







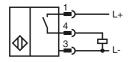
Model Number

NBN8-12GM50-E2-V1

Features

- 8 mm not embeddable
- Increased operating distance
- **Extended temperature range**

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-W

4-pin, M12 female field-attachable connector

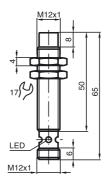
V1-G-2M-PUR

Cable socket, M12, 4-pin, PUR cable

V1-W-2M-PUR

Cable socket, M12, 4-pin, PUR cable

Dimensions



Technical Data

General spec	cifications
--------------	-------------

General specifications		
Switching element function		PNP NO
Rated operating distance	s _n	8 mm
Installation		not embeddable
Output polarity		DC
Assured operating distance	s _a	0 6.48 mm (-25 70 °C (-13 158 °F)) 0 6.08 mm (-4025 °C (-4013 °F))
Reduction factor r _{Al}		0.39
Reduction factor r _{Cu}		0.3
Reduction factor r ₃₀₃		0.7
Reduction factor r _{Brass}		0.45
Naminal ratings		

Nominal ratings

Operating voltage	U_B	10 30 V
Switching frequency	f	0 1500 Hz
Hysteresis	Н	typ. 5%
Reverse polarity protected		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	U _d	≤ 3 V
Operating current	IL.	0 200 mA
No-load supply current	I ₀	≤ 16 mA
Indication of the switching state		Multihole-LED, yellow

Functional safety related parameters

MTTF _d	1560 a
Mission Time (T _M)	20 a
Diagnostic Coverage (DC)	0 %

Ambient conditions

Ambient temperature	-40 70 °C (-40 158 °

Mechanical specifications

Connection type	Device connector M12 x 1, 4-pin
Housing material	brass, nickel-plated
Sensing face	PBT
Protection degree	IP67

Protection degree General information

Standard conformity

Scope of delivery	2 self locking nuts in scope of delivery

Compliance with standards and directives

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

Approvals and certificates

UL approvai	culus Listed, General Purpose
CSA approval	cCSAus Listed, General Purpose
CCC approval	Products with a maximum operating voltage of ≤ 36 V do not bear a CCC marking because they do not require approval.