





Model Number

NRB2-8GS40-E2-V3

Features

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

Accessories

BF 8 Mounting flange, 8 mm

V3-WM

Female connector, M8, 3-pin, field attachable

V3-GM

Female connector, M8, 3-pin, field attachable

V3-WM-2M-PUR

Cable socket, M8, 3-pin, PUR cable

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General specifications					
Switching function	Normally open (NO)				
Output type	PNP				

Rated operating distance 2 mm Installation flush Output polarity DC 0 ... 1.62 mm

Assured operating distance Reduction factor r_{Al} Reduction factor r_{Cu} Reduction factor r₃₀₄

Output type Nominal ratings

Reduction factor r_{St37}

Operating voltage Switching frequency 10 ... 30 V 0 ... 4000 Hz Hysteresis typ. 5 %

Reverse polarity protection reverse polarity protected pulsing ≤ 2.5 V Short-circuit protection

3-wire

U_d Voltage drop Operating current 0 ... 200 mA IL. 0 ... 0.5 mA typ. 0.1 μ A at 25 °C \leq 15 mA Off-state current

No-load supply current Constant magnetic field l₀ B 200 mT Alternating magnetic field В 200 mT Multihole-LED, yellow Switching state indicator

Functional safety related parameters

1010.5 a Mission Time (T_M)
Diagnostic Coverage (DC) 20 a 0 %

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 M8 x 1 , 3-pin Stainless steel 1.4305 / AISI 303

Sensing face LCP, green IP67 Degree of protection

Compliance with standards and directives

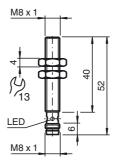
Standard conformity EN 60947-5-2:2007 IEC 60947-5-2:2007 Standards

Approvals and certificates

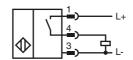
UL approval cULus Listed, General Purpose

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)

