





Model Number

NRN6-8GM40-E2-C-V1

Features

- 6 mm non-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 Output type Rated operating distance Installation Output polarity Assured operating distance Reduction factor r_{Al} Reduction factor r_{Cu} Reduction factor r₃₀₄ Reduction factor r_{St37} Output type

Normally open (NO) PNP 6 mm

non-flush DC 0 ... 4.86 mm

3-wire

1010.5 a

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

20 a 0 %

Nominal ratings

Voltage drop

Operating voltage Switching frequency 10 ... 30 V DC 0 ... 400 Hz Hysteresis Н Reverse polarity protection Short-circuit protection

typ. 5 % reverse polarity protected $\begin{array}{l} \text{pulsing} \\ \leq 2.5 \text{ V} \end{array}$ U_d 0 ... 100 mA

ΙL

Operating current $0 \dots 0.5$ mA typ. 0.1 μA at 25 °C \leq 15 mA Off-state current No-load supply current Constant magnetic field l₀ B 200 mT Alternating magnetic field В 200 mT Multihole-LED, yellow

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 Connector M12 x 1 , 3-pin Housing material Brass, PTFE coated Sensing face LCP , black Degree of protection IP67

Compliance with standards and

directives

Standard conformity Standards

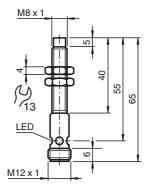
EN 60947-5-2:2007 IEC 60947-5-2:2007

Approvals and certificates

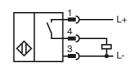
UL approval cULus Listed, General Purpose

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)
3	BU	(blue)
4	BK	(black)

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