







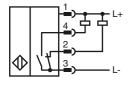
Model Number

NBB5-18GM60-A0-V1

Features

• 5 mm embeddable

Connection



Pinout



Wire colors in accordance with EN 60947-5-2

BN	(brown
WH	(white)
BU	(blue)
BK	(black)
	WH BU

Accessories

V1-G

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Date of issue: 2012-02-03

2011-07-14 09:16

Release date:

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

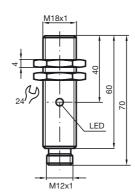
Cable socket, M12, 4-pin, PUR cable

BF 18 Mounting flange, 18 mm

EXG-18

Quick mounting bracket with dead stop

Dimensions



Technical Data

General specifications		
Switching element function		NPN NO/NC
Rated operating distance	s _n	5 mm
Installation		embeddable
Output polarity		DC
Assured operating distance	sa	0 4.05 mm
Reduction factor r _{Al}		0.25
Reduction factor r _{Cu}		0.15
Reduction factor r ₃₀₄		0.66
Nominal ratings		
0	1.1	10 00 1/

Operating voltage 10 ... 30 V UB Switching frequency 0 ... 800 Hz Hysteresis Н typ. 5% Reverse polarity protected reverse polarity protected

Short-circuit protection pulsing Voltage drop U_d ≤ 3 V 0 ... 200 mA 0 ... 0.5 mA typ. Operating current Off-state current No-load supply current ≤ 20 mA Indication of the switching state LED, yellow

Functional safety related parameters

1050 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.