





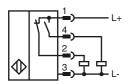
### **Model Number**

NBN8-18GM60-A2-V1

### **Features**

· 8 mm not embeddable

## Connection



# **Pinout**



Wire colors in accordance with EN 60947-5-2

BN	(brown
WH	(white)
BU	(blue)
BK	(black)
	WH BU

# **Accessories**

**BF 18** 

Mounting flange, 18 mm

4-pin, M12 female field-attachable connector V1-W

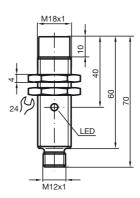
4-pin, M12 female field-attachable connector

V1-G-2M-PUR Cable socket, M12, 4-pin, PUR cable

V1-W-2M-PUR

Cable socket, M12, 4-pin, PUR cable

## **Dimensions**



# **Technical Data**

General specifications		
Switching element function		PNP NO/NC
Rated operating distance	s <sub>n</sub>	8 mm
Installation		not embeddable
Output polarity		DC
Assured operating distance	sa	0 6.48 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
Nominal ratings		
Operating voltage	$U_{R}$	10 30 V

Switching frequency 0 ... 700 Hz Hysteresis Reverse polarity protected typ. 5% reverse polarity protected Short-circuit protection pulsing

Voltage drop ≤ 3 V 0 ... 200 mA 0 ... 0.5 mA typ. 0.1 μA at 25 °C Operating current Off-state current

No-load supply current ≤ 20 mA Indication of the switching state LED, yellow

Functional safety related parameters 1140 a  $MTTF_d$ 20 a

Mission Time (T<sub>M</sub>)
Diagnostic Coverage (DC) 0 % **Ambient conditions** 

Ambient temperature Mechanical specifications

Connection type Device connector M12 x 1, 4-pin Housing material brass, nickel-plated PBT

Sensing face IP67 Protection degree

Compliance with standards and directives

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

Approvals and certificates

UL approval cULus Listed, General Purpose cCSAus Listed, General Purpose CSA approval CCC approval Products with a maximum operating voltage of  $\leq 36 \text{ V}$  do not bear a CCC marking because they do not require approval.

-25 ... 70 °C (-13 ... 158 °F)

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