









Model Number

NRN15-18GS50-E2-V1

Features

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

Accessories

BF 18

Mounting flange, 18 mm

V1-G

Female connector, M12, 4-pin, field attachable

V1-WFemale 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

Switching element function		PNP	NO
Rated operating distance	s _n	15 mm	
Installation		non-flush	
Output polarity		switched hi	gh
Assured operating distance	sa	0 12.15 r	nm
Reduction factor r _{Al}		1	
Reduction factor r _{Cu}		1	
Reduction factor r ₃₀₄		1	
Reduction factor r _{St37}		1	

 Nominal ratings

 Operating voltage
 U_B
 10 ... 30 V DC

 Switching frequency
 f
 0 ... 800 Hz

 Hysteresis
 H
 typ. 5 %

Reverse polarity protection reverse polarity protected Short-circuit protection pulsing Voltage drop $U_{rl} \le 2 V$

Functional safety related parameters

 $\begin{array}{ll} \text{MTTF}_d & \text{1393 a} \\ \text{Mission Time } (\text{T}_M) & \text{20 a} \\ \text{Diagnostic Coverage } (\text{DC}) & \text{0 } \% \end{array}$

 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

Technical Data
General 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

IEC 60947-5-2:2007 IEC 60947-5-2 AMD 1:2012

Approvals and certificates

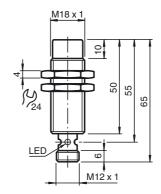
 $\begin{array}{ccc} \text{Protection class} & & \text{II} \\ \text{Rated insulation voltage} & \text{U}_{i} & \text{60 V} \\ \text{Rated impulse withstand voltage} & \text{U}_{imp} & \text{800 V} \\ \end{array}$

UL approval CULus Listed, General Purpose Class 2 power source

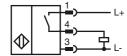
CSA approval cCSAus Listed, General Purpose Class 2 power source

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)