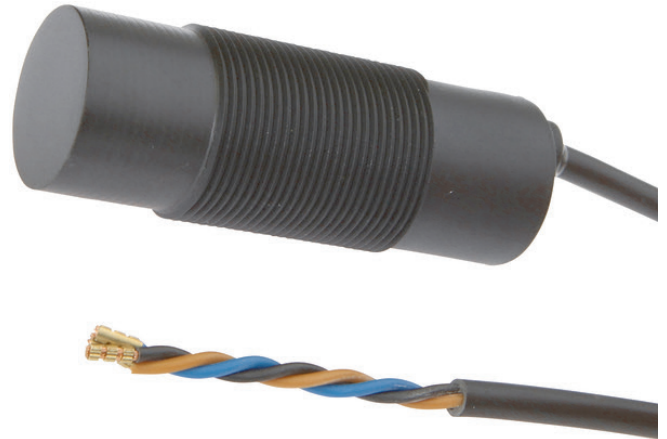


KN300107

CAPACITIVE SENSORS • NORM SWITCHING DISTANCE

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 FEATURES

Active area material of sensor	PA 6.6 (synthetic)
Ambient temperature	-25 °C ... 70 °C
Cable length	2 m
Degree of protection (IP)	IP67
Housing design	Cylinder, screw-thread
Housing material	PBT
Material of cable sheath	PVC
Mechanical mounting condition for sensor	Non-flush
Number of cores	3
Pressure-proof	-
Sensor length	81 mm
Thread length	40 mm
Thread pitch	1.5 mm
Thread size, metric	30

ELECTRICAL FEATURES

Cascadable	-
Correction factor (glass)	0.6
Correction factor (oil)	0.5
Correction factor (PVC)	0.5
Correction factor (wood)	0.6
Hysteresis	15 %
Max. output current	400 mA
No-load current	20 mA
Rated control supply voltage U_s at DC	10 V ... 60 V
Reverse polarity protection	+
Setting procedure	Manual adjustment
Short-circuit protection	+
Suitable for safety functions	-
Supply voltage	10 V ... 60 V
Switching distance	20 mm
Switching distance	5 mm ... 20 mm
Switching frequency	25 Hz

ELECTRICAL FEATURES

Type of electrical connection	Cable
Type of switching function	Normally open contact
Type of switching output	PNP
Voltage drop	3 V
Voltage type	DC
With LED display	+
With monitoring function of downstream devices	-

OTHER FEATURES

Level detection	+
-----------------	---

Other

Packaging dimensions	74.0mm x 74.0mm x 143.0mm
Shipping weight	0.2kg
Tariff code	85365019

Classification

ipf product group	243
eClass 8.0	27270102
eClass 9.0	27270102
eClass 9.1	27270102
ETIM-5.0	EC002715
ETIM-6.0	EC002715
ETIM-7.0	EC002715

Connection

