



EHE

Model Number

NBB20-L2-A2-T-V1

Features

- Sensor head bidirectional and rotatable
- 20 mm flush
- 4-wire DC
- Quick mounting bracket
- 4-way LED indicator
- Temperature range -25 ... 100 °C (-13 ... 212 °F)

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

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Rated operating distance	s _n	20 mm
Installation		flush
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 ₃₀₄		0.74
Reduction factor r _{Brass}		0.41
Output type		4-wire

LED, yellow

Nominal ratings

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Operating voltage	U _B	10 30 V DC
Switching frequency	f	0 440 Hz
Hysteresis	Н	typ. 5 %
Reverse polarity protection		reverse polarity protected

Switching state indicator
Functional safety related parameters

 $\begin{array}{ll} \text{MTTF}_d & \text{1230 a} \\ \text{Mission Time (T_M)} & \text{20 a} \\ \text{Diagnostic Coverage (DC)} & \text{0 } \% \end{array}$

Ambient conditions

Ambient temperature -25 ... 100 °C (-13 ... 212 °F)

Mechanical specifications

Connection type Connector M12 x 1 , 4-pin
Housing material PA
Sensing face PA

Degree of protection IP69K
Mass 130 g

Compliance with standards and directives

Standard conformity

Standards EN 60947-5-2:2007 EN 60947-5-2/A1:2012

EN 60947-5-2/A1:2012 IEC 60947-5-2:2007 IEC 60947-5-2 AMD 1:2012

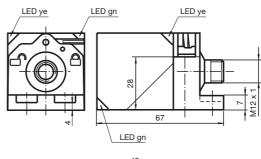
Approvals and certificates

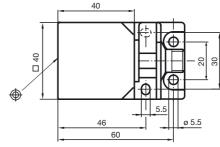
EAC conformity TR CU 020/2011
Protection class II
Rated insulation voltage U_i 253 V

Rated impulse withstand voltage U_{imp} 4000 V

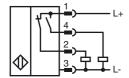
UL approval cULus Listed, General Purpose
CCC approval CCC approval / marking not required for products rated ≤36 V

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)

FPEPPERL+FUCHS