

KN32A296

Capacitive sensors • Increased ambient temperature

Sensor capacitive, M32x1.5 70long, non-flush, Sn: 1-40, 10-35V diagnostic coverage, -25-100°C, 2x PNP exclusive-OR, cable tail 2m, IP67, PTFE, LED

including 2x Nut, 1x 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	Cable
Type of switching output	PNP
Rated switching current	250mA
Short-circuit protection	Yes
No-load current	15mA
Switching distance	1 - 40mm
Switching frequency	50Hz
Voltage drop	2V
Reverse polarity protection	Yes
Operating voltage (DC)	10 - 35V

Mechanical features

Number of cores	4
Conductor cross-section	0.5mm ²
Design	Cylinder, screw-thread
Thread pitch	1.5mm
Cable length	2m
Length	70mm
Mechanical mounting condition for sensor	non-flush
Degree of protection (IP)	IP67
Housing material	Polytetrafluorethylene (PTFE)
Thread dimension	M32
Ambient temperature	-25 - 100°C

Other features

Important note	Das Potentiometer befindet sich hinter der Abdeckung.
Level detection	Yes
Level detection of synthetic granules for injection molding machines	Yes
Reference medium / object	Material with permittivity $\epsilon_r=81$
Ambient temperature	-25 - 100°C

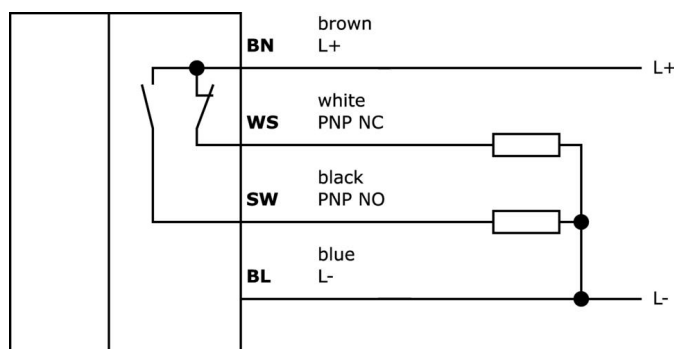
Classification

ETIM 8	EC002715 Capacitive proximity switch
--------	--------------------------------------

More

IPF Product Group	242 capacitive sensors (high temperature)
packaging dimensions	149 x 124 x 35 mm
gross weight	260 g
Customs tariff number	85365019
WEEE number	40951076
Reach-compliant	Yes
RoHS-compliant	Yes

Connection



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.

For suitable connection and mounting accessories, please refer to our website www.ipf-electronic.com.