

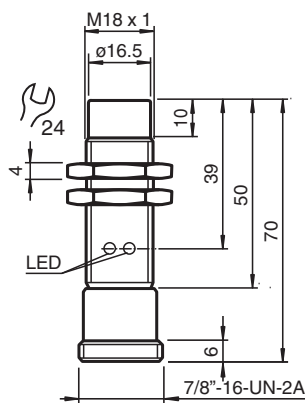
Inductive sensor

NBN8-18GM80-WS-V93

- 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

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

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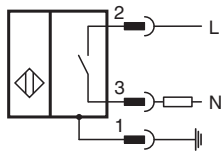
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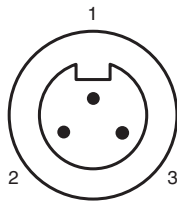
Technical Data

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 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 7/8 inch-16 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 ≤ 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	BK	(black)
3	WH	(white)

Accessories

	BF 18	Mounting flange, 18 mm
	V93-G-YE2M-STOOW	Female cordset, 7/8", 3-pin, STOOW cable

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