





#### **Model Number**

NBN3-8GM40-E0-V1

#### **Features**

- 3 mm non-flush
- Increased operating distance
- Extended temperature range -40 ... +85 °C

### **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 NPN 3 mm Installation non-flush Output polarity DC 0 ... 2.43 mm mild steel, e. g. 1.0037, SR235JR (formerly St37-2) Assured operating distance Actuating element

Reduction factor rAI Reduction factor r<sub>Cu</sub> Reduction factor r<sub>304</sub> Reduction factor r<sub>Brass</sub> Output type

**Nominal ratings** Operating voltage Switching frequency

Hysteresis Reverse polarity protection Short-circuit protection

Voltage drop  $U_d$ Operating current
Off-state current No-load supply current Time delay before availability Switching state indicator

Functional safety related parameters

MTTF<sub>d</sub>
Mission Time (T<sub>M</sub>)
Diagnostic Coverage (DC) 960 a 20 a 0 %

**Ambient conditions** 

-40 ... 85 °C (-40 ... 185 °F) -40 ... 85 °C (-40 ... 185 °F) Ambient temperature Storage temperature

Mechanical specifications

Connection type Connector plug M12 x 1, 4-pin brass, nickel-plated LCP Housing material Sensing face

Degree of protection General information

Scope of delivery

Compliance with standards and 2 hex nuts included

directives

Standard conformity

Standards

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

EN 60947-5-2:2007

8 mm x 8 mm x 1 mm

0.5

0.45

0.75

3-wire

5 ... 30 V

typ. 5%

pulsing

≤ 1.5 V

≤ 10 mA

≤ 100 ms

IP67

0 ... 100 mA 0 ... 0.2 mA

0 ... 4500 Hz

reverse polarity protected

Multihole-LED, yellow

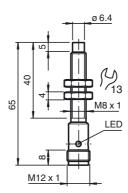
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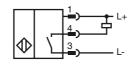
Approvals and certificates

cULus Listed, General Purpose, Class 2 Power Source 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)
2	WH	(white)
3	BU	(blue)
4	BK	(black)

2