

KN320420

Capacitive sensors • Norm switching distance

Sensor capacitive, M32x1.5 82long, non-flush, Sn: 1-40, 10-35V DC, -25-70°C, 2x PNP exclusive-OR, M12 connector, IP67, brass, LED, manual setting

including Nut, Screwdriver



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

Number of switching outputs	2
Display	LED display
Type of switching function	Exclusive-OR
Type of electrical connection	Connector M12
Type of switching output	PNP
Rated switching current	250 mA
Setting procedure	Potentiometer
Short-circuit protection	Yes
No-load current	15 mA
Switching distance	1 - 40 mm
Switching frequency	50 Hz
Voltage drop	2 V
Reverse polarity protection	Yes
Operating voltage (DC)	10 - 35 V
Output functions	Switching point

Mechanical features

Design	Cylinder, screw-thread
Thread pitch	1.5 mm
Length	82 mm
Mechanical mounting condition for sensor	non-flush
Degree of protection (IP)	IP67
Active area material of sensor	Plastic (PTFE)
Housing material	Brass
Thread dimension	M32
Ambient temperature	-25 - 70 °C

Other features

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

Classification

ETIM 8	EC002715 Capacitive proximity switch
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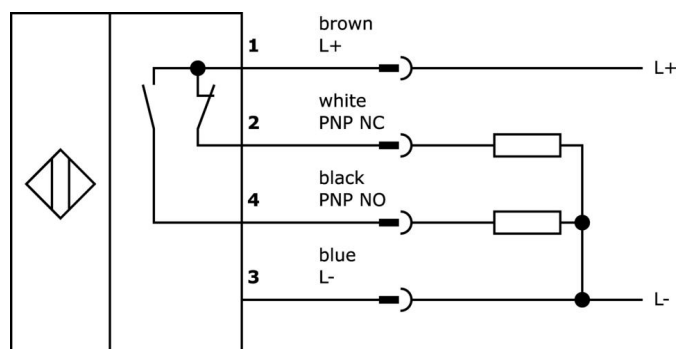
More

IPF Product Group	243 capacitive sensors (diverse)
packaging dimensions	125 x 70 x 40 mm
gross weight	240 g
Customs tariff number	85365019
WEEE number	40951076
Reach-compliant	Yes
RoHS-compliant	Yes

Important notes

/ The potentiometer is located behind the coverage.

Connection



Extract accessories program

VK000041



Adaption, M12 Female (socket)
4pin Straight, M8 Male
(connector) 4pin Straight, 24V, -
25-85°C, IP67, Oil and cooling
lubricants, Welding area

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

VY030224



Signal inversion, 10-35V DC, 1x
NC/NO, M12 3pin 0.3m, IP67,
Plastic

VY031124



Inverter, PNP/NPN, 10-35V DC, 1x
NO, M12 3pin 0.3m, IP67, Plastic

VY000004



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

VL600104



Logic module, 42x122x60mm,
AND, 4-gang, 10-30V DC, 4-pin
M12 socket on sensor side, 4-pin
M12 connector on control side,
IP67, plastic

VL600108



Logic module, 42x172x60mm,
AND, 8fold, 10-30V DC, sensor side
M12 Female (socket) 4pin, control
side M12 Male (connector) 4pin,
IP67, Plastic

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.