

## UT18E291

### Ultrasonic sensors • Distance measurement

Sensor ultrasonic, probe, M18x1 55lang, Sn: 150-800, 12-30V DC, 4-20mA, M12 connector 5pin, IP67, V4A, sound cone axial

including 2x Nut



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)

#### Electrical features

Response/decay time	120ms
Resolution	0.2mm
Type of analog output	4 - 20mA
Type of electrical connection	Connector M12
Short-circuit protection	Yes
Load resistance (current output)	0.5kOhm
No-load current	25mA
Number of pins	5
Relative linearity deviation	1%
Relative repeat accuracy	0.5%
Sound outlet	axial
Protection class	III
Temperature drift over entire measuring range	0.1%
Carrier frequency	140kHz
Reverse polarity protection	Yes
Operating voltage (DC)	12 - 30V
Measuring range	150 - 800mm

## Mechanical features

Design	Cylinder, screw-thread
Thread length	15mm
Thread pitch	1mm
Length	55mm
Degree of protection (IP)	IP67
Housing material	Stainless steel 1.4404
Diameter detection	Yes
Thread dimension	M18
Ambient temperature	-20 - 70°C

## Optical features

Angle of beam spread	40°
----------------------	-----

## Other features

Operating frequency	140kHz
Level detection	Yes
Ambient temperature	-20 - 70°C

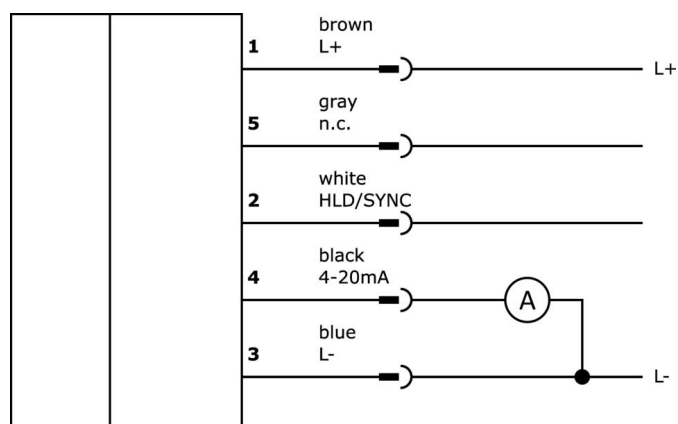
## Classification

ETIM 8	EC001846 Ultrasonic distance sensor
--------	-------------------------------------

## More

IPF Product Group	259 ultrasonic sensors (analog)
packaging dimensions	123 x 77 x 25 mm
gross weight	68 g
Customs tariff number	85365019
WEEE number	40951076
OzDS-compliant	Yes
POP-compliant	Yes
Reach-compliant	Yes
RoHS-compliant	Yes

## Connection



#### 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.

For suitable connection and mounting accessories, please refer to our website [www.ipf-electronic.com](http://www.ipf-electronic.com).

#### Dimensional drawing

