

NBB8-18GM60-A2-V1

Features

- 8 mm flush
- · Increased operating distance

Accessories

BF 18

Mounting flange, 18 mm

EXG-18

Quick mounting bracket with dead stop

V1-G

Female connector, M12, 4-pin, field attachable

V1-W

Female connector, M12, 4-pin, field attachable

V1-G-2M-PUR

Female cordset, M12, 4-pin, PUR cable

V1-W-2M-PUR

Female cordset, M12, 4-pin, PUR cable

Technical Data

General specifications Switching function

complementary Output type Rated operating distance PNP 8 mm Installation flush

Output polarity DC 0 ... 6.48 mm (-25 ... 70 °C (-13 ... 158 °F)) 0 ... 6.08 mm (-40 ... -25 °C (-40 ... -13 °F)) Assured operating distance

Reduction factor rAI 0.45 Reduction factor r_{Cu} 0.4 Reduction factor r₃₀₄ 0.7 4-wire

Output type
Nominal ratings

Operating voltage Switching frequency 10 ... 30 V 0 ... 500 Hz UB Hysteresis typ. 5%

Reverse polarity protection reverse polarity protected Short-circuit protection pulsing

Voltage drop ≤3 V Operating current 0 ... 200 mA

0 ... 0.5 mA typ. 0.1 μ A at 25 °C \leq 25 mA Off-state current No-load supply current Time delay before availability ≤ 20 ms

Switching state indicator Functional safety related parameters

MTTF_d Mission Time (T_M) 1110 a 20 a Diagnostic Coverage (DC) 0%

Ambient conditions

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

Mechanical specifications

Connection type Connector M12 x 1, 4-pin Housing material brass, nickel-plated PBT Sensing face

Degree of protection IP67

Compliance with standards and directives

Standard conformity

EN 60947-5-2:2007 Standards IEC 60947-5-2:2007

Approvals and certificates

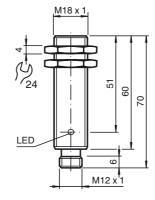
EAC conformity TR CU 020/2011

cULus Listed, General Purpose UL approval CSA approval cCSAus Listed, General Purpose

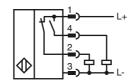
CCC approval CCC approval / marking not required for products rated ≤36 V

LED, yellow

Dimensions



Electrical Connection



Pinout



Wire colors in accordance with EN 60947-5-2

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