

KY98C471

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
Pressure-proof	No
Sensor height	15 mm
Sensor length	102 mm
Sensor width	32 mm

ELECTRICAL DATA

Cascadable	No
Max. output current	200 mA
No-load current	70 mA
Rated control supply voltage U_s 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
Type of electrical connection	Connector M8
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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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!