## UT300029

#### **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)

-15 °C 70 °C
IP65
Yes
Cylinder, screw-thread
Plastic
Plastic
140 mm
90 mm
1.5 mm
30
Yes
130 kHz
Yes
Yes
Yes
1 %
100 mA
350 mm 3500 mm
45 mA
5
0.4 %
500 ms
Yes
350 mm 3500 mm
Teach-In
Yes

## **MECHANICAL DATA**

# **IPF** ELECTRONIC

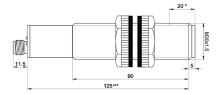
## **ELECTRICAL DATA**

Short-circuit-proof	Yes
Sound cone (angle of beam spread)	8 °
Sound outlet	Axial
Supply voltage	19 V 30 V
Switching frequency	1 Hz
Synchronization possible	No
Temperature compensation	50 °C
Type of analog output	0 V 10 V
Type of electrical connection	Connector M12
Type of switching function	Programmable/configurable
Type of switching output	PNP
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!

#### DISPOSAL



## **SAFETY WARNINGS**

Before initial operation, please make sure to follow all safety instructions that may be provided in the product ipf electronic gmbh • Kalver Straße 25 - 27 • 58515 Lüdenscheid - Germany | Tel +49 2351 9365-0 • Fax +49 2351 9365-19 | info@ipf-electronic.com • www.ipf-electronic.com



information!