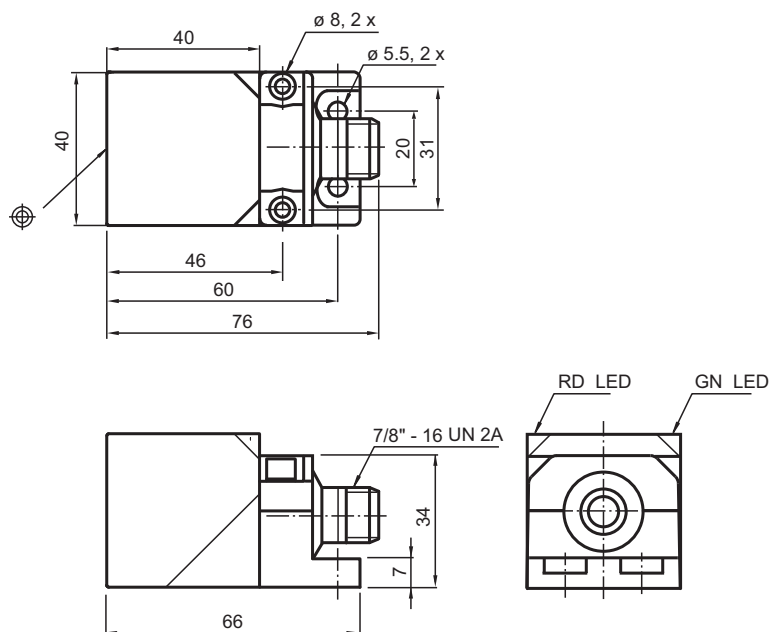


Inductive sensor NBB20-L3M-US-C3-V93

- Sensing range 20 mm
- Weld Immune
- 2-corner LED, metal base & mount
- 2-wire AC/DC



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".

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

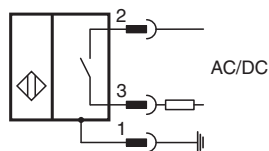
Singapore: +65 6779 9091
fa-info@sg.pepperl-fuchs.com

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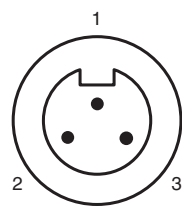
Technical Data

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

Accessories

	MHW 01	Modular mounting bracket
	MH 02-L	Mounting aid
	V93-G-YE2M-ST00W	Female cordset, 7/8", 3-pin, ST00W cable

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