

UT360321

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) | IP67 |
| Diameter detection | Yes |
| Housing design | Cuboid |
| Housing material | Plastic |
| Housing material, detail | Plastic |
| Sensor height | 101 mm |
| Sensor length | 32.5 mm |
| Sensor width | 36 mm |

ELECTRICAL DATA

| | |
|---------------------------------------|---------------------------|
| Adjustable measuring range | Yes |
| Max. output current | 500 mA |
| Measuring range length | 60 mm ... 500 mm |
| Number of switching outputs | 1 |
| Sensing range | 60 mm ... 500 mm |
| Setting via teach-in | Yes |
| Sound outlet | Axial |
| Supply voltage | 12 V ... 30 V |
| Switching output with window function | Yes |
| Synchronization input | Yes |
| Synchronization possible | Yes |
| 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

| | |
|--------------------------------------|-----|
| 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!