







### **Model Number**

NCB8-18GM50-Z4-V1

#### **Features**

- 8 mm flush
- Increased operating distance
- 2-wire DC

### **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

**EXG-18** 

Quick mounting bracket with dead stop

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General specifications				
Switching element function		DC	NO	
Rated operating distance	s <sub>n</sub>	8 mm		
Installation		flush		
Output polarity		DC		
Assured operating distance	sa		n ( -25 70 °C (-13 158 °F) ) n ( -4025 °C (-4013 °F) )	
Dadustian fastanı			1(-4025 0(-4015 1))	
Reduction factor r <sub>Al</sub>		0.4		
Reduction factor r <sub>Cu</sub>		0.4		
Reduction factor r <sub>304</sub>		0.7		
Reduction factor r <sub>Brass</sub>		0.5		
Nominal ratings				

Operating voltage U<sub>B</sub> 3.5 ... 30 V 0 ... 1000 Hz Switching frequency Reverse polarity protection reverse polarity-conductive Short-circuit protection Voltage drop pulsing ≤ 3.5 V  $U_d$ Temperature drift ± 15%

Operating current 2 ... 100 mA ΙL Off-state current Switching state indicator typ. 0.8 mA LED, yellow Pre-fault indicator LED, red Stability control-switch point  $0.8 \, s_r \dots 0.9 \, s_r$ 

Functional safety related parameters

1370 a Mission Time (T<sub>M</sub>) 20 a 0 % Diagnostic Coverage (DC)

**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

Compliance with standards and directives

Standard conformity

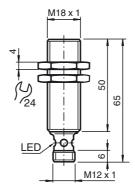
EN 60947-5-2:2007 Standards IEC 60947-5-2:2007

Approvals and certificates

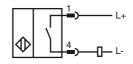
cULus Listed, General Purpose **UL** approval cCSAus Listed, General Purpose CSA approval

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

# **Dimensions**



### **Electrical Connection**



## **Pinout**

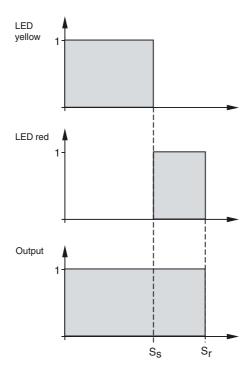


Wire colors in accordance with EN 60947-5-2

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

### **Installation Hint**

Correlation between output signal/LED-function and stable operating distance  $s_s$ /effective operating distance  $s_r$ : ( $s_s$  typ. 80 % of  $s_r$ )



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