

#### UT120320

#### **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)	-20 °C
Degree of protection (IP)	IP65
Diameter detection	Yes
Housing design	Cylinder, screw-thread
Housing material	Stainless steel
Housing material, detail	Stainless steel
Thread pitch	1 mm
Thread size, metric	12

#### **ELECTRICAL DATA**



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Voltage type	DC
With LED display	Yes

## **OPTICAL DATA**

High resolution	Yes
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#### **OTHER DATA**

Level detection	Yes
Object detection on conveyor systems	Yes

## **DIMENSIONAL DRAWING**

# INSTALLATION DISPOSAL



Mounting / Installation may only be carried out by a qualified electrician!



## **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.