

NJ4-12GM40-E2-V1

#### **Features**

· 4 mm non-flush

#### **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

#### **Technical Data**

#### General specifications Switching element function

Rated operating distance	s <sub>n</sub>	4 mm	
Installation		non-flush	
Output polarity		DC	
Assured operating distance	sa	0 3.24 mr	n
Actual operating distance	s <sub>r</sub>	3.6 4.4 m	m typ.
Reduction factor rAI		0.37	
Reduction factor rou		0.36	

PNP

0.74

. ≤3 V

1.2 ... 2.5 V

NO

Reduction factor r<sub>304</sub> Nominal ratings Operating voltage  $U_B$ 

10 ... 60 V 0 ... 2000 Hz Switching frequency Hysteresis Н 1 ... 10 typ. 3 % Reverse polarity protection reverse polarity protected Short-circuit protection pulsing  $U_{d}$ 

Voltage drop Voltage drop at IL

Voltage drop I<sub>L</sub> = 100 mA, switching element on U<sub>d</sub> Operating current

0 ... 200 mA ≤ 0.5 mA Off-state current No-load supply current ≤ 9 mA  $I_0$ Time delay before availability ≤ 20 ms LED, yellow Switching state indicator

Functional safety related parameters

MTTF<sub>d</sub>
Mission Time (T<sub>M</sub>)
Diagnostic Coverage (DC) 750 a 20 a 0 %

Ambient conditions

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

**Mechanical specifications** 

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

Sensing face Degree of protection

General information IP67

Scope of delivery 2 self locking nuts in scope of delivery

### Compliance with standards and directives

Standard conformity

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

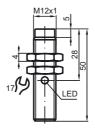
Approvals and certificates

TR CU 020/2011 EAC conformity

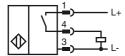
cULus Listed, General Purpose UL approval CSA approval cCSAus Listed, General Purpose

Certified by China Compulsory Certification (CCC) CCC approval

## **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)

