







Model Number

NBB10-30GM50-E0-V1

Features

- Basic series
- 10 mm flush

Accessories

BF 30

Mounting flange, 30 mm

EXG-30

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

Switching function

General specifications

Output type		NPN
Rated operating distance	s _n	10 mm
Installation		flush
Output polarity		DC
Assured operating distance	sa	0 8.1 mm
Reduction factor r _{Al}		0.3
Reduction factor r _{Cu}		0.3
Reduction factor r ₃₀₄		0.8
Output type		3-wire

Output type **Nominal ratings**

10 ... 30 V Operating voltage U_B 0 ... 200 Hz Switching frequency H typ. 5% Hysteresis

Reverse polarity protection reverse polarity protected

Short-circuit protection pulsing ≤3 V Voltage drop U_d Operating current 0 ... 200 mA

Off-state current $0 \dots 0.5$ mA typ. 0.1 μA at 25 $^{\circ} C$ ≤ 20 mA

No-load supply current Switching state indicator Multihole-LED, yellow

Functional safety related parameters MTTF_d 1374 a Mission Time (T_M)
Diagnostic Coverage (DC) 20 a

Ambient conditions

Ambient temperature -25 ... 70 °C (-13 ... 158 °F)

Mechanical specifications

Connection type Connector plug M12 x 1 , 4-pin brass, nickel-plated Housing material

Sensing face PBT IP67 Degree of protection

Compliance with standards and directives

Standard conformity

Standards EN 60947-5-2:2007 EN 60947-5-2/A1:2012 IEC 60947-5-2:2007

Approvals and certificates

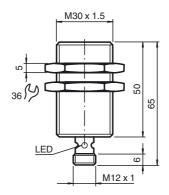
UL approval cULus Listed, General Purpose CSA approval cCSAus Listed, General Purpose

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

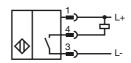
IEC 60947-5-2 AMD 1:2012

Normally open (NO)

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)