

NRB8-18GS50-E2-V1

Features

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

Accessories

BF 18

Mounting flange, 18 mm

EXG-18

Quick mounting bracket with dead stop ${\bf V1\text{-}G}$

Female connector, M12, 4-pin, field attachable

V1-WFemale connector, M12, 4-pin, field attachable

V1-W-2M-PUR

Female cordset, M12, 4-pin, PUR cable

V1-G-2M-PUR

Female cordset, M12, 4-pin, PUR cable

Camanal		
Generai	Specif	ications

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Switching element function		PNP	NO
Rated operating distance	s _n	8 mm	
Installation		flush	
Output polarity		switched hig	gh
Assured operating distance	sa	0 6.48 mr	n
Reduction factor r _{AI}		1	
Reduction factor r _{Cu}		1	
Reduction factor r ₃₀₄		1	
Reduction factor r _{St37}		1	

Nominal ratings

Operating voltage
Switching frequency

U
B
10 ... 30 V DC
0 ... 1200 Hz

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

Alternating magnetic field B 200 mT
Switching state indicator Multihole-LED, yellow
Functional safety related parameters

MTTF_d 1393 a
Mission Time (T_M) 20 a
Diagnostic Coverage (DC) 0 %

 Ambient conditions
 -25 ... 70 °C (-13 ... 158 °F)

 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
Sensing face PBT

Sensing face PBT
Degree of protection IP67
Mass 43 g
General information

Scope of delivery 2 self locking nuts in scope of delivery

Compliance with standards and directives

Standard conformity

Standards EN 60947-5-2:2007 EN 60947-5-2/A1:2012

EN 60947-5-2/A1:2012 IEC 60947-5-2:2007 IEC 60947-5-2 AMD 1:2012

Approvals and certificates

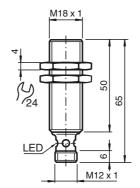
 $\begin{array}{ccc} \text{Protection class} & & \text{II} \\ \text{Rated insulation voltage} & \text{U}_{i} & \text{60 V} \\ \text{Rated impulse withstand voltage} & \text{U}_{imp} & \text{800 V} \\ \end{array}$

UL approval CULus Listed, General Purpose Class 2 power source

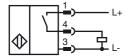
CSA approval cCSAus Listed, General Purpose Class 2 power source

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)

FPEPPERL+FUCHS

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