

Capacitive sensor

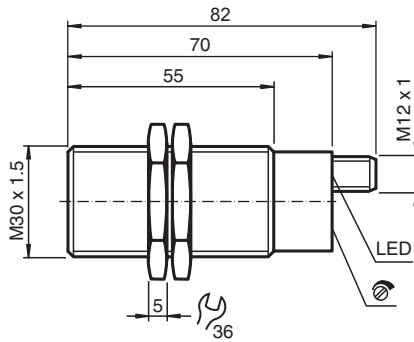
CCB10-30GS55-N1-V1



- 10 mm flush
- The switching distance can be set over a wide range with the potentiometer



Dimensions



Technical Data

General specifications

Switching function	Normally open (NO)	
Output type		NAMUR
Rated operating distance	s_n	10 mm
Installation		flush
Output type	2-wire	

Nominal ratings

Installation conditions		
A		0 mm
B		0 mm
C		20 mm
F		60 mm
Nominal voltage	U_o	8.2 V (R_i approx. 1 k Ω)
Operating voltage	U_B	5 ... 15 V
Switching frequency	f	0 ... 50 Hz
Reverse polarity protection	reverse polarity protected	
Current consumption		
Measuring plate not detected		≤ 1.5 mA
Measuring plate detected		≥ 2.5 mA
Switching state indicator	LED, yellow	

Release date: 2024-09-16 Date of issue: 2024-09-16 Filename: 245597_eng.pdf

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

Pepperl+Fuchs Group
www.pepperl-fuchs.com

USA: +1 330 486 0001
fa-info@us.pepperl-fuchs.com

Germany: +49 621 776 1111
fa-info@de.pepperl-fuchs.com

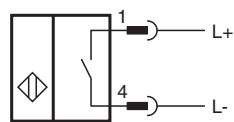
Singapore: +65 6779 9091
fa-info@sg.pepperl-fuchs.com

PEPPERL+FUCHS

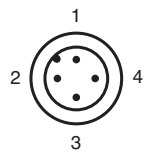
Technical Data

Functional safety related parameters		
MTTF _d		1134 a
Mission Time (T _M)		20 a
Diagnostic Coverage (DC)		0 %
Compliance with standards and directives		
Standard conformity		
NAMUR		EN 60947-5-6:2000 IEC 60947-5-6:1999
Standards		EN IEC 60947-5-2
Approvals and certificates		
ATEX approval		
Equipment protection level Ga		BVS 13 ATEX E 074 X
Equipment protection level Da		BVS 13 ATEX E 074 X
ETL approval		cETLus
Ambient conditions		
Ambient temperature		-20 ... 70 °C (-4 ... 158 °F)
Mechanical specifications		
Connection type		Connector plug M12 x 1 , 4-pin
Housing material		Stainless steel 1.4305 / AISI 303
Sensing face		PTFE
Degree of protection		IP67
Dimensions		
Length		80 mm
Diameter		30 mm
General information		
Use in the hazardous area		see instruction manuals

Connection

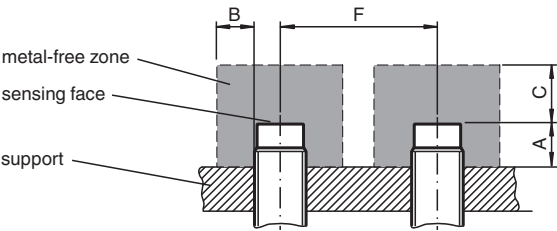


Connection Assignment



Release date: 2024-09-16 Date of issue: 2024-09-16 Filename: 245597_eng.pdf

Installation



Release date: 2024-09-16 Date of issue: 2024-09-16 Filename: 245597_eng.pdf