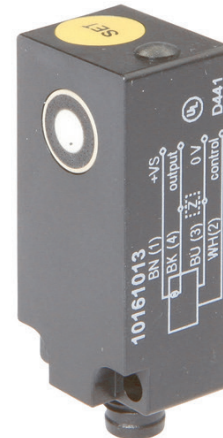


**UR211270**
**ULTRASONIC SENSORS • RETRO-REFLECTIVE SENSORS**

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**

Degree of protection (IP)	IP67
Diameter detection	Yes
Housing design	Cuboid
Housing material	Plastic
Housing material, detail	Plastic (polyester)
Sensor height	42 mm
Sensor length	15 mm
Sensor width	20 mm

**ELECTRICAL DATA**

Carrier frequency	380 kHz
Max. output current	200 mA
Measuring range length	0 mm ... 200 mm
No-load current	35 mA
Relative repeat accuracy	1.5 %
Response time	10 ms
Response/decay time	10 ms
Setting procedure	Teach-In
Setting via teach-in	Yes
Sound cone with small angle of beam spread	Yes
Sound outlet	Lateral
Supply voltage	12 V ... 30 V
Temperature drift	2 %
Type of electrical connection	Connector M8
Type of switching function	Breaker contact (NC)
Type of switching output	NPN
Voltage drop	2 V
Voltage type	DC

**ELECTRICAL DATA**

With LED display

Yes

**OTHER DATA**

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!