









Model Number

NBB2-12GM50-E2-V1

Features

- 2 mm flush
- · Extended temperature range

Accessories

BF 12

Mounting flange, 12 mm

EXG-12

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

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General specifications			
Switching element function		PNP NO	
Rated operating distance	Sn	2 mm	
Installation		flush	
Output polarity		DC	
Assured operating distance	s _a	0 1.62 mm (-25 70 °C (-13 158 °F)) 0 1.52 mm (-4025 °C (-4013 °F))	
Reduction factor r _{Al}		0.3	
Reduction factor r _{Cu}		0.2	
Reduction factor r ₃₀₄		0.7	
Nominal ratings			
Operating voltage	UB	10 30 V	
Switching frequency	f	0 1500 Hz	
Reverse polarity protection		reverse polarity protected	
Short-circuit protection		pulsing	
Voltage drop	U_d	≤3 V	
Operating current	ΙL	0 200 mA	
Off-state current	l _r	$0 \dots 0.5$ mA typ. $0.1~\mu A$ at $25~^{\circ} C$	
No-load supply current	I ₀	≤ 17 mA	
Switching state indicator		Multihole-LED, yellow	
Functional safety related parameter	ers		
MTTF _d		1060 a	
Mission Time (T _M)		20 a	
Diagnostic Coverage (DC)		0 %	
Ambient conditions			
Ambient temperature		-40 70 °C (-40 158 °F)	
Mechanical specifications			
Connection type		Connector M12 x 1 , 4-pin	
Housing material		brass, nickel-plated	
Sensing face		PBT	
Degree of protection		IP67	
General information			
Scope of delivery		2 self locking nuts in scope of delivery	
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Compliance with standards and directives Standard conformity

Toobnical Data

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

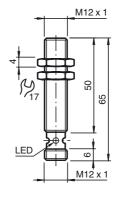
Approvals and certificates

EAC conformity TR CU 020/2011

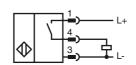
cULus Listed, General Purpose UL approval cCSAus Listed, General Purpose CSA approval

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

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)