

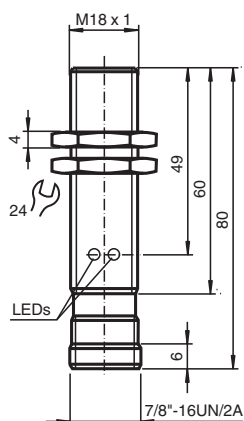


Inductive sensor NBB5-18GM80-WS-V93

- 5 mm flush
- 2-wire AC



Dimensions



Technical Data

General specifications

Switching function		Normally open (NO)
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_{AI}		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 %
Reverse polarity protection		reverse polarity tolerant

Release date: 2025-06-06 Date of issue: 2025-06-06 Filename: 124316_eng.pdf

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

Pepperl+Fuchs Group
www.pepperl-fuchs.com

USA: +1 330 486 0001
fa-info@us.pepperl-fuchs.com

Germany: +49 621 776 1111
fa-info@de.pepperl-fuchs.com

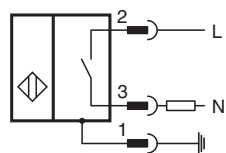
Singapore: +65 6779 9091
fa-info@sg.pepperl-fuchs.com

PEPPERL+FUCHS

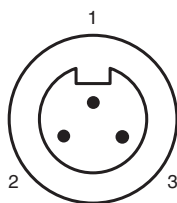
Technical Data

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
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		$-25 \dots 70\text{ }^{\circ}\text{C } (-13 \dots 158\text{ }^{\circ}\text{F})$
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
Dimensions		
Length		80 mm
Diameter		18 mm
Note		1) In the temperature range below $0\text{ }^{\circ}\text{C}$, 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



Release date: 2025-06-06 Date of issue: 2025-06-06 Filename: 124316_eng.pdf

Connection Assignment

Wire colors

1	GN	(green)
2	BK	(black)
3	WH	(white)

Release date: 2025-06-06 Date of issue: 2025-06-06 Filename: 124316_eng.pdf