

KY98C054

CAPACITIVE SENSORS • INTEGRATED BUTTON

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)	70 °C
Ambient temperature (MIN)	-30 °C
Button design	Flat
Degree of protection (IP)	IP67
Front ring color	Chrome
Front ring material	Metal
Hole diameter	22.5 mm
Housing coating	Anodised
Housing design	Cylinder, screw-thread
Housing material	Plastic
Lens design	Round
Max. tightening torque	1 Nm
Thread length	10 mm
Thread pitch	1 mm
Thread size, metric	18

ELECTRICAL DATA

Max. output current	400 mA
No-load current	30 mA
Number of contacts as normally open contact	1
Number of pins	4
Rated control supply voltage U_s at DC (MAX)	28.8 V
Rated control supply voltage U_s at DC (MIN)	19.2 V
Reverse polarity protection	Yes
Scanning	Yes
Short-circuit-proof	Yes
Suitable for illumination	Yes
Supply voltage of lamp	24 V
Switching function, latching	No
Type of electric connection	Connector M8
Type of switching function	Normally open contact

ELECTRICAL DATA

Type of switching output	Relay contact
Voltage drop	2.5 V
Voltage type	DC
With LED display	Yes

OTHER DATA

With front ring	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!

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