

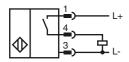
Model Number

NBB20-L2-E2-V1

Features

- 20 mm embeddable
- 3-wire DC
- **Quick mounting bracket**
- 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

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Date of issue: 2011-07-22

2011-07-22

V1-G 4-pin, M12 female field-attachable connector

V1-W

4-pin, M12 female field-attachable connector V1-G-2M-PUR

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

Cable socket, M12, 4-pin, PUR cable

MHW 01 Modular mounting bracket

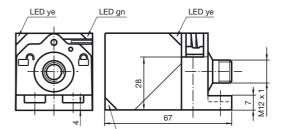
MH 02-L Mounting aid

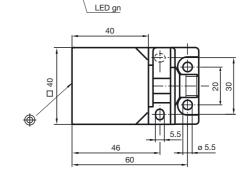
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Dimensions





Technical Data

General	specifi	ications

acriciai opcomoationo		
Switching element function		PNP NO
Rated operating distance	s _n	20 mm
Installation		embeddable
Output polarity		DC
Assured operating distance	sa	0 16.2 mm
Reduction factor r _{Al}		0.33
Reduction factor r _{Cu}		0.31
Reduction factor r ₃₀₃		0.74
Reduction factor r _{Brass}		0.41

Nominal ratings		
Operating voltage	U_{B}	10 30 V DC
Switching frequency	f	0 150 Hz
Hysteresis	Н	typ. 5 %
Reverse polarity protected		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	U_d	≤ 2 V
Operating current	IL.	0 200 mA
Off-state current	l _r	0 0.5 mA
No-load supply current	I ₀	≤ 20 mA
Operating voltage display		LED, green
Indication of the switching state		LED, yellow

Functional safety related parameters

MTTF _d	1460 a
Mission Time (T _M)	20 a
Diagnostic Coverage (DC)	0 %

Ambient conditions

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

IVIC	chamear specifications	
С	connection type	Device connector M12 x 1, 4-pin
Н	lousing material	PA
S	ensing face	PA
Pı	rotection degree	IP69K
N/I	lana	120 a

Compliance with standards and directives

Standard conformity

Standards	EN 60947-5-2:2007
	IEC 60947-5-2:200

Approvals and certificates

1 TOLECTION Class		"
Rated insulation voltage	Ui	253 V
Design-impulse-voltage withstand	l U _{imp}	4000 V

UL approval	cULus Listed, General Purpose
CSA approval	cCSAus Listed, General Purpose

CCC appiovai	Froducts with a maximum operating voltage of 500 v do not bear a
	CCC marking because they do not require approval.

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E2ECQC2D1M1GJT03M E2EX10D1NN E2E-X14MD1-G E2E-X2D1-G E2EX2ME2N E2E-X3D1-N 10M E2E-X4MD1-G

E2FMX1R5D12M E2K-F10MC1 5M EC3016PPASL-1 EI1204TBOSL-6 EI5515NPAP BSA-08-25-08 IC08ANC15PO-K 25.161.3253.0 25.332.0653.1 25.352.0653.0 25.352.0753.0 25.523.3253.0 922FS1.5C-A4P-Z774 SC606ABV0S30 SM552A100 SM952A126100LE SM956A132600 A1220EUA-T F3S-A162-U CL18 QT-08L 34.110.0010.0 TL-C2MF1-M3-E4 IA08BLF15NOM5 IA08BSF15NOM5 IA12ASF04DOM1 IS2 IS31SE5000-UTLS2-TR 34.110.0021.0 34.110.0022.0 CA150-120VACDC VM18VA3000Q XS508BSCBL2 XS512BLNAM12