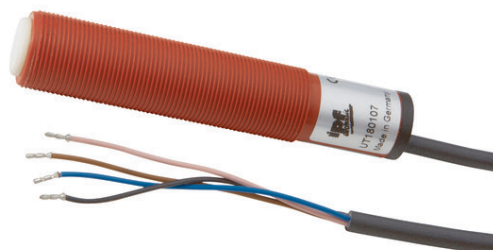


UT180107

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

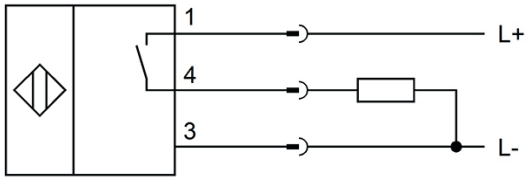
ELECTRICAL DATA

Adjustable measuring range	Yes
Max. output current	500 mA
Measuring range length (MAX)	600 mm
Measuring range length (MIN)	100 mm
Number of switching outputs	1
Sensing range (MAX)	600 mm
Sensing range (MIN)	100 mm
Sound outlet	Axial
Supply voltage (MAX)	30 V
Supply voltage (MIN)	18 V
Synchronization input	Yes
Synchronization possible	Yes
Type of electrical connection	Cable
Type of switching function	Normally open contact (NO)
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

CONNECTION



Colors: 1 = BN (brown), 3 = BU (blue), 4 = BK (black)

Functions: 1 = L+, 3 = L-, 4 = PNP NO

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.