IPF ELECTRONIC

DATA SHEET KG010520 • Subject to alteration! Version: 03.05.2019

KG010520

CAPACITIVE SENSORS • LABEL SENSORS

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

Ambient temperature (MAX)	60 °C
Degree of protection (IP)	IP65
Fork width	1 mm
Housing coating	Anodised
Housing design	Cuboid
Housing material	Aluminium
Mechanical mounting condition for sensor	Non-flush
Pressure-proof	No
Sensor height	36 mm
Sensor length	24 mm
Sensor width	100 mm

ELECTRICAL DATA

Cascadable	No
Max. output current	200 mA
No-load current	70 mA
Rated control supply voltage Us at DC	10 V ... 35 V
Setting procedure	Teach-In
Suitable for safety functions	No
Supply voltage	10 V ... 35 V
Switching distance	1 mm
Switching distance	1 mm ... 1 mm
Type of electrical connection	Connector M12
Type of switching function	Anticoincidence
Type of switching output	PNP/NPN
Voltage drop	2.5 V
Voltage type	DC
With monitoring function of downstream devices	No

OTHER DATA

Detection of labels	Yes

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OTHER DATA

Level detection   Yes

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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