







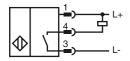
Model Number

NBB8-18GM50-E0-V1

Features

- 8 mm 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

BF 18

Date of issue: 2012-02-03 085500_eng.xml

Release date:

Mounting flange, 18 mm

EXG-18

Quick mounting bracket with dead stop V1-G

4-pin, M12 female field-attachable connector

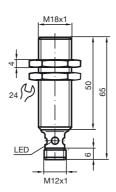
V1-W

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

ш			
	General specifications		
	Switching element function		NPN NO
ľ	Rated operating distance	s _n	8 mm
	Installation		embeddable
ľ	Output polarity		DC
	Assured operating distance	sa	0 6.48 mm
	Reduction factor r _{Al}		0.45
	Reduction factor r _{Cu}		0.4
	Reduction factor r ₃₀₄		0.7
	Nominal ratings		
ľ	Operating voltage	U _B	10 30 V
	Switching frequency	f	0 500 Hz

typ. 5% reverse polarity protected Hysteresis Reverse polarity protected Short-circuit protection pulsing

Voltage drop ≤ 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 ≤ 15 mA Multihole-LED, yellow

Indication of the switching state Functional safety related parameters

1920 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

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CCC marking because they do not require approval.