









## **Model Number**

NBN4-12GM60-A2-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		PNP	NO/NC			
	Rated operating distance	s <sub>n</sub>	4 mm				
	Installation		non-flush				
	Output polarity		DC				
	Assured operating distance	sa	0 3.24 mm				
	Reduction factor r <sub>Al</sub>		0.45				
	Reduction factor r <sub>Cu</sub>		0.4				
	Reduction factor r <sub>304</sub>		0.75				
N	Nominal ratings						
	Operating valtage	11	10 20 1/				

 $\begin{array}{cccc} \text{Operating voltage} & \text{U}_{\text{B}} & \text{10} \dots \text{30 V} \\ \text{Switching frequency} & \text{f} & \text{0} \dots \text{1200 Hz} \\ \text{Hysteresis} & \text{H} & \text{typ.} \ 5\% \\ \end{array}$ 

Reverse polarity protection reverse polarity protected Short-circuit protection pulsing

Off-state current  $I_r$  0 ... 0.5 mA typ. 0.1  $\mu$ A at 25 °C No-load supply current  $I_0$   $\leq$  15 mA Switching state indicator LED, yellow

Functional safety related parameters

 $\begin{array}{ll} \text{MTTF}_d & 3220 \text{ a} \\ \text{Mission Time } (T_M) & 20 \text{ a} \\ \text{Diagnostic Coverage (DC)} & 0 \% \end{array}$ 

Ambient conditions

Ambient temperature  $-25 \dots 70 \,^{\circ}\text{C} \, (-13 \dots 158 \,^{\circ}\text{F})$ 

**Mechanical specifications** 

Connection type Connector M12 x 1 , 4-pin
Housing material brass, nickel-plated
Sensing face PBT
Degree of protection IP67

Degree of protection

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 IEC 60947-5-2:2007

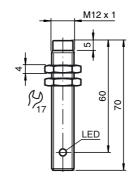
Approvals and certificates

EAC conformity TR CU 020/2011

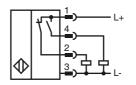
UL approval cULus Listed, General Purpose
CSA approval cCSAus Listed, General Purpose

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)