

UT306041

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	-15 °C ... 70 °C
Degree of protection (IP)	IP65
Housing design	Cylinder, screw-thread
Housing material	Stainless steel
Sensor length	153 mm
Thread length	90 mm
Thread pitch	1.5 mm
Thread size, metric	30

ELECTRICAL DATA

Measuring range length	300 mm ... 3000 mm
No-load current	20 mA
Number of pins	7
Reverse polarity protection	Yes
Sensing range	300 mm ... 3000 mm
Short-circuit-proof	Yes
Sound cone (angle of beam spread)	10 °
Sound outlet	Axial
Supply voltage	19 V ... 30 V
Synchronization possible	No
Type of electrical connection	T-connector
Type of switching output	Amplifier
Voltage type	DC

OPTICAL DATA

Resolution	1 mm
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OTHER DATA

Dead zone	300 mm
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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!