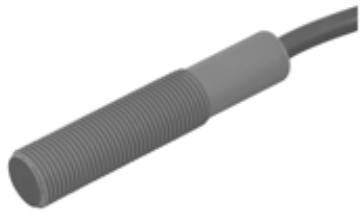


Model Number

CJ4-12GK-N-10M

Features

- **Comfort series**

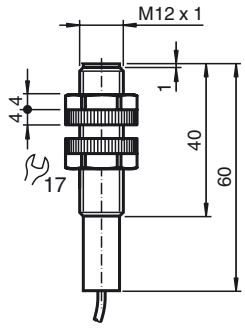
Accessories

BF 12
Mounting flange, 12 mm

Technical Data

General specifications		
Switching function		Normally open (NO)
Output type		NAMUR
Rated operating distance	s_n	4 mm
Installation		non-flush
Assured operating distance	s_a	0 ... 2.88 mm
Output type		2-wire
Nominal ratings		
Installation conditions		
A		20 mm
B		80 mm
C		12 mm
F		70 mm
Nominal voltage	U_o	8 V
Operating voltage	U_B	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 parameters		
$MTTF_d$		3299 a
Mission Time (T_M)		20 a
Diagnostic Coverage (DC)		0 %
Ambient conditions		
Ambient temperature		-25 ... 70 °C (-13 ... 158 °F)
Mechanical specifications		
Connection type		cable PVC , 10 m
Core cross-section		0.34 mm^2
Housing material		PBT
Sensing face		PBT
Degree of protection		IP68
Cable		
Cable diameter		4.8 mm ± 0.2 mm
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 EN 60947-5-2/A1:2012 IEC 60947-5-2:2007 IEC 60947-5-2 AMD 1:2012
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



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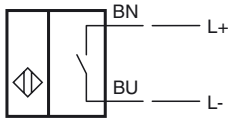
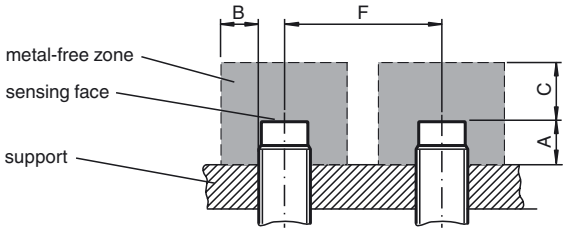
Electrical Connection



Installation Conditions



Equipment protection level Ga		
CE marking		CE 0102
ATEX marking		Ex II 1G Ex ia IIC T6…T1 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	≤ 60 nF ; a cable length of 10 m is considered.
Effective internal inductance	L_i	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		CE 0102
ATEX marking		Ex II 1G Ex ia IIC T6…T1 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	≤ 60 nF ; a cable length of 10 m is considered.
Effective internal inductance	L_i	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		CE 0102
ATEX marking		Ex 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	C_i	≤ 60 nF ; a cable length of 10 m is considered.
Effective internal inductance	L_i	negligibly small A cable length of 10 m is considered.
Special conditions		

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