









Model Number

NRN10-12GS40-E3-V1

Features

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

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

Techni	ıcal	Data
General s	pecif	ications

Rated operating distance	s _n	10 mm
Installation		non-flush
Output polarity		switched high
Assured operating distance	s _a	0 8.1 mm
Reduction factor r _{Al}		1
Reduction factor r _{Cu}		1
Reduction factor r ₃₀₄		1
Reduction factor r _{St37}		1

Output type Nominal ratings

10 ... 30 V 0 ... 1500 Hz Operating voltage Switching frequency Hysteresis Н typ. 5 %

Reverse polarity protection reverse polarity protected Short-circuit protection pulsing

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

0 ... 0.5 mA typ. 0.1 μA at 25 °C ≤ 12 mA Off-state current No-load supply current

3-wire

Time delay before availability ≤ 20 ms t_v B Constant magnetic field 200 mT Alternating magnetic field Switching state indicator В 200 mT

Multihole-LED, yellow

Functional safety related parameters

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

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

Mechanical specifications

Connection type Connector M12 x 1, 4-pin Housing material Stainless steel 1.4305 / AISI 303 PBT

Sensing face Degree of protection IP67 15 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

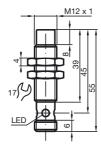
Protection class Ш 60 V Rated insulation voltage Ui Rated impulse withstand voltage U_{imp} 800 V

UL approval cULus Listed, General Purpose Class 2 power source

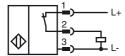
CSA approval cCSAus Listed, General Purpose Class 2 power source

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)

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