

Inductive sensor

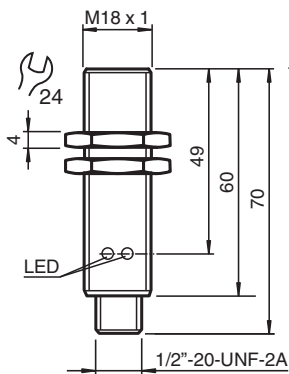
NBB5-18GM60-WO-V12



- 5 mm flush
- 2-wire AC



Dimensions



Technical Data

General specifications		
Switching function		Normally closed (NC)
Output type		Two-wire
Rated operating distance	s _n	5 mm
Installation		flush
Output polarity		AC
Assured operating distance	s _a	0 ... 4.05 mm
Actual operating distance	s _r	4.5 ... 5.5 mm typ. 5 mm
Reduction factor r _{Al}		0.2
Reduction factor r _{Cu}		0.2
Reduction factor r ₃₀₄		0.6
Output type		2-wire
Nominal ratings		
Operating voltage	U _B	20 ... 253 V
Switching frequency	f	0 ... 20 Hz
Hysteresis	H	typ. 6 %

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

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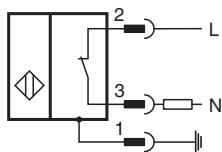
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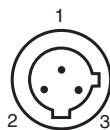
Technical Data

Reverse polarity protection		reverse polarity tolerant
Voltage drop	U_d	$< 5 \text{ V } (I_L > 50 \text{ mA}); < 8 \text{ V } (I_L < 50 \text{ mA})$
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	$\leq 30 \text{ ms}$
Operating voltage indicator		LED, green
Switching state indicator		LED, yellow
Functional safety related parameters		
MTTF _d		1135 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		
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
Note		¹⁾ In the temperature range below 0 °C, permissible operating voltage U_b 80...253 V Safety fuse $\leq 0.8 \text{ A}$ (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)

Accessories

	BF 18	Mounting flange, 18 mm
	EXG-18	Quick mounting bracket with dead stop
	V12-G-YE2M-PVC	Connecting cable, 1/2" - 20 UNF, 3-pin, PVC cable

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