

UT18C420

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	0 °C ... 60 °C
Degree of protection (IP)	IP67
Diameter detection	Yes
Housing design	Cylinder, screw-thread
Housing material	Stainless steel
Housing material, detail	Stainless steel V4A
Sensor length	92 mm
Thread pitch	1 mm
Thread size, metric	18

ELECTRICAL DATA

Adjustable measuring range	Yes
Carrier frequency	400 kHz
Distance measuring sensors	Yes
Filling level measurement	Yes
Measuring range length	60 mm ... 400 mm
No-load current	55 mA
Number of pins	4
Residual ripple	10 %
Reverse polarity protection	Yes
Setting procedure	Teach-In
Setting via teach-in	Yes
Short-circuit-proof	Yes
Sound outlet	Axial
Supply voltage	15 V ... 30 V
Synchronization possible	No
Type of analog output	4 mA ... 20 mA
Type of electrical connection	Connector M12

ELECTRICAL DATA

Voltage type	DC
With LED display (measuring range)	Yes

OTHER DATA

Level detection	Yes
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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!