UT300020

ULTRASONIC SENSORS • DISTANCE MEASUREMENT

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)

-20 °C 70 °C
IP67
Yes
Cylinder, screw-thread
Plastic
PBT
141 mm
55 mm
1.5 mm
30
Yes
130 kHz
Yes
Yes
300 mm 3500 mm
30 mA
5
0.4 %
400 ms
Yes
Teach-In
Yes
Yes
Yes 8°

MECHANICAL DATA

IPF ELECTRONIC

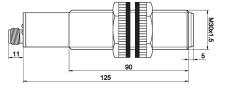
ELECTRICAL DATA

Synchronization possible	No
Type of analog output	4 mA 20 mA
Type of electrical connection	Connector M12
Voltage type	DC
With LED display	Yes
With LED display (alignment aid)	Yes
With LED display (measuring range)	Yes

OPTICAL DATA

Resolution	1 mm
OTHER DATA	
Level detection	Yes
Loop control	Yes
Relative linearity deviation	0.5 %

DIMENSIONAL DRAWING



INSTALLATION



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!