

NRB4-12GH40-E2-V1

Features

- Reduction factor = 1
- Magnetic field resistant
- Stainless steel housing
- Front face FDA conform

Accessories

BF 12

Mounting flange, 12 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

Tech	nical	Data
	•	ications

Switching element function		PNP	NO
Rated operating distance	s _n	4 mm	
Installation		flush	
Output polarity		switched high	
Assured operating distance	sa	0 3.24 mm	1
Reduction factor r _{AI}		1	
Reduction factor r _{Cu}		1	
Reduction factor r ₃₀₄		1	
Reduction factor r _{St37}		1	

Nominal ratings 10 ... 30 V DC 0 ... 2000 Hz Operating voltage Switching frequency

Hysteresis Н typ. 5 % Reverse polarity protection reverse polarity protected Short-circuit protection pulsing

. ≤2 V Voltage drop UBIS 60 V Rated insulation voltage Operating current 0 ... 200 mA Off-state current

0 ... 0.5 mA typ. 0.1 μA at 25 °C ≤ 12 mA No-load supply current Time delay before availability ≤ 20 ms t_v B Constant magnetic field 200 mT

В

200 mT

Multihole-LED, yellow

Alternating magnetic field Switching state indicator Functional safety related parameters

MTTF_d Mission Time (T_M) 1393 a 20 a Diagnostic Coverage (DC)

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

Mechanical specifications

Connection type Connector M12 x 1, 4-pin Housing material stainless steel 1.4404 / AISI 316L Sensing face LCP, (conforms with FDA)

Degree of protection IP67 15 g General information

Scope of delivery Supplied with 2 nuts

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 Ui Rated impulse withstand voltage U_{imp} 800 V

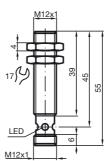
cULus Listed, General Purpose **UL** approval Class 2 power source

CSA approval cCSAus Listed, General Purpose Class 2 power source

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

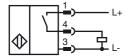
Dimensions



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PEPPERL+FUCHS

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