

Model Number

NBB20-L3M-US-C3-V93

Features

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

Accessories

V93-G-YE2M-STOOW

Female cordset, 7/8" - 16 UNF, 3-pin, PUR cable

MHW 01

Modular mounting bracket

MH 02-L

Mounting aid

Technical Data

General specifications

Switching element function	AC/DC normally open
Rated operating distance	s_n 20 mm
Installation	flush
Output polarity	AC/DC
Assured operating distance	s_a 0 ... 16.2 mm
Reduction factor r_{AI}	0.30 - 0.40
Reduction factor r_{304}	0.60 - 0.80

Nominal ratings

Operating voltage	U_B 20 ... 250 V AC/DC
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 display	LED, green
Switching state indication	LED, red

Indicators/operating means

LED red/green	Short circuit/overload indication
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Ambient conditions

Ambient temperature	-25 ... 70 °C (-13 ... 158 °F)
Storage temperature	-40 ... 85 °C (-40 ... 185 °F)

Mechanical specifications

Connection type	Connector 7/8"-16 UN , 3-pin
Housing material	Zinc, PTFE coated
Sensing face	Thermoset Plastic
Housing base	Zinc, PTFE coated
Protection degree	IP67

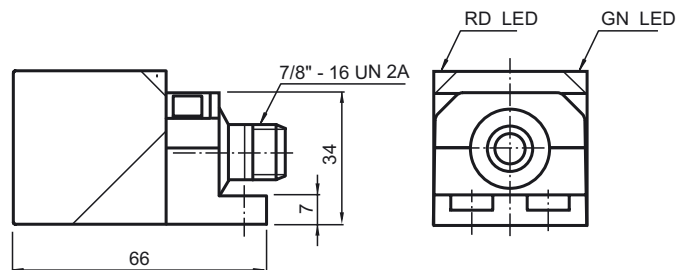
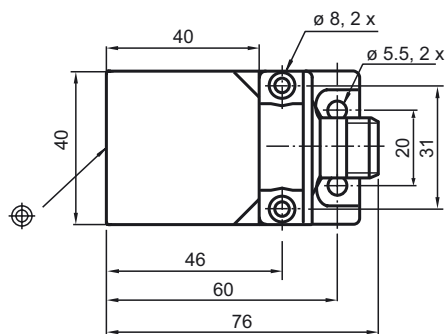
Compliance with standards and directives

Standard conformity	
Standards	IEC 61000-4 / EN 60947-5-2:2004

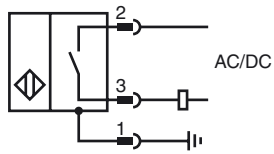
Approvals and certificates

UL approval	cULus Listed, General Purpose
CSA approval	cCSAus Listed, General Purpose
CCC approval	Certified by China Compulsory Certification (CCC)

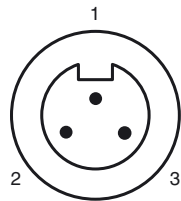
Dimensions



Electrical Connection



Pinout



Wire colors

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