







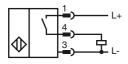
Model Number

NBB2-12GM50-E2-V1

Features

- 2 mm flush
- 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

EXG-12

Quick mounting bracket with dead stop

V1-G

4-pin, M12 female field-attachable connector

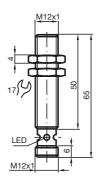
V1-W

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			
	Switching element function		PNP NO
	Rated operating distance	s _n	2 mm
	Installation		flush
	Output polarity		DC
	Assured operating distance	s _a	0 1.62 mm (-25 70 °C (-13 158 °F)) 0 1.52 mm (-4025 °C (-4013 °F))
	Reduction factor r _{Al}		0.3
	Reduction factor r _{Cu}		0.2
	Reduction factor r ₃₀₄		0.7
	Maminal ratings		

U_B Operating voltage Switching frequency Reverse polarity protection Short-circuit protection Voltage drop Operating current Off-state current No-load supply current

0 ... 1500 Hz reverse polarity protected pulsing . ≤ 3 V

2 self locking nuts in scope of delivery

CCC marking because they do not require approval.

0 ... 200 mA 0 ... 0.5 mA typ. 0.1 μ A at 25 °C ≤ 17 mA Indication of the switching state Multihole-LED, yellow Functional safety related parameters

MTTF_d
Mission Time (T_M)
Diagnostic Coverage (DC) 1060 a 0 %

Ambient conditions -40 ... 70 °C (-40 ... 158 °F) Ambient temperature

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

brass, nickel-plated PBT Sensing face Protection degree General information

Scope of delivery 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 CSA approval cCSAus Listed, General Purpose CCC approval Products with a maximum operating voltage of ≤36 V do not bear a

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