

c(UL)us









Model Number

NBB20-L2M-E2-V1

Features

- Sensor head bidirectional and rotatable
- 20 mm flush
- 3-wire DC
- 4-way LED indicator

Accessories

V1-G

Female connector, M12, 4-pin, field attachable

V1-W

Female connector, M12, 4-pin, field attachable

V1-G-2M-PUR

Female cordset, M12, 4-pin, PUR cable

V1-W-2M-PUR

Female cordset, M12, 4-pin, PUR cable

MHW 01

Modular mounting bracket

MH 02-L Mounting aid Technical Data
General specifications

Switching element function		PNP	NO
Rated operating distance	s _n	20 mm	
Installation		flush	
Output polarity		DC	
Assured operating distance	sa	0 16.2 mm	1
Actual operating distance	s _r	18 22 mm	
Reduction factor r _{Al}		0.33	
Reduction factor r _{Cu}		0.31	
Reduction factor r ₃₀₄		0.74	
Reduction factor re		0.41	

Nominal ratings

Operating voltage
Switching frequency
Hysteresis

Operating voltage
From 10 ... 30 V DC
0 ... 440 Hz
From 10 ... 440 Hz

Operating voltage indicator

Switching state indicator

Functional safety related parameters

Only of the delay of the del

 $\begin{array}{c} \text{MTTF}_d & 1460 \text{ a} \\ \text{Mission Time } (T_M) & 20 \text{ a} \\ \text{Diagnostic Coverage (DC)} & 0 \% \end{array}$

 Ambient conditions
 -25 ... 85 °C (-13 ... 185 °F)

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

Mechanical specifications

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

metal mounting flange Xylan coated.

Sensing face PA-GF35

Degree of protection IP69K Mass 155 g

Compliance with standards and directives

Standard conformity

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

Approvals and certificates

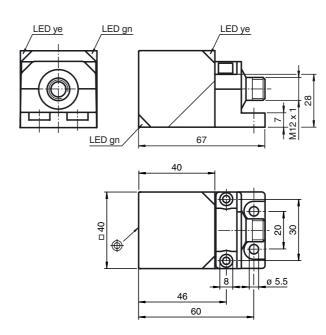
EAC conformity TR CU 020/2011 Protection class II

Rated insulation voltage U_i 253 V
Rated impulse withstand voltage U_{imp} 4000 V

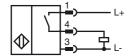
UL approval cULus Listed, General Purpose CSA approval cCSAus Listed, General Purpose

CCC approval / marking not required for products rated ≤36 V

Dimensions



Electrical Connection



Pinout



Wire colors in accordance with EN 60947-5-2

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