

KB210170

Capacitive sensors • Norm switching distance

sensor capacitive, 43x12x20mm, Flush, Sn: 5, 10-30V DC, PNP NO, Connector M8, IP65, Nickel-plated brass Nickel-plated, LED



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.

Electrical features

Display	LED display
Type of switching function	Normally open contact (NO)
Type of electrical connection	Connector M8
Type of switching output	PNP
Rated switching current	200 mA
Short-circuit protection	Yes
No-load current	20 mA
Switching distance	5 mm
Switching frequency	50 Hz
Voltage drop	1.5 V
Reverse polarity protection	Yes
Operating voltage (DC)	10 - 30 V

Mechanical features

Design	Cuboid
Width	20 mm
Height	43 mm
Length	12 mm
Mechanical mounting condition for sensor	flush
Surface	nickel-plated
Degree of protection (IP)	IP65
Housing material	Nickel-plated brass
Ambient temperature	-25 - 75 °C

Other features

Reference medium / object ardTE00_Anwendungen	Material with permittivity $\epsilon_r=81$ Niveauabfrage
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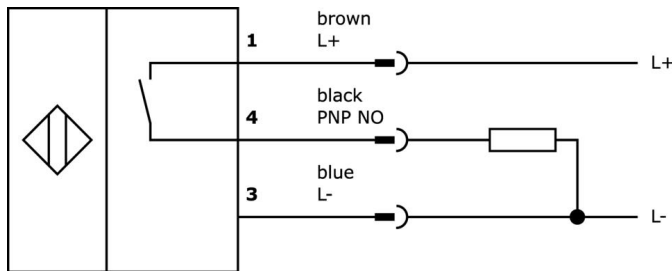
Classification

ETIM 8	EC002715 Capacitive proximity switch
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More

IPF Product Group	243 capacitive sensors (diverse)
packaging dimensions	120 x 100 x 17 mm
gross weight	30 g
Customs tariff number	85365019
WEEE number	40951076
OzDS-compliant	Yes
POP-compliant	Yes
Reach-compliant	Yes
RoHS-compliant	Yes

Connection



Extract accessories program

NG530002



DC power supply, single-phase, 99x114x22mm, 24V, 0.1A, Number of relay outputs 2, 100-264V AC 50Hz, 100-264V AC 60Hz, Screw connection, IP20, Plastic, Stabilized, Output voltage, pulsed

VL300138



Logic module, 26x136x30mm, OR, 2x4fold, 10-30V DC, sensor side M8 Female (socket) 3pin, control side M12 Male (connector) 12pin, IP67, Plastic

VL300148



Logic module, 26x136x30mm, AND, 4fold, 10-30V DC, sensor side M8 Female (socket) 3pin, control side M12 Male (connector) 12pin, IP67, Plastic, Signal change logic

VY000004



DC power supply, sensor tester, 120x26x72mm, 18V, 0.04A, Spring clamp connection 4pin, IP20, Plastic

VY030170



time stage, Turn-off delay, 0-0.15s, 10-35V DC, 1x NO, M8 3pin 0.3m, IP67, Plastic, Potentiometer

VY030174



time stage, Turn-off delay, 0-0.15s, 10-35V DC, 1x NO, M8 3pin 0.3m, IP67, Plastic, Potentiometer

VK000036



Adaption, M8 Female (socket) 3pin Straight, M12 Male (connector) 3pin Straight, 24V, -25-85°C, IP67, Oil and cooling lubricants, Welding area

VYR90270



Signal inversion, Ø9mm 32long, 10-35V DC, 1x NC, M8 0.3m, IP67, Aluminum

VYR91170



Inverter, Ø9mm 32long, PNP/NPN, 10-35V DC, 1x NO, M8 0.3m, IP67, Aluminum

You can find further accessories on our homepage



Installation

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



Disposal

WEEE number according to § 6 para. 3 ElektroG: 40951076

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.