







#### **Model Number**

NRB15-30GS50-E3-V1

#### **Features**

- Reduction factor = 1
- Magnetic field resistant
- Stainless steel housing

### **Accessories**

BF 30

Mounting flange, 30 mm

**EXG-30** 

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-W-2M-PUR

Female cordset, M12, 4-pin, PUR cable V1-G-2M-PUR

Female cordset, M12, 4-pin, PUR cable

V1-G-OR2M-POC

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

### **Technical Data**

General	specifications	
Curital	ing function	NI.

Normally closed (NC) Output type Rated operating distance 15 mm Installation flush Output polarity
Assured operating distance DC 0 ... 12.15 mm Sa Reduction factor r<sub>Al</sub> Reduction factor r<sub>Cu</sub> Reduction factor r<sub>304</sub> Reduction factor r<sub>St37</sub>

10 ... 30 V DC

Nominal ratings  $U_{\mathsf{B}}$ 

Operating voltage Switching frequency 0 ... 750 Hz Н typ. 3 % Hysteresis Reverse polarity protection reverse polarity protected

Short-circuit protection pulsing Voltage drop ≤ 2 V Rated insulation voltage 60 V UBIS Operating current

0 ... 200 mA 0 ... 0.5 mA typ. 0.1 μA at 25 °C Off-state current No-load supply current ≤ 15 mA  $I_0$ 

Time delay before availability ≤ 20 ms t<sub>∨</sub> B Constant magnetic field 200 mT В 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>) 1140.2 a Diagnostic Coverage (DC) 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 Stainless steel 1.4305 / AISI 303 Housing material

Sensing face PBT Degree of protection Mass 113 g

General information

Scope of delivery 2 self locking nuts in scope of delivery

Compliance with standards and directives

Standard conformity

EN 60947-5-2:2007 Standards

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

Approvals and certificates

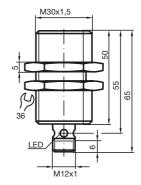
Protection class Ш 60 V Rated insulation voltage  $U_{i}$ 800 V Rated impulse withstand voltage  $U_{imp}$ 

UL approval cULus Listed, Type 1 enclosure

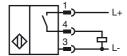
Class 2 power source

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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