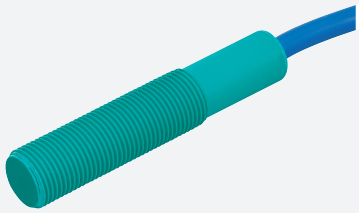
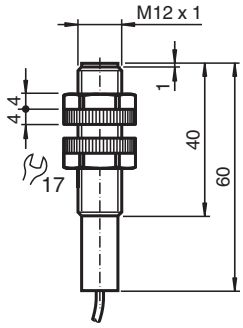


Capacitive sensor
CJ4-12GK-N

- 4 mm non-flush

Dimensions



Technical Data

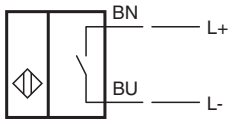
General specifications		
Switching function		Normally open (NO)
Output type		NAMUR
Rated operating distance	s_n	4 mm
Installation		non-flush
Assured operating distance	s_a	0 ... 2.88 mm
Output type		2-wire
Nominal ratings		
Installation conditions		
A		20 mm
B		80 mm
C		12 mm
F		70 mm
Nominal voltage	U_o	8.2 V (R_i approx. 1 kΩ)
Operating voltage	U_B	7 ... 12 V
Switching frequency	f	0 ... 1 Hz
Current consumption		

Release date: 2025-06-11 Date of issue: 2025-06-12 Filename: 70135022_eng.pdf

Technical Data

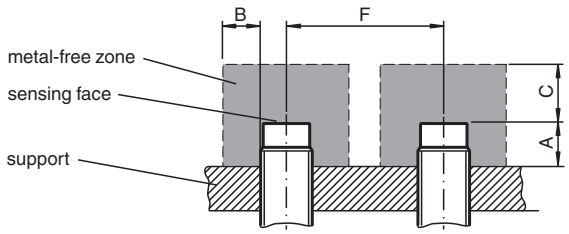
Measuring plate not detected		≤ 1 mA
Measuring plate detected		≥ 2.4 mA
Functional safety related parameters		
$MTTF_d$		3299 a
Mission Time (T_M)		20 a
Diagnostic Coverage (DC)		0 %
Compliance with standards and directives		
Standard conformity		
NAMUR		EN 60947-5-6:2000 IEC 60947-5-6:1999
Standards		EN IEC 60947-5-2
Approvals and certificates		
IECEx approval		
Equipment protection level Ga		IECEx TUN 20.0014X
Equipment protection level Gb		IECEx TUN 20.0014X
Equipment protection level Da		IECEx TUN 20.0014X
ATEX approval		
Equipment protection level Ga		TÜV 03 ATEX 2003 X
Equipment protection level Gb		TÜV 03 ATEX 2003 X
Equipment protection level Da		TÜV 03 ATEX 2003 X
FM approval		
Control drawing		116-0165
UL approval		cULus Listed Circuitry: Class 2 Power Source Enclosure Type Rating: Type 1 Supply/Switching Voltage: 8.2 V DC
Ambient conditions		
Ambient temperature		-25 ... 70 °C (-13 ... 158 °F)
Mechanical specifications		
Connection type		cable
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
Material		PVC
Core cross section		0.34 mm^2
Length	L	2 m
Dimensions		
Length		60 mm
Diameter		12 mm
General information		
Use in the hazardous area		see instruction manuals

Connection Assignment



Release date: 2025-06-11 Date of issue: 2025-06-12 Filename: 70135022_eng.pdf

Installation Conditions



Release date: 2025-06-11 Date of issue: 2025-06-12 Filename: 70135022_eng.pdf