

Model Number

CJ4-12GK-N

Features

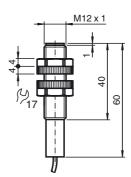
• 4 mm non-flush

Accessories

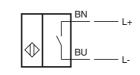
BF 12	
Mounting flange, 12 mm	

Technical Data		
General specifications		
Switching function		Normally open (NO)
Output type		NAMUR
Rated operating distance	Sn	4 mm
Installation	-11	non-flush
Assured operating distance	Sa	0 2.88 mm
Output type	u	2-wire
Nominal ratings		
Installation conditions		
A		20 mm
B		80 mm
C		12 mm
F		70 mm
Nominal voltage	U_	8.2 V (R_i approx. 1 k Ω)
Operating voltage	U _B	712 V
Switching frequency	f	01Hz
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 _M)		20 a
Diagnostic Coverage (DC)		0%
Ambient conditions		
Ambient temperature		-25 70 °C (-13 158 °F)
Mechanical specifications		-23 70 0 (-10 130 1)
Connection type Core cross-section		cable PVC , 2 m 0.34 mm ²
Housing material		PBT
Sensing face		PBT
Degree of protection		IP68
Cable		1 00
Bending radius		> 10 x cable diameter
General information		
Use in the hazardous area		see instruction manuals
		1G; 2G; 1D
Category Compliance with standards and		16, 26, 10
directives		
Standard conformity		
NAMUR		EN 60947-5-6:2000
NAMOR		IEC 60947-5-6:1999
Standards		EN 60947-5-2:2007
Otalidardo		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
		see apploval / maning not required for products rated 200 V

Dimensions



Electrical Connection



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

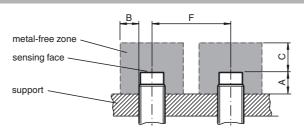
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Installation Conditions



Equipment protection level Ga				
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	C _i	\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. Note: 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		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	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		ເ⊛ 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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