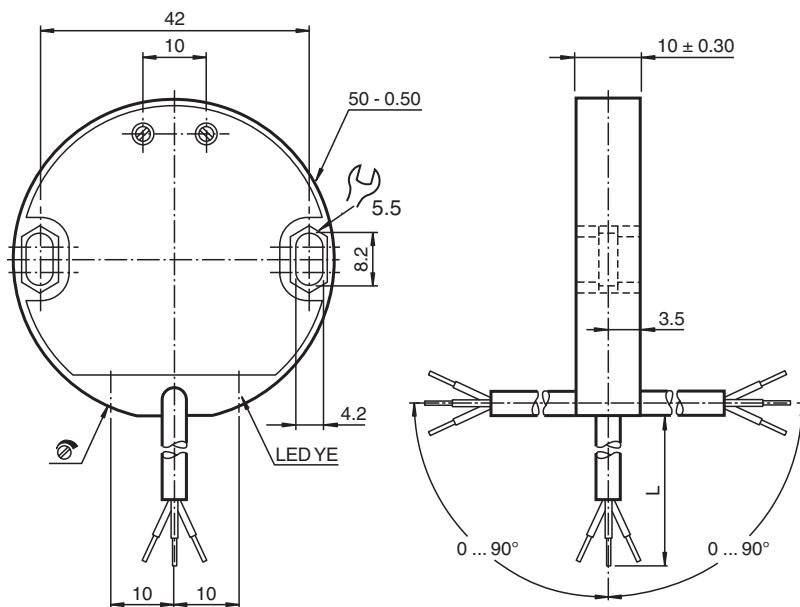


Capacitive sensor

CJ30-50K10-E0123-Y46139



Dimensions



Release date: 2024-05-27 Date of issue: 2024-05-28 Filename: 046139_eng.pdf

Technical Data

General specifications

Switching function	Normally open/closed (NO/NC) switchable	
Output type	PNP/NPN	
Rated operating distance	s_n	30 mm
Installation	flush	
Output polarity	DC	
Assured operating distance	s_a	0 ... 25 mm
Output type	3-wire	

Nominal ratings

Installation conditions

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

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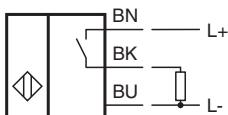
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PEPPERL+FUCHS

Technical Data

B		0 mm
C		90 mm
F		100 mm
Operating voltage	U_B	10 ... 30 V
Switching frequency	f	0 ... 50 Hz
Hysteresis	H	typ. 20 %
Reverse polarity protection		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	U_d	≤ 2.5 V
Operating current	I_L	0 ... 150 mA
Lowest operating current	I_m	0 mA
Off-state current	I_r	0 ... 0.1 mA typ. 0.1 μ A at 25 °C
No-load supply current	I_0	≤ 15 mA
Time delay before availability	t_v	≤ 50 ms
Switching state indicator		Multihole-LED, yellow
Functional safety related parameters		
MTTF _d		554 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
Ambient conditions		
Ambient temperature		-30 ... 60 °C (-22 ... 140 °F)
Mechanical specifications		
Connection type		cable PUR , 2 m
Core cross section		0.25 mm ²
Housing material		POM
Sensing face		POM
Degree of protection		IP67

Connection



Additional Information

The switching state is indicated by LED visible in three directions with the output function break contact / make contact / PNP / NPN freely configurable via rotary switch.

Adjustment:

The adjustment is via the flush mounted adjustment potentiometer.

Change-over:

For the functional coding PNP/NPN and break/make contact there is a rotary switch each at the back of the sensor.

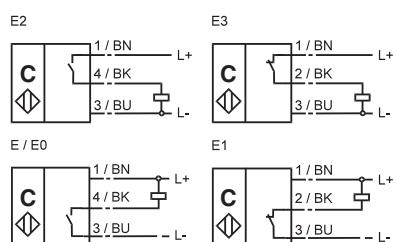
The adjustment is carried out by turning the appropriate switch to the position corresponding to the switching function (ground stop).

Delivery state: E2 (PNP, make contact)

Break/make contact coding:

By turning 270 degree to the left the change-over from PNP to NPN is achieved.

Connection diagrams:



Installation Conditions

