

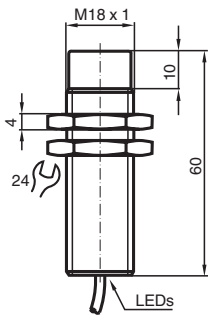
Inductive sensor NBN8-18GM60-WS



- 8 mm non-flush
- 2-wire AC



Dimensions



Technical Data

General specifications		
Switching function		Normally open (NO)
Output type		Two-wire
Rated operating distance	s_n	8 mm
Installation		non-flush
Output polarity		AC
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}		0.4
Reduction factor r_{Cu}		0.4
Reduction factor r_{304}		0.7
Output type		2-wire
Nominal ratings		
Operating voltage	U_B	20 ... 253 V
Switching frequency	f	0 ... 20 Hz
Hysteresis	H	typ. 7.5 %
Reverse polarity protection		reverse polarity tolerant

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

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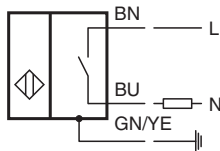
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PEPPERL+FUCHS

Technical Data

Voltage drop	U _d	< 5 V (I _L > 50 mA); < 8 V (I _L < 50 mA)
Momentary current (20 ms, 0.1 Hz)		0 ... 1600 mA
Operating current	I _L	5 ... 200 mA
Off-state current	I _r	0 ... 1.7 mA typ.
Time delay before availability	t _v	≤ 30 ms
Operating voltage indicator		LED, green
Switching state indicator		LED, yellow
Functional safety related parameters		
MTTF _d		1103 a
Mission Time (T _M)		20 a
Diagnostic Coverage (DC)		0 %
Compliance with standards and directives		
Standard conformity		
Standards		EN IEC 60947-5-2
Approvals and certificates		
UL approval		cULus Listed, General Purpose
CSA approval		cCSAus Listed, General Purpose
CCC approval		Certified by China Compulsory Certification (CCC)
Ambient conditions		
Ambient temperature		-25 ... 70 °C (-13 ... 158 °F)
Mechanical specifications		
Connection type		cablc PVC , 2 m
Core cross section		0.34 mm ²
Housing material		brass, nickel-plated
Sensing face		PBT
Degree of protection		IP67
Cable		
Cable diameter		4.6 mm ± 0.2 mm
Bending radius		> 10 x cable diameter
Dimensions		
Length		60 mm
Diameter		18 mm
Note		1) In the temperature range below 0 °C, permissible operating voltage U _b 80...253 V Safety fuse ≤ 0.8 A (quick-blow) according to IEC 60127-2 Sheet 1 Recommendation: after a short circuit, check that the device is functioning correctly.

Connection



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