 40 \text{ ms}$
Switching state indicator		Multihole-LED, yellow
<b>Functional safety related parameters</b>		
MTTF <sub>d</sub>		1510 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
<b>Ambient conditions</b>		
Ambient temperature		-25 ... 100 °C (-13 ... 212 °F)
Storage temperature		-40 ... 100 °C (-40 ... 212 °F)
<b>Mechanical specifications</b>		
Connection type		cablE PUR , 2 m
Core cross section		0.25 mm <sup>2</sup>
Housing material		brass, nickel-plated
Sensing face		PBT
Degree of protection		IP67
Mass		75 g

## Connection



## Accessories

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