UT306140

Ultrasonic sensors ● Pushbuttons

sensor ultrasonic, diffuse-reflection sensor, M30x1.5 138long, Sn: 150-1500, 1x
Amplifier Amplifier, B-connector 7pin, IP65, Stainless steel, 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

Number of switching outputs	1
Display	LED display
Type of switching function	Amplifier
Type of electrical connection	B-connector
Type of switching output	Amplifier
Short-circuit protection	Yes
No-load current	20mA
Number of pins	7
Relative repeat accuracy	0.25%
Sound outlet	axial
Carrier frequency	220kHz
Reverse polarity protection	Yes
Measuring range	150 - 1500mm
Input function	Synchronization

Mechanical features

Design	Cylinder, screw-thread
Thread length	90mm
Thread pitch	1.5mm
Length	138mm
Degree of protection (IP)	IP65
Housing material	Stainless steel
Diameter detection	Yes
Thread dimension	M30
Ambient temperature	0 - 70°C

Optical features

Angle of beam spread	10°

Other features

Operating frequency	220kHz
Level detection	Yes
Object detection on conveyor systems	Yes
Ambient temperature	0 - 70°C

Classification

ETIM 8	EC001849 Ultrasonic probe

More

IPF Product Group	259 ultrasonic sensors (analog)
packaging dimensions	170 x 107 x 52 mm
gross weight	300 g
Customs tariff number	85365019
WEEE number	40951076
OzDS-compliant	Yes
POP-compliant	Yes
Reach-compliant	Yes
RoHS-compliant	Yes

Connection

Connection to amplifier

1	24V DIAGNOSTIC COVERAGE	L+
3	Send sound pulse	
4	Receive echo	
5	sensitivity	
6	Temperature	
7	n.c.	
2	GND	L-
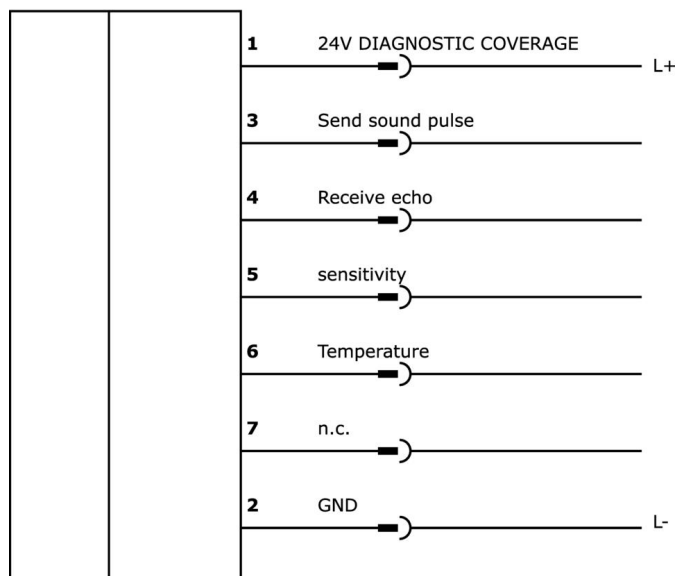
Installation

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.

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