# IPF ELECTRONIC

KN086051
CAPACITIVE SENSORS • ENLARGED AMBIENT TEMPERATURE

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.
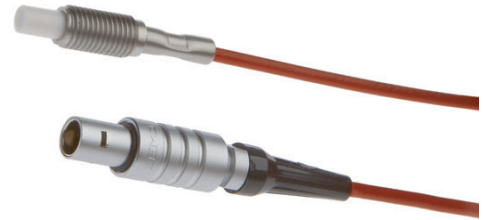
MECHANICAL FEATURES

Active area material of sensor	PTFE
Ambient temperature	-70 °C ... 250 °C
Ambient temperatures < -25°C	+
Cable length	5 m
Degree of protection (IP)	IP67
Housing design	Cylinder, screw-thread
Housing material	Stainless steel (V2A)
Increased ambient temperatures > 80°C	+
Material of cable sheath	FEP
Mechanical mounting condition for sensor	Non-flush
Pressure-proof	-
Sensor length	25 mm
Thread pitch	1 mm
Thread size, metric	8

ELECTRICAL FEATURES

Cascadable	-
Reverse polarity protection	+
Short-circuit protection	+
Suitable for safety functions	-
Switching distance	7 mm
Switching distance (MAX)	10 mm
Type of electrical connection	Cable with connector
Type of switching function	Amplifier
Type of switching output	Amplifier
With monitoring function of downstream devices	-

OTHER FEATURES

Level detection	+

Other

Packaging dimensions	77.0mm x 25.0mm x 123.0mm
Shipping weight	0.14kg
Tariff code	85365019

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Data sheet KN086051 • Subject to alteration! Version: 02.12.2019

Classification

ipf product group	242
eClass 8.0	27270102
eClass 9.0	27270102
eClass 9.1	27270102
ETIM-5.0	EC002715
ETIM-6.0	EC002715
ETIM-7.0	EC002715

Connection

1	connection to amplifier
2	connection to amplifier
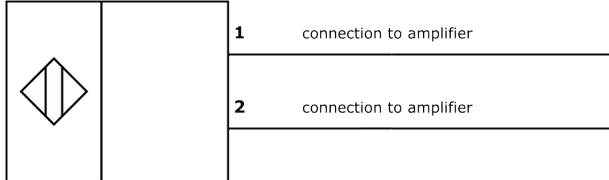
Dimensional drawing
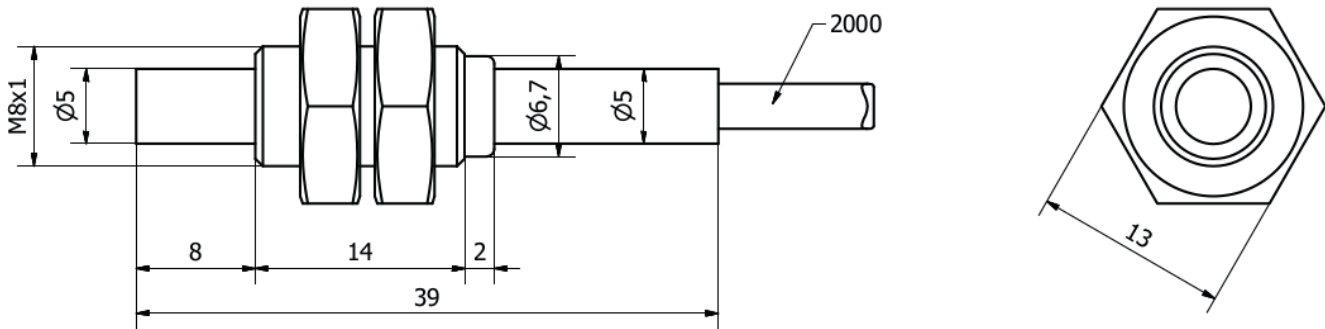
Installation

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

Disposal

Software
Please download the software or driver required for operating your new device on our homepage: www.ipf.de

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.
LED lighting systems can generate intensive UV radiation, which can damage your eyes in case of improper use. The manufacturer cannot be held responsible for damages that result from improper use or connection.