







Model Number

NCN12-18GM50-Z4-V1

Features

- 12 mm non-flush
- 2-wire DC
- · Increased operating distance

Accessories

BF 18

Mounting flange, 18 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 specifications

Switching element function		DC	NO		
Rated operating distance	s _n	12 mm			
Installation		non-flush			
Output polarity		DC			
Assured operating distance	sa	0 9.1 mm			
Reduction factor r _{Al}		0.5			
Reduction factor r _{Cu}		0.45			
Reduction factor r ₃₀₄		0.75			
Reduction factor r _{Brass}		0.55			
Nominal ratings					

Operating voltage	ΘВ	0.0 00 V
Switching frequency	f	0 1000 Hz
Hysteresis	Н	typ. 3 %
Reverse polarity protection		reverse polarity-conductive
Short-circuit protection		pulsing
Voltage drop	U_d	≤ 3.5 V
Temperature drift		± 15%

Operating current 2 ... 100 mA Off-state current Switching state indicator typ. 0.8 mA LED, yellow Pre-fault indicator LED, red Stability control-switch point 0,8 s_r ... 0,9 s_r

Ambient temperature Storage temperature

Ambient conditions

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

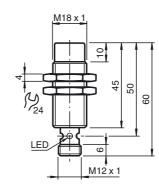
UL approval cULus Listed, General Purpose CSA approval cCSAus Listed, General Purpose

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

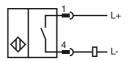
-25 ... 70 °C (-13 ... 158 °F)

-25 ... 85 °C (-13 ... 185 °F)

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)

Installation Hint

Correlation between output signal/LED-function and stable operating distance $s_{\rm s}/$ effective operating distance $s_{\rm r}$: ($s_{\rm s}$ typ. 80 % of $s_{\rm r}$)

