







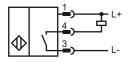
Model Number

NBN12-18GM50-E0-V1

Features

- **Basic series**
- 12 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

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Release date:

4-pin, M12 female field-attachable connector

BF 18

Mounting flange, 18 mm

4-pin, M12 female field-attachable connector

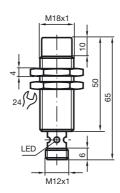
V1-G-2M-PUR

Cable socket, M12, 4-pin, PUR cable

V1-W-2M-PUR

Cable socket, M12, 4-pin, PUR cable

Dimensions



Technical Data

General s	pecifications
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delierai specifications					
Switching element function		NPN	NO		
Rated operating distance	s _n	12 mm			
Installation		not embed	dable		
Output polarity		DC			
Assured operating distance	sa	0 9.72 m	ım		
Reduction factor r _{Al}		0.5			
Reduction factor r _{Cu}		0.4			
Reduction factor r ₃₀₃		0.7			
Nominal ratings					

Operating voltage Switching frequency 10 ... 30 V U_B 0 ... 200 Hz typ. 5% Hysteresis Reverse polarity protected reverse polarity protected

pulsing ≤ 3 V 0 ... 200 mA ≤ 10 mA Short-circuit protection Voltage drop U_{d} Operating current No-load supply current Multihole-LED, yellow Indication of the switching state

Functional safety related parameters

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

Ambient conditions

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

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

Sensing face Protection degree IP67

Compliance with standards and directives

Standard conformity Standards EN 60947-5-2:2007 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 CCC marking because they do not require approval.

PEPPERL+FUCHS