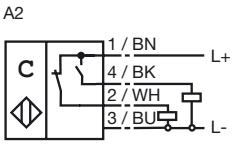
Model Number

CJ10-30GM-A2-3D

Features

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

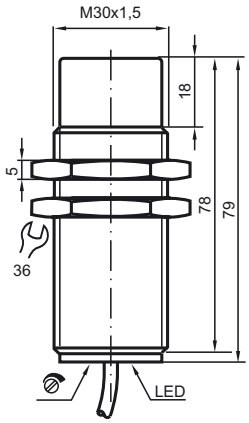
Connection



Accessories

BF 30
Mounting flange, 30 mm

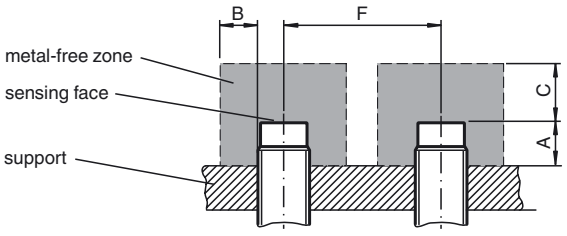
Dimensions



Technical Data

General specifications		
Switching element function		PNP NO/NC
Rated operating distance	s_n	10 mm
Installation		non-flush
Output polarity		DC
Assured operating distance	s_a	0 ... 7.2 mm
Nominal ratings		
Installation conditions		
A		0 mm
B		0 mm
C		30 mm
F		50 mm
Operating voltage	U_B	10 ... 60 V
Switching frequency	f	0 ... 10 Hz
Hysteresis	H	0.1 ... 10 typ. 4 %
Reverse polarity protection		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	U_d	≤ 2.8 V
Operating current	I_L	0 ... 200 mA
Lowest operating current	I_m	0 mA
Off-state current	I_r	0 ... 0.5 mA typ. 0.01 mA
No-load supply current	I_0	≤ 20 mA
Time delay before availability	t_v	≤ 50 ms
Indication of the switching state		LED, yellow
Ambient conditions		
Ambient temperature		-25 ... 70 °C (-13 ... 158 °F)
Storage temperature		-40 ... 85 °C (-40 ... 185 °F)
Mechanical specifications		
Connection type		cable PVC , 2 m
Core cross-section		0.75 mm^2
Housing material		Stainless steel
Sensing face		PBT
Protection degree		IP67
General information		
Use in the hazardous area		see instruction manuals
Category		3D
Compliance with standards and directives		
Standard conformity		
Standards		EN 60947-5-2:2007 IEC 60947-5-2:2007

Installation conditions



Release date: 2012-08-28 15:06 Date of issue: 2012-08-28 131832_eng.xml

ATEX 3D

Instruction	**Manual electrical apparatus for hazardous areas**
Device category 3D	for use in hazardous areas with non-conducting combustible dust
Directive conformity	94/9/EG
Standard conformity	EN 50281-1-1 Protection via housing Use is restricted to the following stated conditions
CE symbol	CE
Ex-identification	Ex II 3D IP67 T 89 X
General	The apparatus has to be operated according to the appropriate data in the data sheet and in this instruction manual. The data stated in the data sheet are restricted by this operating instruction! The special conditions must be adhered to!
Installation, Comissioning	Laws and/or regulations and standards governing the use or intended usage goal must be observed.
Maintenance	No changes can be made to apparatus, which are operated in hazardous areas. Repairs to these apparatus are not possible.

Special conditions

Maximum operating current I_L	The maximum permissible load current must be restricted to the values given in the following list. High load currents and load short-circuits are not permitted.
Maximum operating voltage U_{Bmax}	The maximum permissible operating voltage UBmax must be restricted to the values given in the following list. Tolerances are not permitted.
Maximum heating (Temperature rise)	dependant of the load current I_L and the max. operating voltage $U_{Bmax.}$ Information can be taken from the following list. The maximum surface temperature at maximum ambient temperature is given in the Ex identification of the apparatus.
at U_{Bmax}=60 V, I_L=200 mA	19 K
at U_{Bmax}=60 V, I_L=100 mA	18 K
at U_{Bmax}=60 V, I_L=50 mA	15 K
at U_{Bmax}=30 V, I_L=200 mA	16 K
at U_{Bmax}=30 V, I_L=100 mA	13 K
at U_{Bmax}=30 V, I_L=50 mA	11 K
Protection from mechanical danger	The sensor must not be mechanically damaged.
Electrostatic charging	Sliding contact discharges must be avoided. Electrostatic charges must be avoided on the mechanical housing components. Dangerous electrostatic charges on the mechanical housing components can be avoided by incorporating these in the equipotential bonding.
Protection of the connection cable	The connection cable must be prevented from being subjected to tension and torsional loading.

Release date: 2012-08-28 15:06 Date of issue: 2012-08-28 131832_eng.xml

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