

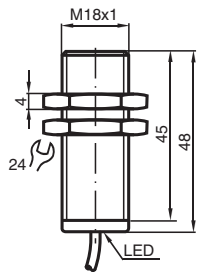
Inductive sensor

NCB8-18GM50-Z4

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



Dimensions



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		$\pm 15\%$
Operating current	I_L	2 ... 100 mA
Off-state current	I_r	typ. 0.8 mA

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

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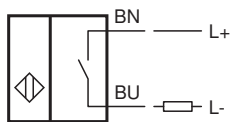
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 **PEPPERL+FUCHS**

Technical Data

Switching state indicator	LED, yellow
Stability alarm 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 %
Compliance with standards and directives	
Standard conformity	
Standards	EN IEC 60947-5-2
Approvals and certificates	
UL approval	cULus Listed, General Purpose
CCC approval	CCC approval / marking not required for products rated ≤36 V
Ambient conditions	
Ambient temperature	-25 ... 70 °C (-13 ... 158 °F)
Storage temperature	-25 ... 85 °C (-13 ... 185 °F)
Mechanical specifications	
Connection type	cable
Housing material	brass, nickel-plated
Sensing face	PBT
Degree of protection	IP67
Cable	
Wire end ferrules	yes
Cable diameter	4.8 mm ± 0.2 mm
Bending radius	> 10 x cable diameter
Material	PVC
Color	grey
Number of cores	2
Core cross section	0.34 mm ²
Length	L 2 m
Dimensions	
Length	48 mm
Diameter	18 mm

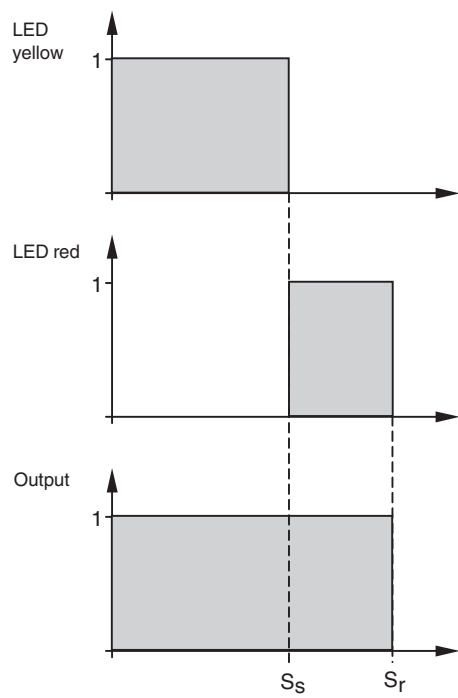
Connection



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Operation

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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