

UT18C756

ULTRASONIC SENSORS • DISTANCE MEASUREMENT

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)	-15 °C
Degree of protection (IP)	IP67
Diameter detection	Yes
Housing coating	PTFE
Housing design	Cylinder, screw-thread
Housing material	Plastic
Sensor length	100 mm
Thread length	65 mm
Thread pitch	1 mm
Thread size, metric	18

ELECTRICAL DATA

Adjustable distance (MAX)	400 mm
Adjustable distance (MIN)	30 mm
Adjustable measuring range	Yes
Distance measuring sensors	Yes
Filling level measurement	Yes
Measuring range length (MAX)	400 mm
Measuring range length (MIN)	30 mm
No-load current	40 mA
Number of pins	5
Relative repeat accuracy	0.2 %
Response time	100 ms
Setting procedure	Teach-In
Setting via teach-in	Yes
Sound cone (angle of beam spread)	8 °
Sound outlet	Axial

ELECTRICAL DATA

Supply voltage (MAX)	30 V
Supply voltage (MIN)	15 V
Synchronization possible	No
Temperature compensation	70 °C
Temperature compensation	-15 °C
Type of analog output	4 mA ... 20 mA
Type of electrical connection	Connector M12
Voltage type	DC
With LED display	Yes

OTHER DATA

Level detection	Yes
Loop control	Yes
Relative linearity deviation	0.5 %
With protective coating	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.