









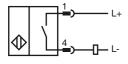
Model Number

NBB2-12GM40-Z3-V1

Features

- 2 mm flush
- 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

Mounting flange, 12 mm

V1-G

4-pin, M12 female field-attachable connector

V1-W

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

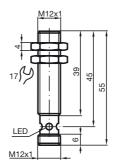
Cable socket, M12, 4-pin, PUR cable

V1-W-2M-PUR

Cable socket, M12, 4-pin, PUR cable EXG-12

Quick mounting bracket with dead stop

Dimensions



Technical Data

General specifications

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Switching element function		DC	NO	
Rated operating distance	s _n	2 mm		
Installation		flush		
Output polarity		DC		
Assured operating distance	sa	0 1.62 mi	n	
Reduction factor r _{Al}		0.18		
Reduction factor r _{Cu}		0.12		
Reduction factor r ₃₀₄		0.67		
Nominal ratings				
Operating voltage	U _B	5 60 V		
Switching frequency	f	0 1000 H	z	
Hyetarasis	Н	1 10 tvn	5 %	

1 ... 10 typ. 5 % tolerant Reverse polarity protected pulsing ≤5 V Short-circuit protection Voltage drop Operating current 2 ... 100 mA 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

MTTF_d
Mission Time (T_M) 2250 a Diagnostic Coverage (DC)

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 Sensing face PBT Protection degree IP67

Compliance with standards and directives

Standard conformity

Standards FN 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 Certified by China Compulsory Certification (CCC)

Release date: