

# Capacitive sensor

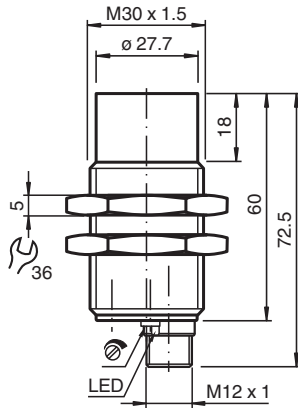
## CCN15-30GS60-A2-V1



- 15 mm non-flush
- Operating distance adjustable via potentiometer
- High EMC resistance
- Stainless steel version
- Complementary outputs
- Operating voltage range 10 V ... 60 V DC



### Dimensions



### Technical Data

#### General specifications

Switching function		complementary
Output type		PNP
Rated operating distance	$s_n$	15 mm
Installation		non-flush
Output polarity		DC
Assured operating distance	$s_a$	0 ... 12.1 mm
Output type		4-wire

#### Nominal ratings

Installation conditions		
A		18 mm
B		10 mm
C		30 mm
F		60 mm
Operating voltage	$U_B$	10 ... 60 V DC
Switching frequency	f	0 ... 10 Hz
Reverse polarity protection		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	$U_d$	$\leq 2.8$ V

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

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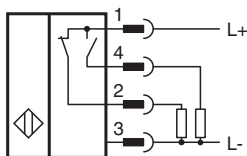
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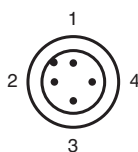
## Technical Data

Operating current	$I_L$	0 ... 200 mA
Off-state current	$I_r$	0 ... 0.5 mA typ. 0.1 $\mu$ A at 25 °C
Off-state current $T_U = 40$ °C, switching element off		$\leq 100$ $\mu$ A
No-load supply current	$I_0$	$\leq 20$ mA
Time delay before availability	$t_v$	$\leq 50$ ms
Switching state indicator		LED, yellow
<b>Functional safety related parameters</b>		
MTTF <sub>d</sub>		750 a
Mission Time ( $T_M$ )		20 a
Diagnostic Coverage (DC)		0 %
<b>Indicators/operating means</b>		
Potentiometer		sensitivity adjustment
<b>Compliance with standards and directives</b>		
Standard conformity		
Standards		EN IEC 60947-5-2
<b>Approvals and certificates</b>		
UL approval		cULus Listed, General Purpose
CCC approval		Certified by China Compulsory Certification (CCC)
<b>Ambient conditions</b>		
Ambient temperature		-25 ... 70 °C (-13 ... 158 °F)
Storage temperature		-40 ... 85 °C (-40 ... 185 °F)
<b>Mechanical specifications</b>		
Connection type		Connector plug
Housing material		Stainless steel 1.4305 / AISI 303
Sensing face		PBT
Degree of protection		IP67
<b>Connector</b>		
Threading		M12 x 1
Number of pins		4
<b>Dimensions</b>		
Length		60 mm
Diameter		30 mm

## Connection



## Connection Assignment

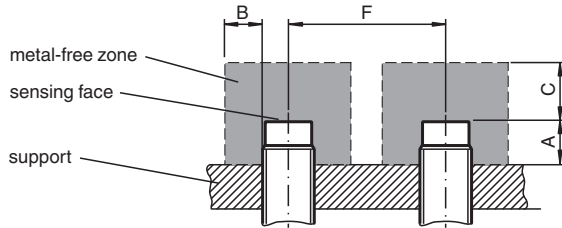


## Connection Assignment

Wire colors in accordance with EN 60947-5-2

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

## Installation Conditions



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