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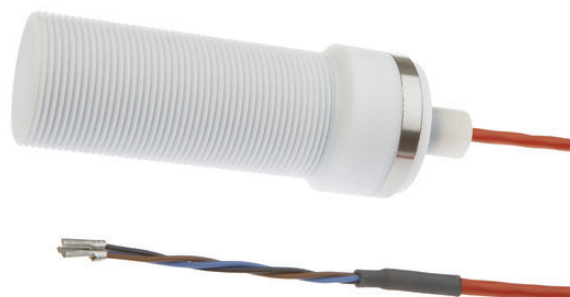DATA SHEET KN30A070 • Subject to alteration! Version: 03.05.2019

KN30A070

CAPACITIVE SENSORS • NORM SWITCHING DISTANCE

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 DATA

Active area material of sensor	PTFE
Ambient temperature	-25 °C ... 90 °C
Cable length	2 m
Degree of protection (IP)	IP68
Housing design	Cylinder, screw-thread
Housing material	PTFE
Increased ambient temperatures > 80°C	Yes
Material of cable sheath	FEP
Mechanical mounting condition for sensor	Non-flush
Number of wires	3
Pressure-proof	No
Sensor length	106 mm
Teflon housing	Yes
Thread pitch	1.5 mm
Thread size, metric	30
Wire cross section	0.34 mm²

ELECTRICAL DATA

Cascadable	No
Max. output current	400 mA
No-load current	12 mA
Reverse polarity protection	Yes
Setting procedure	Manual adjustment
Short-circuit-proof	Yes
Suitable for safety functions	No
Supply voltage	10 V ... 55 V
Switching distance	14 mm
Switching frequency	25 Hz
Type of electrical connection	Cable
Type of switching function	Breaker contact
Type of switching output	PNP

ipf electronic gmbh • Kalver Straße 25 - 27 • 58515 Lüdenscheid - Germany | Tel +49 2351 9365-0 • Fax +49 2351 9365-19 | info@ipf-electronic.com • www.ipf-electronic.com

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ELECTRICAL DATA

Voltage drop	1.5 V
Voltage type	DC
With LED display	Yes
With monitoring function of downstream devices	No

DIMENSIONAL DRAWING

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!

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