Model Number

NCB8-18GM50-Z4

Features

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

Accessories

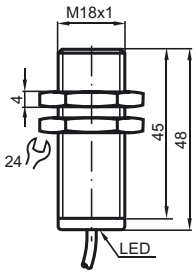
BF 18
Mounting flange, 18 mm

EXG-18
Quick mounting bracket with dead stop

Technical Data

General specifications		
Switching function		Normally open (NO)
Output type		Two-wire
Rated operating distance	s_n	8 mm
Installation		flush
Output polarity		DC
Assured operating distance	s_a	0 ... 6.48 mm
Reduction factor r_{Al}		0.4
Reduction factor r_{Cu}		0.4
Reduction factor r_{304}		0.7
Reduction factor r_{Brass}		0.5
Output type		2-wire
Nominal ratings		
Operating voltage	U_B	3.5 ... 30 V
Switching frequency	f	0 ... 1000 Hz
Hysteresis	H	typ. 5%
Reverse polarity protection		reverse polarity-conductive
Short-circuit protection		pulsing
Voltage drop	U_d	≤ 3.5 V
Temperature drift		± 15%
Operating current	I_L	2 ... 100 mA
Off-state current	I_r	typ. 0.8 mA
Switching state indicator		LED, yellow
Pre-fault indicator		LED, red
Stability control-switch point		0,8 s_r ... 0,9 s_r
Functional safety related parameters		
$MTTF_d$		1370 a
Mission Time (T_M)		20 a
Diagnostic Coverage (DC)		0 %
Ambient conditions		
Ambient temperature		-25 ... 70 °C (-13 ... 158 °F)
Storage temperature		-25 ... 85 °C (-13 ... 185 °F)
Mechanical specifications		
Connection type		cable PVC , 2 m
Core cross-section		0.34 mm^2
Housing material		brass, nickel-plated
Sensing face		PBT
Degree of protection		IP67
Compliance with standards and directives		
Standard conformity		
Standards		EN 60947-5-2:2007 EN 60947-5-2/A1:2012 IEC 60947-5-2:2007 IEC 60947-5-2 AMD 1:2012
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

Dimensions



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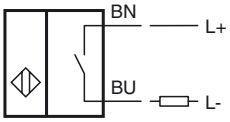
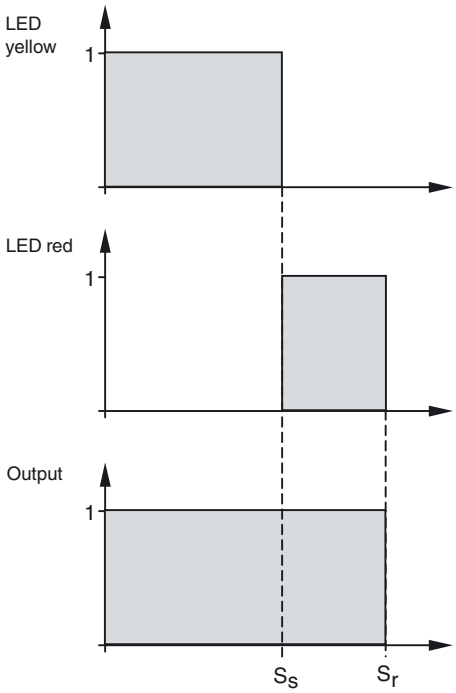
Electrical Connection



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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Refer to "General Notes Relating to Pepperl+Fuchs Product Information".
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