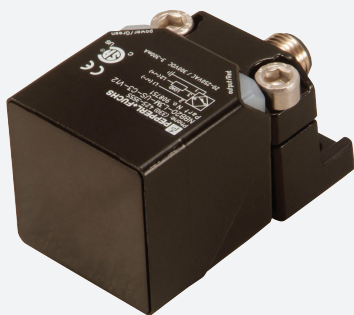




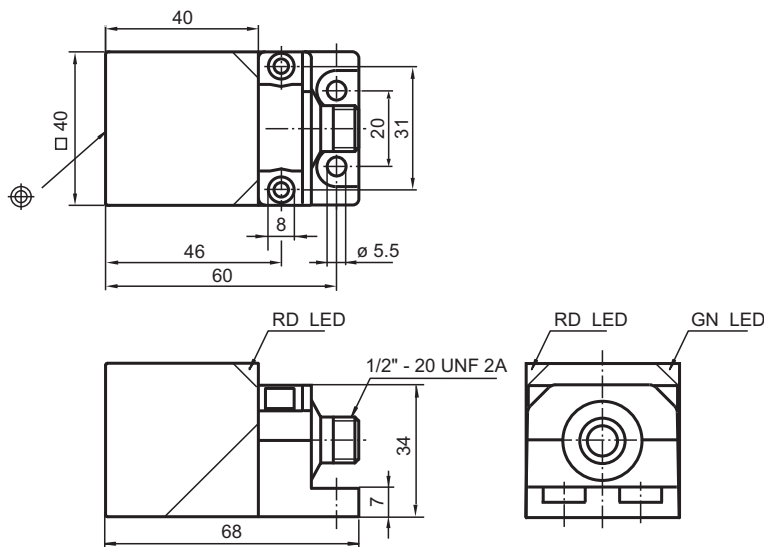
Inductive sensor

NBB20-L3M-US-C3-V12

- Sensing range 20 mm
- Weld Immune
- 2-corner LED, metal base & mount



Dimensions



Technical Data

General specifications			
Switching function	Normally open (NO)		
Output type	Two-wire		
Rated operating distance	s_n	20 mm	
Installation	flush		
Output polarity	AC/DC		

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

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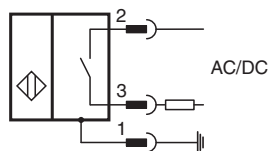
Singapore: +65 6779 9091
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PEPPERL+FUCHS

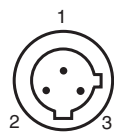
Technical Data

Assured operating distance	s_a	0 ... 16.2 mm
Actual operating distance	s_r	18 ... 22 mm
Reduction factor r_{AI}		0.30 - 0.40
Reduction factor r_{304}		0.60 - 0.80
Output type		2-wire
Nominal ratings		
Switching frequency	f	2 Hz
Hysteresis	H	3 ... 15 typ. 10 %
Reverse polarity protection		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	U_d	≤ 7 V
Operating current	I_L	3 ... 300 mA
Off-state current	I_r	≤ 1.7 mA
No-load supply current	I_0	≤ 0.6 mA
Operating voltage indicator		LED, green
Switching state indicator		LED, red
Indicators/operating means		
LED red/green		Short circuit/overload indication
Electrical specifications		
Rated operating voltage	U_e	24 ... 250 V DC / 24 ... 230 V AC
Operating voltage	U_B	20 ... 300 V DC / 20 ... 253 V AC
Compliance with standards and directives		
Standard conformity		
Standards		IEC 61000-4 / EN 60947-5-2:2004
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)
Storage temperature		-40 ... 85 °C (-40 ... 185 °F)
Mechanical specifications		
Connection type		Connector plug 1/2"-20 UN , 3-pin
Housing material		Zinc, PTFE coated
Sensing face		Thermoset Plastic
Housing base		Zinc, PTFE coated
Degree of protection		IP67

Connection



Connection Assignment



Wire colors

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

Accessories

	V12-W-YE2M-PUR-H/S	Connecting cable, 1/2" - 20 UNF, 3-pin, irradiated PUR cable
	MHW 01	Modular mounting bracket
	MH 02-L	Mounting aid
	V12-G-YE2M-PVC	Connecting cable, 1/2" - 20 UNF, 3-pin, PVC cable

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