









Model Number

CJ1-12GK-N

Features

• 1 mm non-flush

Accessories

BF 12

Mounting flange, 12 mm

Technical Data

General specifications

Switching function Normally open (NO) NAMUR Output type Rated operating distance 1 mm Installation non-flush Assured operating distance 0 ... 0.72 mm Output type 2-wire

Nominal ratings

Installation conditions Α 5 mm В 15 mm 12 mm C

70 mm 8.2 V (R_i approx. 1 kΩ) 7 ... 12 V Nominal voltage Operating voltage UB

0 ... 1 Hz Switching frequency

Current consumption

Measuring plate not detected ≤ 1 mA Measuring plate detected ≥ 2.4 mA

Functional safety related parameters

MTTF_d Mission Time (T_M) 5670 a 20 a Diagnostic Coverage (DC)

Ambient conditions

Ambient temperature -25 ... 70 °C (-13 ... 158 °F)

Mechanical specifications

cable PVC, 2 m Connection type Core cross-section 0.34 mm² Housing material PBT PBT Sensing face Degree of protection IP68

Bending radius

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

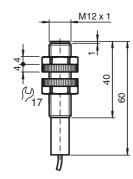
FM approval Control drawing

116-0165 cULus Listed, General Purpose UL approval CSA approval cCSAus Listed, General Purpose

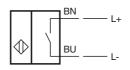
CCC approval / marking not required for products rated ≤36 V CCC approval

> 10 x cable diameter

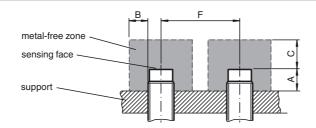
Dimensions



Electrical Connection



Installation Conditions



Equipment protection level Ga		
CE marking		C€ 0102
ATEX marking		(x) 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		CJ1-12GK-N
Effective internal capacitance	C _i	\leq 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		C €0102
ATEX marking		(x) 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		CJ1-12GK-N
Effective internal capacitance	C _i	\leq 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		C €0102
ATEX marking		(x) 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		CJ1-12GK-N
Effective internal capacitance	C_{i}	\leq 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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