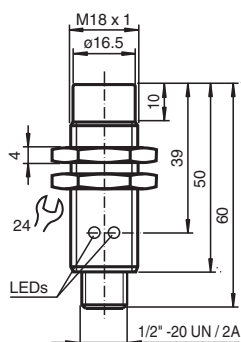


Inductive sensor NBN8-18GM60-WS-V12

- 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_{Al}		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
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

Release date: 2025-06-06 Date of issue: 2025-06-06 Filename: 131309_eng.pdf

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

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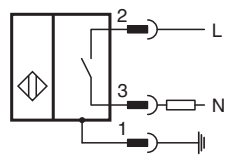
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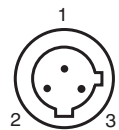
Technical Data

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	Connector plug 1/2"-20 UN , 3-pin
Housing material	brass, nickel-plated
Sensing face	PBT
Degree of protection	IP67
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



Connection Assignment



Wire colors

1	GN (green)
2	RD/BK (red/black)
3	RD/WH (red/white)