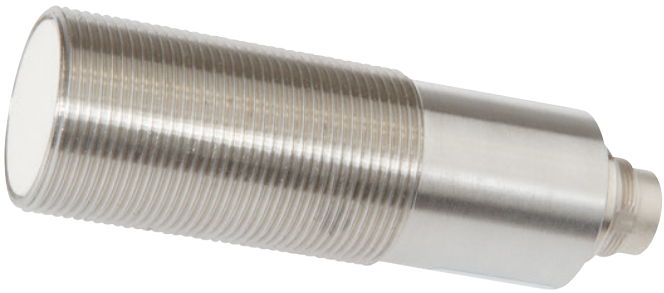
UT306142

ULTRASONIC SENSORS • DIFFUSE REFLECTIONS SENSORS



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)

MECHANICAL DATA

Ambient temperature (MAX)	70 °C
Ambient temperature (MIN)	0 °C
Degree of protection (IP)	IP65
Housing design	Cylinder, screw-thread
Housing material	Stainless steel V2A
Sensor diameter	30 mm
Sensor length	98 mm
Thread length	55 mm
Thread pitch	1.5 mm
Thread size, metric	30

ELECTRICAL DATA

Adjustable distance (MAX)	4000 mm
Adjustable distance (MIN)	400 mm
Carrier frequency	130 kHz
Distance measuring sensors	Yes
Number of pins	7
Sensing range (MAX)	4000 mm
Sensing range (MIN)	400 mm
Setting procedure	Manual adjustment
Sound cone (angle of beam spread)	8 °
Type of electrical connection	Axial connector
With LED display	Yes

OTHER DATA

Level detection	Yes

DIMENSIONAL DRAWING

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.

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