

UT180027

Ultrasonic sensors • Distance measurement

Ultrasonic sensor, diffuse reflection sensor, M18x1 104 long, Ser. No.: 100-600, 18-30 V DC, 0-10 V, 4-pin M12 connector, IP67, plastic, sound cone, synchronization possible

including Nut



Ultrasonic sensors are contactless, wear-free position switches that can be used even under harsh environmental conditions. A key advantage of these devices is that the material and surface properties of the objects to be detected can be virtually any type. They perform recognition on solid, liquid, granular, and powdered materials. The shape and color of the objects have no effect on the recognition result. The ability to detect transparent materials such as films or liquids is also a feature. Ultrasonic sensors are used for distance measurement (e.g., diameter detection, loop control), level or fill-level monitoring (e.g., silo detection), and for positioning and presence detection (e.g., glass pane positioning, film tear detection, glass bottle detection).

Electrical features

Response/decay time	60 ms
Type of analog output	0 - 10V
Type of electrical connection	Connector M12
No-load current	35 mA
Number of pins	4
Relative linearity deviation	0.3 %
Relative repeat accuracy	0.2 %
Sound outlet	axial
Protection class	III
Carrier frequency	300 kHz
Operating voltage (DC)	18 - 30 V
Measuring range	100 - 600 mm
Input function	Synchronization
protection functions	short circuit protection reverse polarity protection

Mechanical features

Design	Cylinder, screw-thread
Thread length	65 mm
Thread pitch	1 mm
Length	104 mm
Degree of protection (IP)	IP67
Housing material	plastic
Thread dimension	M18
Ambient temperature	-15 - 70 °C

Optical features

Angle of beam spread	8 °
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Other features

Operating frequency	300 kHz
Applications	Level sensing

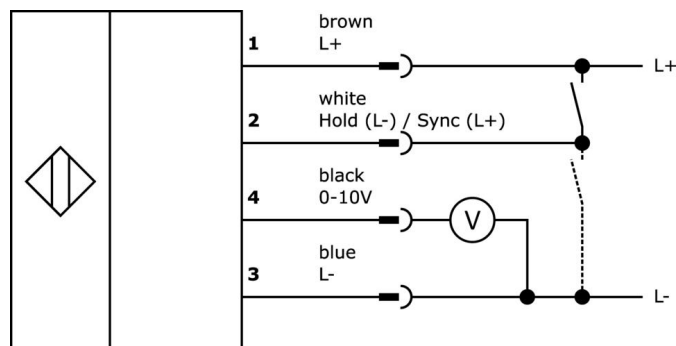
Classification

ETIM 8

More

IPF Product Group	259 ultrasonic sensors (analog)
packaging dimensions	123 x 77 x 25 mm
gross weight	60 g
customs tariff number	85365019
WEEE number	40951076
OzDS-compliant	Yes
POP-compliant	Yes
Reach-compliant	Yes
RoHS-compliant	Yes

Connection



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.