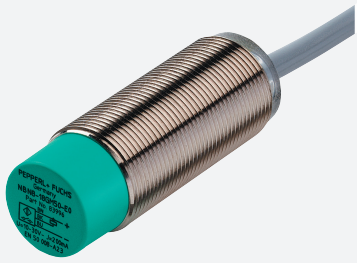


Inductive sensor

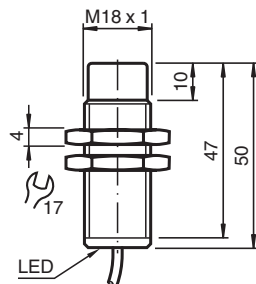
NCN8-18GM50-E2-3G-3D-5M



- Comfort series
- ATEX-approval for zone 2 and zone 22



Dimensions



Technical Data

General specifications

Switching function		Normally open (NO)
Output type		PNP
Rated operating distance	s_n	8 mm
Installation		non-flush
Output polarity		DC
Assured operating distance	s_a	0 ... 6.48 mm
Actual operating distance	s_r	7.2 ... 8.8 mm typ. 8 mm
Reduction factor r_{AI}		0.45
Reduction factor r_{Cu}		0.4
Reduction factor r_{304}		0.7
Output type		3-wire

Nominal ratings

Operating voltage	U_B	10 ... 60 V
Switching frequency	f	0 ... 400 Hz
Hysteresis	H	1 ... 10 typ. 5 %

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

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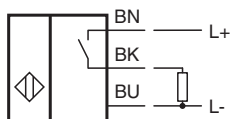
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 **PEPPERL+FUCHS**

Technical Data

Reverse polarity protection		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	U_d	$\leq 3 \text{ V}$
Voltage drop at I_L		
Voltage drop $I_L = 200 \text{ mA}$, switching element on	U_d	$1.5 \dots 2.5 \text{ V typ. } 1.9 \text{ V}$
Operating current	I_L	$0 \dots 200 \text{ mA}$
Lowest operating current	I_m	0 mA
Off-state current	I_r	$0 \dots 0.5 \text{ mA typ. } 0.01 \text{ mA}$
Off-state current $T_U = 40^\circ \text{C}$, switching element off		$\leq 100 \mu\text{A}$
No-load supply current	I_0	$\leq 10 \text{ mA}$
Time delay before availability	t_v	&es
Switching state indicator		LED, yellow
Functional safety related parameters		
MTTF _d		1497 a
Mission Time (T_M)		20 a
Diagnostic Coverage (DC)		0 %
Compliance with standards and directives		
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
Approvals and certificates		
CCC approval		Certified by China Compulsory Certification (CCC)
Ambient conditions		
Ambient temperature		$-25 \dots 70^\circ \text{C}$ ($-13 \dots 158^\circ \text{F}$)
Storage temperature		$-40 \dots 85^\circ \text{C}$ ($-40 \dots 185^\circ \text{F}$)
Mechanical specifications		
Connection type		cable PVC , 5 m
Core cross-section		0.5 mm^2
Housing material		Stainless steel 1.4305 / AISI 303
Sensing face		PBT
Degree of protection		IP67
Cable		
Bending radius		$> 10 \times \text{cable diameter}$
Equipment protection level Dc (tc)		
Special conditions		
Maximum permissible ambient temperature T_{Umax}		dependant of the load current I_L and the max. operating voltage U_{Bmax} Information can be taken from the following list.
General information		
Use in the hazardous area		see instruction manuals

Connection



Accessories

	BF 18	Mounting flange, 18 mm
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