









Model Number

NBN4-12GM50-E2-V1

Features

4 mm non-flush

Accessories

BF 12

Mounting flange, 12 mm

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 specification	ons
Switching element	function
Rated operating dis	stance

 s_n non-flush Installation Output polarity DC Assured operating distance Reduction factor r_{Al} Reduction factor r_{Cu} 0 ... 3.24 mm 0.5 0.4 Reduction factor r₃₀₄ 0.8

PNP

4 mm

NO

Hysteresis typ. 5% Nominal ratings Operating voltage 10 ... 30 V 0 ... 1200 Hz U_B

Switching frequency Reverse polarity protection reverse polarity protected Short-circuit protection pulsing Voltage drop U_d ≤ 3 V ≤ 0.01 mm Repeat accuracy

Operating current 0 ... 200 mA Off-state current 0 ... 0.5 mA typ. 0.1 μ A at 25 °C No-load supply current Time delay before availability \leq 17 mA \leq 8 ms

Multihole-LED, yellow Switching state indicator

Functional safety related parameters MTTF_d Mission Time (T_M) 990 a 20 a Diagnostic Coverage (DC) 0 %

Ambient conditions

-25 ... 70 °C (-13 ... 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 **General information**

Scope of delivery 2 self locking nuts in scope of delivery Compliance with standards and directives

Standard conformity

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

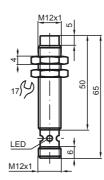
Approvals and certificates

EAC conformity TR CU 020/2011

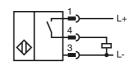
UL approval cULus Listed, General Purpose cCSAus Listed, General Purpose CSA approval

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

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)