





Model Number

NRB3-12GM40-E2-C-V1

Features

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

Accessories

BF 12

Mounting flange, 12 mm

EXG-12

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 resistant

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General specifications	

Switching function Normally open (NO) Output type Rated operating distance PNP 3 mm Installation flush Output polarity DC Assured operating distance Reduction factor r_{Al} 0 ... 2.43 mm Reduction factor r_{Cu} Reduction factor r₃₀₄

3-wire

pulsing

0 ... 200 mA

≤ 14 mA

≤ 15 ms

200 mT

1140.2 a 20 a

0 %

PPS

IP67

15 g

Multihole-LED, yellow

-25 ... 70 °C (-13 ... 158 °F)

-40 ... 85 °C (-40 ... 185 °F)

EN 60947-5-2:2007

IFC 60947-5-2:2007 IEC 60947-5-2 AMD 1:2012

EN 60947-5-2/A1:2012

Connector plug M12 x 1 , 4-pin Brass, PTFE coated

2 self locking nuts in scope of delivery

В

≤2 V

Output type Nominal ratings

Reduction factor r_{St37}

Operating voltage Switching frequency 10 ... 30 V DC 0 ... 2000 Hz Hysteresis typ. 5 % Reverse polarity protection reverse polarity protected

Short-circuit protection Voltage drop $U_{\rm d}$ Rated insulation voltage

60 V Operating current Off-state current $0 \dots 0.5$ mA typ. 0.1 μA at 25 $^{\circ} C$ No-load supply current Time delay before availability I₀ t_v B 200 mT

Constant magnetic field Alternating magnetic field 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 Housing material Sensing face Degree of protection Mass

General information Scope of delivery

Compliance with standards and directives

Standard conformity

Standards

Approvals and certificates Protection class 60 V Rated insulation voltage

Rated impulse withstand voltage

UL approval

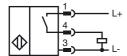
800 V cULus Listed, General Purpose, Class 2 Power Source, Type 1

CCC approval / marking not required for products rated ≤36 V

CCC approval **Dimensions**

45 55

Electrical Connection



Pinout



Wire colors in accordance with EN 60947-5-2

1	BN	(brown
2	WH	(white)
3	BU	(blue)
4	BK	(black)