





Model Number

NRB2-8GM40-E2-C-V1

Features

- 2 mm flush
- Reduction factor = 1
- Magnetic field resistant
- **Weld Immune**

Accessories

BF 8 Mounting flange, 8 mm

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

Technical Data

General specifications Switching function Normally open (NO) Output type Rated operating distance PNP 2 mm Installation flush Output polarity DC 0 ... 1.62 mm

Assured operating distance Reduction factor r_{Al} Reduction factor r_{Cu} Reduction factor r₃₀₄ Reduction factor r_{St37}

Output type Nominal ratings

Operating voltage Switching frequency 10 ... 30 V DC 0 ... 1000 Hz Hysteresis Н typ. 5 % reverse polarity protected

3-wire

 $\begin{array}{l} \text{pulsing} \\ \leq 2.5 \text{ V} \end{array}$

200 mT

200 mT

1010.5 a

20 a 0 %

0 ... 100 mA

0 ... 0.5 mA typ. 0.1 μ A at 25 °C \leq 15 mA

Multihole-LED, yellow

-25 ... 70 °C (-13 ... 158 °F) -40 ... 85 °C (-40 ... 185 °F)

Connector M12 x 1 , 3-pin

Brass, PTFE coated

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

LCP, black

IP67

Reverse polarity protection Short-circuit protection U_d Voltage drop Operating current

ΙL Off-state current No-load supply current Constant magnetic field l₀ B Alternating magnetic field В Switching state indicator

Functional safety related parameters MTTF_d

Mission Time (T_M)
Diagnostic Coverage (DC) Ambient conditions

Ambient temperature Storage temperature

Mechanical specifications Connection type Housing material

Sensing face Degree of protection Compliance with standards and

Standard conformity Standards

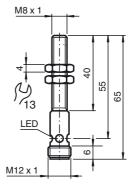
directives

Approvals and certificates

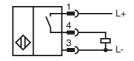
cULus Listed, General Purpose UL approval CCC approval

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
3	BU	(blue)
4	BK	(black)