

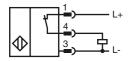
Model Number

NBB20-L2M-E34-V1

Features

- **Basic series**
- 20 mm flush
- 3-wire DC
- 4-wire DC
- 4-way LED indicator

Connection



Pinout



Wire colors in accordance with EN 60947-5-2

1	BN	(brown
2	WH	(white)
3	BU	(blue)
4	BK	(black)

Accessories

Date of issue: 2012-11-28 187537 eng.xml

4-pin, M12 female field-attachable connector

V1-W

4-pin, M12 female field-attachable connector

V1-W-2M-PUR

Cable socket, M12, 4-pin, PUR cable

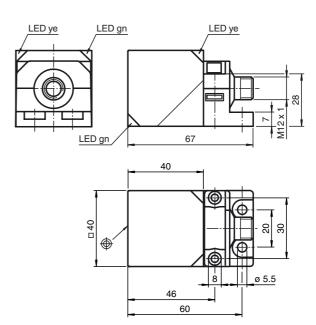
V1-G-2M-PUR Cable socket, M12, 4-pin, PUR cable

MHW 01 Modular mounting bracket

MH 02-L

Subject to modifications without notice USA: +1 330 486 0001

Dimensions



Technical Data

General specifications			
Switching element function		PNP	NC
Rated operating distance	s _n	20 mm	
Installation		flush	
Output polarity		DC	
Assured operating distance	s _a	0 16.2	mm
Reduction factor r _{Al}		0.33	
Reduction factor r _{Cu}		0.31	
Reduction factor r ₃₀₄		0.74	
Reduction factor r _{Brass}		0.41	

Reduction factor r_{Brass} **Nominal ratings**

Operating voltage	U_B	10 30 V DC
Switching frequency	f	0 150 Hz
Hysteresis	Н	typ. 5 %
Reverse polarity protection		reverse polarity protec
Short-circuit protection		pulsing
Voltage drop	U_d	≤ 2 V
Operating current	ال	0 200 mA
Off-state current	l _r	0 0.5 mA
No-load supply current	I ₀	≤ 20 mA
Time delay before availability	t _v	80 ms
Operating voltage display		LED, green

Indication of the switching state Functional safety related parameters

1500 a Mission Time (T_M) 20 a 0 %

Diagnostic Coverage (DC) Ambient conditions

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

Mechanical specifications

Connection type Device connector M12 x 1 , 4-pin PA-GF35 Housing material metal base Xylan coated

metal mounting flange Xylan coated.

LED, yellow

Sensing face PA-GF35 IP69K Protection degree 155 g

Compliance with standards and directives

Standard conformity

EN 60947-5-2:2007 Standards IEC 60947-5-2:2007

Approvals and certificates

Protection class 253 V Rated insulation voltage 4000 V

Design-impulse-voltage with stand U_{imp} cULus Listed, General Purpose **UL** approval CSA approval cCSAus Listed, General Purpose

CCC approval Products with a maximum operating voltage of ≤36 V do not bear a CCC marking because they do not require approval.

Release date: