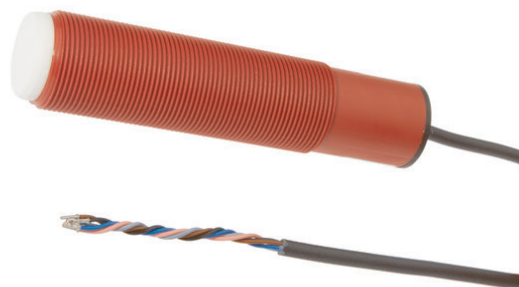


## UT30C993

### 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	-20 °C ... 70 °C
Degree of protection (IP)	IP67
Diameter detection	Yes
Housing design	Cylinder, screw-thread
Housing material	Plastic
Housing material, detail	PBT
Sensor length	128 mm
Thread length	90 mm
Thread pitch	1.5 mm
Thread size, metric	30

#### ELECTRICAL DATA

Adjustable distance	300 mm ... 3500 mm
Adjustable measuring range	Yes
Carrier frequency	130 kHz
Hysteresis	1 %
Max. output current	500 mA
Measuring range length	300 mm ... 3500 mm
No-load current	80 mA
Number of switching outputs	2
Relative repeat accuracy	0.2 %
Reverse polarity protection	Yes
Sensing range	300 mm ... 3500 mm
Setting procedure	Teach-In
Setting via teach-in	Yes
Short-circuit-proof	Yes
Sound cone (angle of beam spread)	8 °
Sound outlet	Axial

**ELECTRICAL DATA**

Supply voltage	12 V ... 30 V
Switching frequency	0.5 Hz
Switching output with window function	Yes
Synchronization possible	No
Type of electrical connection	Connector M12
Type of switching function	Programmable/configurable
Type of switching output	PNP
Voltage type	DC
With LED display	Yes

**OTHER DATA**

Dead zone	300 mm
Level detection	Yes
Loop control	Yes
Object detection on conveyor systems	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!