









#### **Model Number**

NRN15-18GM50-E2-C-V1

### **Features**

- Reduction factor = 1
- · Magnetic field resistant
- · Weld Immune

#### **Accessories**

BF 18

Mounting flange, 18 mm

V1-G

Female connector, M12, 4-pin, field attachable

V1-W

Female connector, M12, 4-pin, field attachable

V1-G-OR2M-POC

Female cordset, M12, 4-pin, TPE cable, welding-bead resistant

### **Technical Data**

General specifications
Switching element function

Nominal ratings

Operating voltage U<sub>B</sub> 10 ... 30 V DC
Switching frequency f 0 ... 500 Hz

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

Switching state indicator Multihole-LED, yellow Functional safety related parameters

MTTF<sub>d</sub> 1393 a
Mission Time (T<sub>M</sub>) 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 Brass, PTFE coated
Sensing face PPS

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

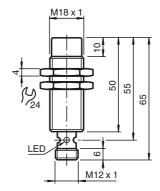
 $\begin{array}{ccc} \text{Protection class} & & \text{II} \\ \text{Rated insulation voltage} & \text{U}_{i} & \text{60 V} \\ \text{Rated impulse withstand voltage} & \text{U}_{imp} & \text{800 V} \\ \end{array}$ 

UL approval cULus Listed, General Purpose Class 2 power source

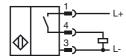
CSA approval cCSAus Listed, General Purpose Class 2 power source

CCC approval 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)