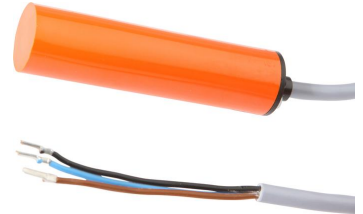


KN200187

Capacitive sensors • Norm switching distance

Sensor capacitive, Ø20mm 78lang, non-flush, Sn: 1-15, PNP NO, cable, IP67, PBT, LED, manual setting

including 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

Display	LED display
Type of switching function	Normally open contact (NO)
Type of electrical connection	Cable
Type of switching output	PNP
Rated switching current	400 mA
Setting procedure	Potentiometer
Short-circuit protection	Yes
No-load current	4 mA
Switching distance	1 - 15 mm
Switching frequency	25 Hz
Voltage drop	1.5 V
Reverse polarity protection	Yes
Output functions	Switching point

Mechanical features

Design	Cylinder plain
Diameter	20 mm
Length	78 mm
Mechanical mounting condition for sensor	non-flush
Degree of protection (IP)	IP67
Active area material of sensor	Plastic (PBT)
Housing material	PBT
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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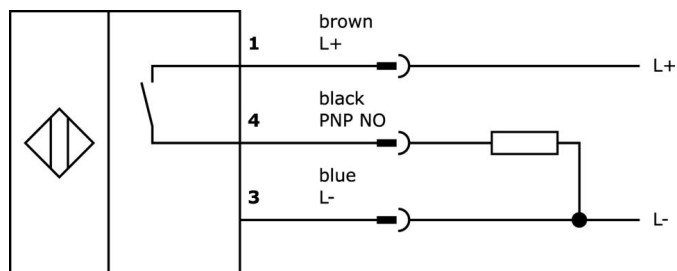
More

IPF Product Group	243 capacitive sensors (diverse)
packaging dimensions	125 x 70 x 40 mm
gross weight	170 g
Customs tariff number	85365019
WEEE number	40951076
Reach-compliant	Yes
RoHS-compliant	Yes

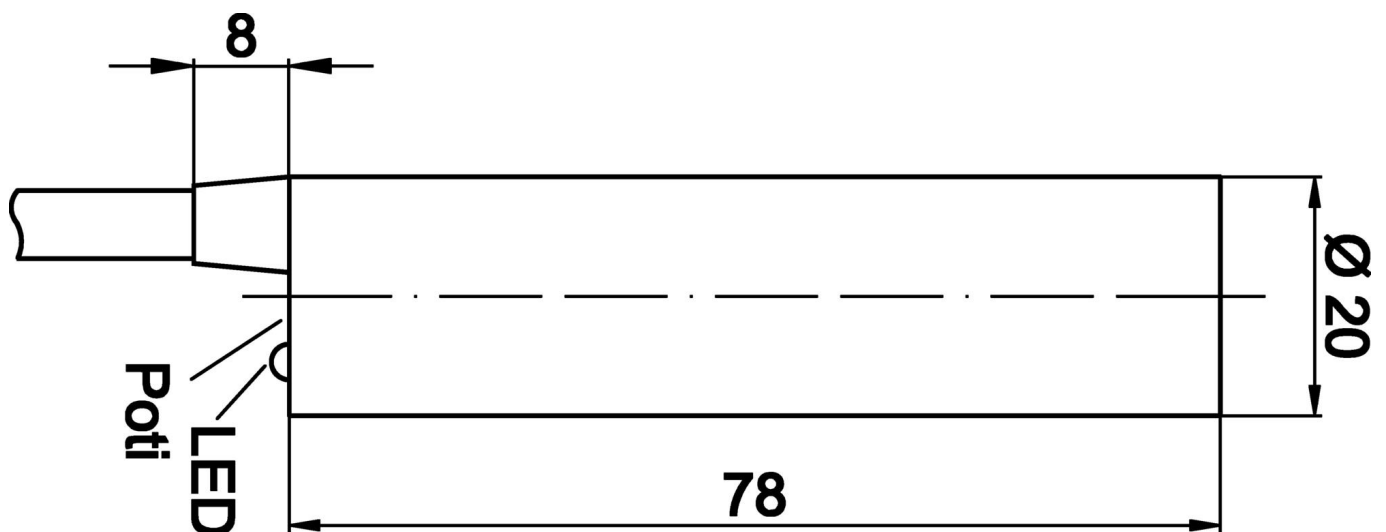
Important notes

/ The potentiometer is located behind the screw.

Connection



Dimensional drawing



Extract accessories program

VL250100



Logic module, 49x80x26mm, AND, 4fold, 10-35V DC, sensor side
Clamp, control side Clamp, IP40, Plastic

VL250120



Logic module, 49x80x26mm, OR, 4fold, 10-35V DC, sensor side
Clamp, control side Clamp, IP40, Plastic

AF000001



accessories, Mounting sleeve, 3/4 inch 87long, Polytetrafluorethylene (PTFE)

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

VY000004



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