Technical Data

General specifications

Switching element function		PNP NO/NC
Rated operating distance	s_n	15 mm
Installation		non-flush
Output polarity		DC
Assured operating distance	s_a	0 ... 12.1 mm

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	≤ 2.8 V
Operating current	I_L	0 ... 200 mA
Off-state current	I_r	0 ... 0.5 mA typ. 0.1 µA at 25 °C
Off-state current T_U =40 °C, switching element off		≤ 100 µA
No-load supply current	I_0	≤ 20 mA
Time delay before availability	t_v	≤ 50 ms
Switching state indicator		LED, yellow

Functional safety related parameters

$MTTF_d$	750 a
Mission Time (T_M)	20 a
Diagnostic Coverage (DC)	0 %

Indicators/operating means

Potentiometer	sensitivity adjustment

Ambient conditions

Ambient temperature	-25 ... 70 °C (-13 ... 158 °F)
Storage temperature	-40 ... 85 °C (-40 ... 185 °F)

Mechanical specifications

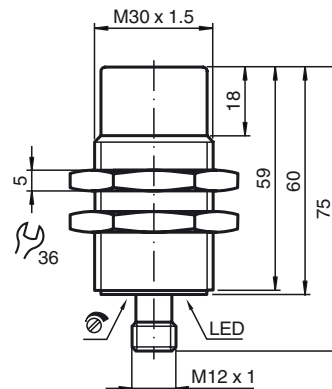|	
Connection type	Connector M12 x 1 , 4-pin
Housing material	Stainless steel 1.4305 / AISI 303
Sensing face	PBT
Degree of protection	IP67

Compliance with standards and directives

Standard conformity	
Standards	EN 60947-5-2:2007
	IEC 60947-5-2:2007

Approvals and certificates

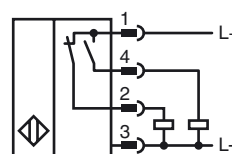|	
UL approval	cULus Listed, General Purpose
CSA approval	cCSAus Listed, General Purpose
CCC approval	Certified by China Compulsory Certification (CCC)

Model Number

CCN15-30GS60-A2-V1

Features

- **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**

Accessories

BF 30
Mounting flange, 30 mm
V1-G
Female connector, M12, 4-pin, field attachable
V1-W
Female connector, M12, 4-pin, field attachable
V1-G-2M-PUR
Female cordset, M12, 4-pin, PUR cable
V1-W-2M-PUR
Female cordset, M12, 4-pin, PUR cable

Dimensions

Electrical Connection

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

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Pinout
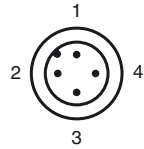
Wire colors in accordance with EN 60947-5-2

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

Installation Conditions

metal-free zone
sensing face
support

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

| Pepperl+Fuchs Group | USA: +1 330 486 0001 | Germany: +49 621 776 4411 | Singapore: +65 6779 9091 |
| www.pepperl-fuchs.com | fa-info@us.pepperl-fuchs.com | fa-info@de.pepperl-fuchs.com | fa-info@sg.pepperl-fuchs.com |

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