

### **Model Number**

### CJ4-12GK-N-10M

#### **Features**

- Comfort series
- 4 mm non-flush

## Accessories

- BF 12
- Mounting flange, 12 mm

Pepperl+Fuchs Group www.pepperl-fuchs.com

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

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

Germany: +49 621 776 4411 fa-info@de.pepperl-fuchs.com

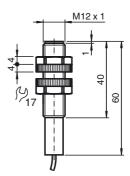
Singapore: +65 6779 9091 fa-info@sg.pepperl-fuchs.com

# CJ4-12GK-N-10M

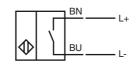
l'echinear Data		
General specifications		
Switching function		Normally open (NO)
Output type		NAMUR
Rated operating distance	s <sub>n</sub>	4 mm
Installation		non-flush
Assured operating distance	Sa	0 2.88 mm
Output type		2-wire
Nominal ratings		
Installation conditions		
А		20 mm
В		80 mm
C		12 mm
F		70 mm
Nominal voltage	U	8 V
Operating voltage	U <sub>B</sub>	7 12 V
Switching frequency	f	01Hz
Current consumption		
Measuring plate not detected		≤1 mA
Measuring plate detected		≥ 2.4 mA
Functional safety related parameter	ers	
MTTF <sub>d</sub>	013	3299 a
Mission Time (T <sub>M</sub> )		20 a
Diagnostic Coverage (DC)		0%
Ambient conditions		0 /8
Ambient temperature		-25 70 °C (-13 158 °F)
Mechanical specifications		
Connection type		cable PVC , 10 m
Core cross-section		0.34 mm <sup>2</sup>
Housing material		PBT
Sensing face		PBT
Degree of protection		IP68
Cable		
Bending radius		> 10 x cable diameter
General information		
Use in the hazardous area		see instruction manuals
Category		1G; 2G; 1D
Compliance with standards and		
directives		
Standard conformity		
NAMUR		EN 60947-5-6:2000
		IEC 60947-5-6:1999
Standards		EN 60947-5-2:2007
		IEC 60947-5-2:2007
Approvals and certificates		
FM approval		
Control drawing		116-0165
UL approval		cULus Listed, General Purpose
CSA approval		cCSAus Listed, General Purpose
CCC approval		CCC approval / marking not required for products rated ≤36 V

### Dimensions

**Technical Data** 

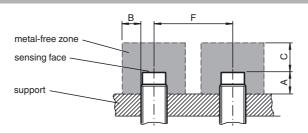


### **Electrical Connection**





## Installation Conditions



Equipment protection level Ga		
CE marking		C € 0102
ATEX marking		(☑) II 1G Ex ia IIC T6T1 Ga The Ex-related marking can also be printed on the enclosed label.
Standards		EN 60079-0:2012+A11:2013, EN 60079-11:2012 Ignition protection "Intrinsic safety" Use is restricted to the following stated conditions
Appropriate type		CJ4-12GK-N
Effective internal inductivity	Ci	$\leq$ 60 nF ; a cable length of 10 m is considered.
Effective internal inductance	Li	negligibly small A cable length of 10 m is considered.
Highest permissible ambient temperature		Details of the correlation between the type of circuit connected, the maximum permissible ambient temperature, the temperature class, and the effective internal reactance values can be found on the EU-type examination certificate. <b>Note:</b> Use the temperature table for category 1 !!! The 20 % reduction in accordance with EN 1127-1 has already been applied to the temperature table for category 1.
Special conditions		
Equipment protection level Gb		
CE marking		€€0102
ATEX marking		II 1G Ex ia IIC T6T1 Ga The Ex-related marking can also be printed on the enclosed label.
Standards		EN 60079-0:2012+A11:2013, EN 60079-11:2012 Ignition protection "Intrinsic safety" Use is restricted to the following stated conditions
Appropriate type		CJ4-12GK-N
Effective internal inductivity	Ci	$\leq$ 60 nF ; a cable length of 10 m is considered.
Effective internal inductance	Li	negligibly small A cable length of 10 m is considered.
Maximum permissible ambient temperature $\mathrm{T}_{\mathrm{amb}}$		Details of the correlation between the type of circuit connected, the maximum permissible ambient temperature, the temperature class, and the effective internal reactance values can be found on the EU-type examination certificate.
Special conditions		
Equipment protection level Da		
CE marking		C€0102
ATEX marking		(☑) II 1D Ex ia IIIC T135°C Da The Ex-related marking can also be printed on the enclosed label.
Standards		EN 60079-0:2012+A11:2013, EN 60079-11:2012 Ignition protection "Intrinsic safety" Use is restricted to the following stated conditions
Appropriate type		CJ4-12GK-N
Effective internal inductivity	Ci	$\leq$ 60 nF ; a cable length of 10 m is considered.
Effective internal inductance	Li	negligibly small A cable length of 10 m is considered.
Special conditions		

2

Germany: +49 621 776 4411 fa-info@de.pepperl-fuchs.com

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