

UT300028

Ultrasonic sensors • Distance measurement

sensor ultrasonic, diffuse-reflection sensor, M30x1.5 140long, Sn: 250-2000, 19-30V DC, PNP Programmable/configurable, 0-10V, Connector M12 5pin, IP65, Plastic, Teach-In, With LED display, ultrasonic cone Axial

including 2x Nut



Ultrasonic sensors are non-contact and wear-free position switches which can also be used under rough environmental conditions. A key advantage of these devices lies in the fact that the material and the surface characteristics of the objects to be detected can be almost anything. Solids, liquids, grainy materials and powdery materials can be identified without the shape or the color of the object having any influence to the measured result. In addition, the ability to detect transparent materials such as films and fluids is of particular importance. The shape and color of the objects do not influence the result of the detection. The capability to detect transparent films or liquids is also of special importance. Ultrasonic sensors are used for distance measurement (e.g. detection of diameters, loop control), for fill level detection (e.g. silo detection), for positioning and presence detection (e.g. glass pane positioning, film tear check, glass bottle detection)

Electrical features

Response/decay time	300ms
Display	LED display
Resolution	1mm
Type of switching function	Programmable/configurable
Type of analog output	0 - 10V
Type of electrical connection	Connector M12
Type of switching output	PNP
Rated switching current	100mA
Setting procedure	Teach-In
Relative hysteresis	1%
Short-circuit protection	Yes
No-load current	45mA
Number of pins	5
Relative linearity deviation	0.5%
Relative repeat accuracy	0.4%
Sound outlet	axial
Switching frequency	2Hz
Protection class	III
Temperature compensation	50°C
Carrier frequency	180kHz
Reverse polarity protection	Yes
Operating voltage (DC)	19 - 30V
Measuring range	250 - 2000mm

Mechanical features

Design	Cylinder, screw-thread
Thread length	90mm
Thread pitch	1.5mm
Length	140mm
Degree of protection (IP)	IP65
Housing material	Plastic
Diameter detection	Yes
Thread dimension	M30
Ambient temperature	-15 - 70°C

Optical features

Angle of beam spread	8°
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Other features

Operating frequency	180kHz
Level detection	Yes
Ambient temperature	-15 - 70°C

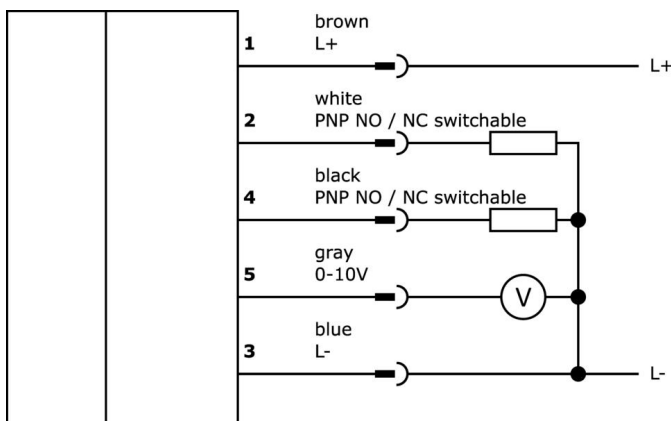
Classification

ETIM 8	EC001846 Ultrasonic distance sensor
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More

IPF Product Group	259 ultrasonic sensors (analog)
packaging dimensions	170 x 105 x 55 mm
gross weight	190 g
Customs tariff number	85365019
WEEE number	40951076
OzDS-compliant	Yes
POP-compliant	Yes
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.

Dimensional drawing

