







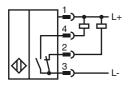
Model Number

NBN12-18GM50-A0-V1

Features

12 mm not embeddable

Connection



Pinout



Wire colors in accordance with EN 60947-5-2

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

Accessories

BF 18

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2011-07-14

Date of issue:

Release date: 2011-07-14 12:08

Mounting flange, 18 mm

4-pin, M12 female field-attachable connector

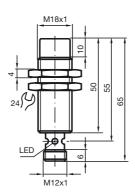
4-pin, M12 female field-attachable connector V1-G-2M-PUR

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		NPN NO/NC
Rated operating distance	s _n	12 mm
Installation		not embeddable
Output polarity		DC
Assured operating distance	sa	0 9.72 mm
Reduction factor r _{Al}		0.45
Reduction factor r _{Cu}		0.4
Reduction factor r ₃₀₃		0.7
Nominal ratings		

U_B Operating voltage 10 ... 30 V Switching frequency 0 ... 1000 Hz Hysteresis Reverse polarity protected Н typ. 5% reverse polarity protected

Short-circuit protection pulsing Voltage drop U_d ≤ 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 Multihole-LED, yellow

Functional safety related parameters

1500 a $MTTF_d$ Mission Time (T_M)
Diagnostic Coverage (DC) 20 a 0 %

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 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.

V1-G

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