





Model Number

NRN6-8GS40-E2-V1

Features

- 6 mm non-flush
- Reduction factor = 1
- Magnetic field resistant
- Stainless steel housing

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

non-flush DC 0 ... 4.86 mm

3-wire

PNP 6 mm

Nominal ratings

Operating voltage Switching frequency Hysteresis Reverse polarity protection

10 ... 30 V 0 ... 2500 Hz typ. 5 % reverse polarity protected

Normally open (NO)

Short-circuit protection $\begin{array}{l} \text{pulsing} \\ \leq 2.5 \text{ V} \end{array}$ 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

0 ... 200 mA 0 ... 0.5 mA typ. 0.1 μ A at 25 °C \leq 15 mA

200 mT 200 mT

Multihole-LED, yellow

Functional safety related parameters

Mission Time (T_M)
Diagnostic Coverage (DC)

20 a 0 %

1010.5 a

Ambient conditions

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

Mechanical specifications

Connection type Housing material Connector M12 x 1 , 3-pin Stainless steel 1.4305 / AISI 303 LCP, green Sensing face Degree of protection IP67

Compliance with standards and

directives

Standard conformity

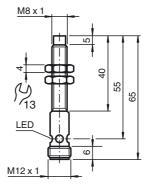
EN 60947-5-2:2007 IEC 60947-5-2:2007 Standards

Approvals and certificates

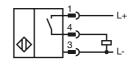
cULus Listed, General Purpose UL approval

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)