

Inductive sensor

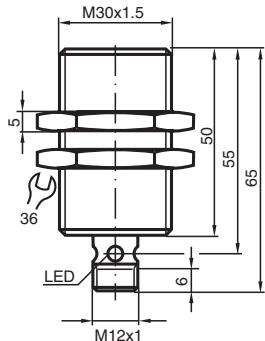
NCB15-30GM50-Z4-V1



- 15 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	15 mm
Installation	flush	
Output polarity	DC	
Assured operating distance	s_a	0 ... 12 mm
Reduction factor r_{AI}	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	500 Hz
Hysteresis	H	typ. 5%
Reverse polarity protection		reverse polarity-conductive

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

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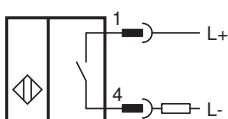
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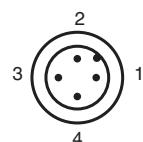
Technical Data

Short-circuit protection	pulsing	
Voltage drop	U_d	$\leq 3.5 \text{ V}$
Temperature drift	$\pm 15\%$	
Operating current	I_L	2 ... 100 mA
Off-state current	I_r	typ. 0.8 mA
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	1390 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 $\leq 36 \text{ V}$	
Ambient conditions		
Ambient temperature	-25 ... 70 °C (-13 ... 158 °F)	
Storage temperature	-25 ... 85 °C (-13 ... 185 °F)	
Mechanical specifications		
Connection type	Connector plug	
Housing material	brass, nickel-plated	
Sensing face	PBT	
Degree of protection	IP67	
Connector		
Threading	M12 x 1	
Number of pins	4	
Mass	137 g	
Dimensions		
Length	48 mm	
Diameter	30 mm	

Connection



Connection Assignment



Connection Assignment

Wire colors in accordance with EN 60947-5-2

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

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)

