







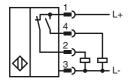
Model Number

NBN8-12GM50-A2-V1

Features

- . 8 mm not embeddable
- Increased operating distance

Connection



Pinout



Wire colors in accordance with EN 60947-5-2

1	BN	(brown)
2	WH	(white)
3	BU	(blue)
4	BK	(black)

Accessories

Mounting flange, 12 mm

V1-G

4-pin, M12 female field-attachable connector

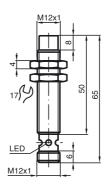
V1-W

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

General specifications			
Switching element function		PNP	NO/NC
Rated operating distance	s _n	8 mm	
Installation		not embe	ddable
Output polarity		DC	
Assured operating distance	sa	0 6.48	mm
Reduction factor r _{Al}		0.39	
Reduction factor r _{Cu}		0.35	
Reduction factor r ₃₀₃		0.7	
Nominal ratings			
Operating voltage	U _B	10 30 V	V
Cwitching froguency	f	0 1500	. U -

Switching frequency 0 ... 1500 Hz typ. 5% Hysteresis Reverse polarity protected reverse polarity protected

pulsing ≤ 3 V Short-circuit protection Voltage drop 0 ... 200 mA 0 ... 0.5 mA typ. 0.1 μA at 25 °C Operating current

Off-state current Indication of the switching state Multihole-LED, yellow

Functional safety related parameters MTTF_d
Mission Time (T_M) 1560 a 20 a 0 % Diagnostic Coverage (DC)

Ambient conditions Ambient temperature -25 ... 70 °C (-13 ... 158 °F)

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

Sensing face Protection degree IP67

Scope of delivery 2 self locking nuts in scope of delivery Compliance with standards and directives

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

Approvals and certificates

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General information

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

Products with a maximum operating voltage of ≤36 V do not bear a CCC marking because they do not require approval. CCC approval