









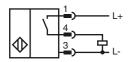
Model Number

NRN15-18GS40-E2-V1

Features

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

Connection



Pinout



Wire colors in accordance with EN 60947-5-2

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

Accessories

Mounting flange, 18 mm

V1-G

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Release date:

4-pin, M12 female field-attachable connector

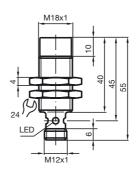
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4-pin, M12 female field-attachable connector

V1-G-2M-PUR Cable socket, M12, 4-pin, PUR cable

V1-W-2M-PUR Cable socket, M12, 4-pin, PUR cable

Dimensions



Technical Data

General specifications						
Switching element function		PNP	NO			
Rated operating distance	s _n	15 mm				
Installation		non-flush				
Output polarity		switched h	igh			
Assured operating distance	sa	0 12.15	mm			
Reduction factor r _{Al}		1				
Reduction factor r _{Cu}		1				
Reduction factor r ₃₀₄		1				

Reduction factor r_{St37} Nominal ratings

Operating voltage	U_{B}	10 30 V
Switching frequency	f	0 500 Hz
Hysteresis	Н	typ. 5 %
Reverse polarity protected		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	U _d	≤ 3 V
Rated insulation voltage	U _{BIS}	60 V
Operating current	IL .	0 100 mA
Off-state current	l _r	0 0.5 mA typ. 0.1 μA at 25 °C
No-load supply current	I ₀	≤ 15 mA
Constant magnetic field	В	200 mT

Indication of the switching state Functional safety related parameters

MTTF _d	1386 a
Mission Time (T _M)	20 a
Diagnostic Coverage (DC)	0 %

Ambient conditions

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

200 mT

Multihole-LED, yellow

Mechanical specifications

Alternating magnetic field

Connection type Housing material Device connector M12 x 1 , 4-pin Stainless steel 1.4305 / AISI 303 Crastin (PBTB) Sensing face Protection degree **IP67**

Compliance with standards and directives

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

Approvals and certificates

Protection class 60 V Rated insulation voltage U: 800 V Design-impulse-voltage withstand U_{imp}

UL approval cULus Listed, General Purpose CSA approval cCSAus Listed, General Purpose

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Singapore: +65 6779 9091

fa-info@sg.pepperl-fuchs.com

CCC approval Products with a maximum operating voltage of \leq 36 V do not bear a CCC marking because they do not require approval.