







## **Model Number**

NRB8-18GM40-E2-C-V1

### **Features**

- Reduction factor = 1
- Magnetic field resistant
- Weld Immune

#### **Accessories**

BF 18

Mounting flange, 18 mm

**EXG-18** 

Quick mounting bracket with dead stop

V1-G

Female connector, M12, 4-pin, field attachable V1-W

Female connector, M12, 4-pin, field attachable

V1-G-OR2M-POC

Female cordset, M12, 4-pin, TPE cable, welding-bead resis-

## **Technical Data**

### General specifications

Switching function Normally open (NO) Output type Rated operating distance 8 mm Installation flush Output polarity
Assured operating distance DC 0 ... 6.48 mm Reduction factor rAI Reduction factor r<sub>Cu</sub> Reduction factor r<sub>304</sub> Reduction factor r<sub>St37</sub> 3-wire Output type

10 ... 30 V DC

#### Nominal ratings Operating voltage

 $U_{\mathsf{B}}$ Switching frequency 0 ... 600 Hz Н Hysteresis typ. 5 % Reverse polarity protection Short-circuit protection reverse polarity protected pulsing . ≤2 V U<sub>d</sub>

Voltage drop
Rated insulation voltage UBIS 60 V 0 ... 200 mA Operating current Off-state current 0 ... 0.5 mA typ. 0.1  $\mu A$  at 25 °C

No-load supply current Ϊ́ο ≤ 12 mA Time delay before availability Constant magnetic field t<sub>v</sub> B ≤ 20 ms 200 mT Alternating magnetic field 200 mT Switching state indicator Multihole-LED, yellow

Functional safety related parameters

MTTF<sub>d</sub>
Mission Time (T<sub>M</sub>)
Diagnostic Coverage (DC) 1393 a 20 a 0 %

**Ambient conditions** 

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

Mechanical specifications

Connector M12 x 1 , 4-pin Connection type Brass, PTFE coated Housing material Sensing face Degree of protection IP67

General information

Mass

2 self locking nuts in scope of delivery Scope of delivery

36 g

#### Compliance with standards and directives

Standard conformity

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

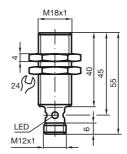
Approvals and certificates

Protection class 60 V Rated insulation voltage Rated impulse withstand voltage 800 V

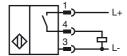
cULus Listed, General Purpose **UL** approval Class 2 power source CSA approval cCSAus Listed, General Purpose

Class 2 power source 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)

FPEPPERL+FUCHS

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