

CE

Model Number

NBB15-U1-A2-V1

Features

- Sensor head bidirectional and ٠ rotatable
- 15 mm flush
- 4 LEDs indicator for 360° visibility

Accessories

V1-W Female connector, M12, 4-pin, field attachable V1-W-2M-PUR Female cordset, M12, 4-pin, PUR cable **MHW 01** Modular mounting bracket MH 04-2681F Mounting aid for VariKont, +U1+ and +U9* V1-G Female connector, M12, 4-pin, field attachable V1-G-2M-PUR Female cordset, M12, 4-pin, PUR cable

Technical Data General specifications Switching function Output type Rated operating distance Sn Installation Output polarity Assured operating distance Reduction factor r_{AI} sa Reduction factor r_{Cu} Reduction factor r₃₀₄ Reduction factor r_{Brass} Output type Nominal ratings Operating voltage Switching frequency U_B Hysteresis н Reverse polarity protection Short-circuit protection Voltage drop Ud Design data Operating current IL. Off-state current I, No-load supply current Time delay before availability l₀ t., Operating voltage indicator Switching state indicator Functional safety related parameters MTTF_d Mission Time (T_M) Diagnostic Coverage (DC) Ambient conditions Ambient temperature Mechanical specifications Connection type Housing material Sensing face Housing base Degree of protection Mass Note Compliance with standards and directives Standard conformity Standards Approvals and certificates

UL approval

CCC approval

PA plastic IP68 / IP69K 225 g Tightening torque: 1.8 Nm (housing) EN 60947-5-2:2007

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

-25 ... 85 °C (-13 ... 185 °F)

Connector plug M12 x 1 , 4-pin PA/metal with epoxy powder coating

complementary

PNP 15 mm

flush

DC 0 ... 12.15 mm 0.33

0.3

0.74

0.41

4-wire

10 ... 30 V 0 ... 560 Hz

reverse polarity protected

typ. 5 %

pulsing

0 ... 200 mA

0 ... 0.5 mA

LED, green

LED, yellow

≤ 20 mA

80 ms

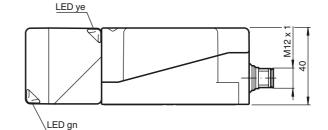
1230 a

20 a 0 %

≤2 V

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

Dimensions



118 60 46 LED gn 14 5.3 ¢ Ð 8 4 Æ \oplus G LED ye

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Refer to "General Notes Relating to Pepperl+Fuchs Product Information"

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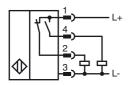
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Electrical Connection



Pinout



Wire colors in accordance with EN 60947-5-2

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

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