

KN186050

Capacitive sensors • Increased ambient temperature

sensor capacitive, M18x1 70long, Non-flush, Sn: 2-50, -70-250°C, Amplifier Amplifier,
Cable 2m FEP, IP67, Stainless steel 1.4305

including 2x Nut



Capacitive proximity switches are contact-free sensors. They detect metallic and non-metallic objects, regardless of whether they move or not. The achievable sensing range of the devices depends on the object material, its dimensions and the response sensitivity, which is set via a potentiometer. The vibration-resistant sensors can be approached laterally or frontally. Capacitive proximity switches are used for presence detection (e.g. sealing detection), positioning (e.g. PET bottles), counting (e.g. plastic caps), level detection (e.g. lubricant) or distance measurements (e.g. thickness measurement) of solid and liquid materials.

Electrical features

Type of switching function	Amplifier
Type of electrical connection	Cable
Type of switching output	Amplifier
Short-circuit protection	Yes
Switching distance	2 - 50mm
Reverse polarity protection	Yes

Mechanical features

Design	Cylinder, screw-thread
Diameter	18mm
Thread pitch	1mm
Cable length	2m
Length	70mm
Mechanical mounting condition for sensor	non-flush
Degree of protection (IP)	IP67
Active area material of sensor	Plastic (PTFE)
Housing material	Stainless steel 1.4305
Material of cable sheath	Plastic (FEP)
Thread dimension	M18
Ambient temperature	-70 - 250°C

Other features

Level detection	Yes
Reference medium / object	Material with permittivity $\epsilon_r=81$
Ambient temperature	-70 - 250°C

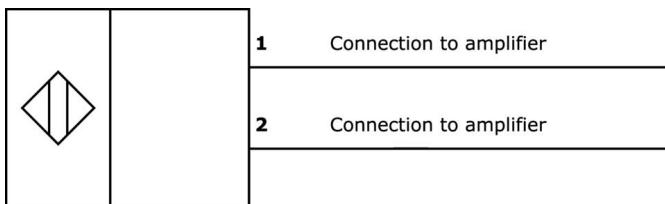
Classification

ETIM 8

EC002715 Capacitive proximity switch

More

IPF Product Group	242 capacitive sensors (high temperature)
packaging dimensions	149 x 124 x 28 mm
gross weight	160 g
Customs tariff number	85365019
WEEE number	40951076
Reach-compliant	Yes
RoHS-compliant	Yes

Connection**Installation**

Mounting / installation may only be carried out by a qualified electrician!

Disposal**Safety warnings**

Before initial operation, please make sure to follow all safety instructions that may be provided in the product information.

Never use these devices in applications where the safety of a person depends on their functionality.

For suitable connection and mounting accessories, please refer to our website www.ipf-electronic.com.

Dimensional drawing