

# **Model Number**

## CJ4-12GK-N-5M

### Features

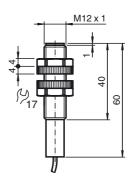
Comfort series

## Accessories

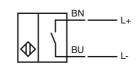
BF 12	
Mounting flange, 12 mm	

Technical Data		
General specifications		
Switching function		Normally open (NO)
Output type		NAMUR
Rated operating distance	Sn	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
С		12 mm
F		70 mm
Nominal voltage	U	8 V
Operating voltage	UB	7 12 V
Switching frequency	f	0 1 Hz
Current consumption		
Measuring plate not detected		≤1 mA
Measuring plate detected		≥ 2.4 mA
Functional safety related parameter	ers	
MTTFd		3299 a
Mission Time (T <sub>M</sub> )		20 a
Diagnostic Coverage (DC)		0 %
Ambient conditions		
Ambient temperature		-25 70 °C (-13 158 °F)
Mechanical specifications		
Connection type		cable PVC , 5 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



## **Electrical Connection**



Refer to "General Notes Relating to Pepperl+Fuchs Product Information". Pepperl+Fuchs Group www.pepperl-fuchs.com

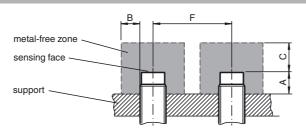
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# Installation Conditions



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 capacitance	C <sub>i</sub>	$\leq$ 60 nF ; a cable length of 10 m is considered.
Effective internal inductance	L <sub>i</sub>	negligibly small A cable length of 10 m is considered.
Highest permissible ambient tem	perature	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 capacitance	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 $T_{amb}$		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		€€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 capacitance	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		

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# **DEPPERL+FUCHS**