









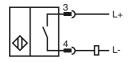
Model Number

NBB5-18GM40-Z0-V1

Features

- 5 mm flush
- Extended temperature range
- 2-wire DC

Connection



Pinout



Wire colors in accordance with EN 60947-5-2

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

Accessories

V1-G

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Release date:

4-pin, M12 female field-attachable connector

V1-W 4-pin. M

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

Cable socket, M12, 4-pin, PUR cable

V1-W-2M-PUR

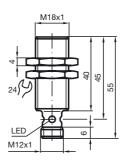
Cable socket, M12, 4-pin, PUR cable **BF 18**

Mounting flange, 18 mm

EXG-18

Quick mounting bracket with dead stop

Dimensions



Technical Data

General specifications		
Switching element function		DC NO
Rated operating distance	s _n	5 mm
Installation		flush
Output polarity		DC
Assured operating distance	s _a	0 4.05 mm (-25 70 °C (-13 158 °F)) 0 3.8 mm (-4025 °C (-4013 °F))
Reduction factor r _{Al}		0.34
Reduction factor r _{Cu}		0.31
Reduction factor r ₃₀₄		0.72

Nominal ratings Operating voltage U_B 5 ... 60 V 0 ... 500 Hz Switching frequency . Н 1 ... 10 typ. 5 % Hysteresis Reverse polarity protected tolerant Short-circuit protection pulsing ≤ 5 V 2 ... 100 mA Voltage drop Operating current Lowest operating current 2 mA 0 ... 0.5 mA typ. Multihole-LED, yellow Off-state current Indication of the switching state

Functional safety related parameters

 $\begin{array}{c} \text{MTTF}_d & 1870 \ a \\ \text{Mission Time } (T_M) & 20 \ a \\ \text{Diagnostic Coverage (DC)} & 0 \ \% \end{array}$

Ambient conditions

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

Mechanical specifications

Connection type Device connector M12 x 1 , 4-pin
Housing material brass, nickel-plated
Sensing face PBT
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 CSA approval cCSAus Listed, General Purpose CCS approval cCSAus Listed, General Purpose CCC approval Certified by China Compulsory Certification (CCC)