

UY210100

Ultrasonic sensors • Through-beam sensor

sensor ultrasonic, Through-beam sensors, 30x12x20mm, Sn: 300, 18-30V DC, PNP NO (NO), Cable, IP67, Plastic, With LED display



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	1 ms
Display	LED display
Type of switching function	Normally open contact (NO)
Type of electrical connection	Cable
Type of switching output	PNP
Rated switching current	500 mA
Short-circuit protection	Yes
No-load current	40 mA
Sound outlet	Lateral
Switching frequency	150 Hz
Protection class	III
Carrier frequency	300 kHz
Operating voltage (DC)	18 - 30 V
Measuring range	300 mm

Mechanical features

Design	Cuboid
Width	20 mm
Height	30 mm
Length	12 mm
Degree of protection (IP)	IP67
Housing material	Plastic
Ambient temperature	-15 - 60 °C

Other features

Operating frequency	300 kHz
Object detection on conveyor systems	Yes

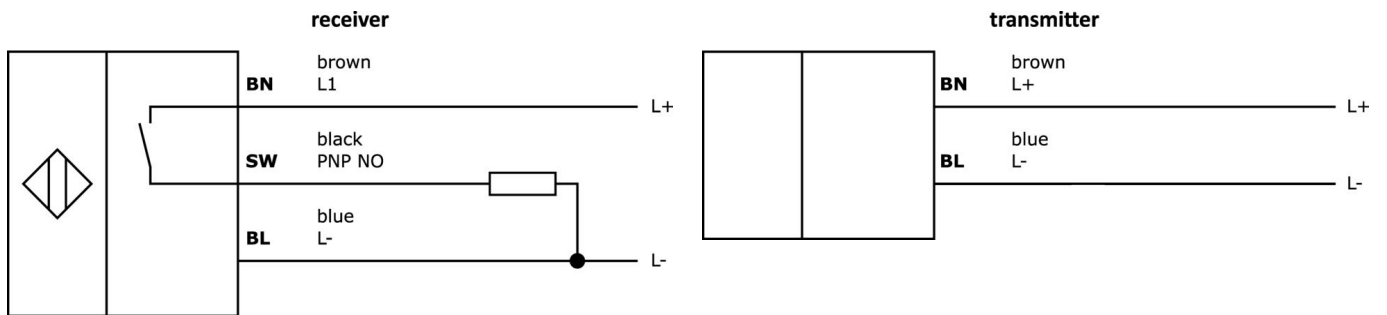
Classification

ETIM 8	EC001847 Ultrasonic one-way barrier
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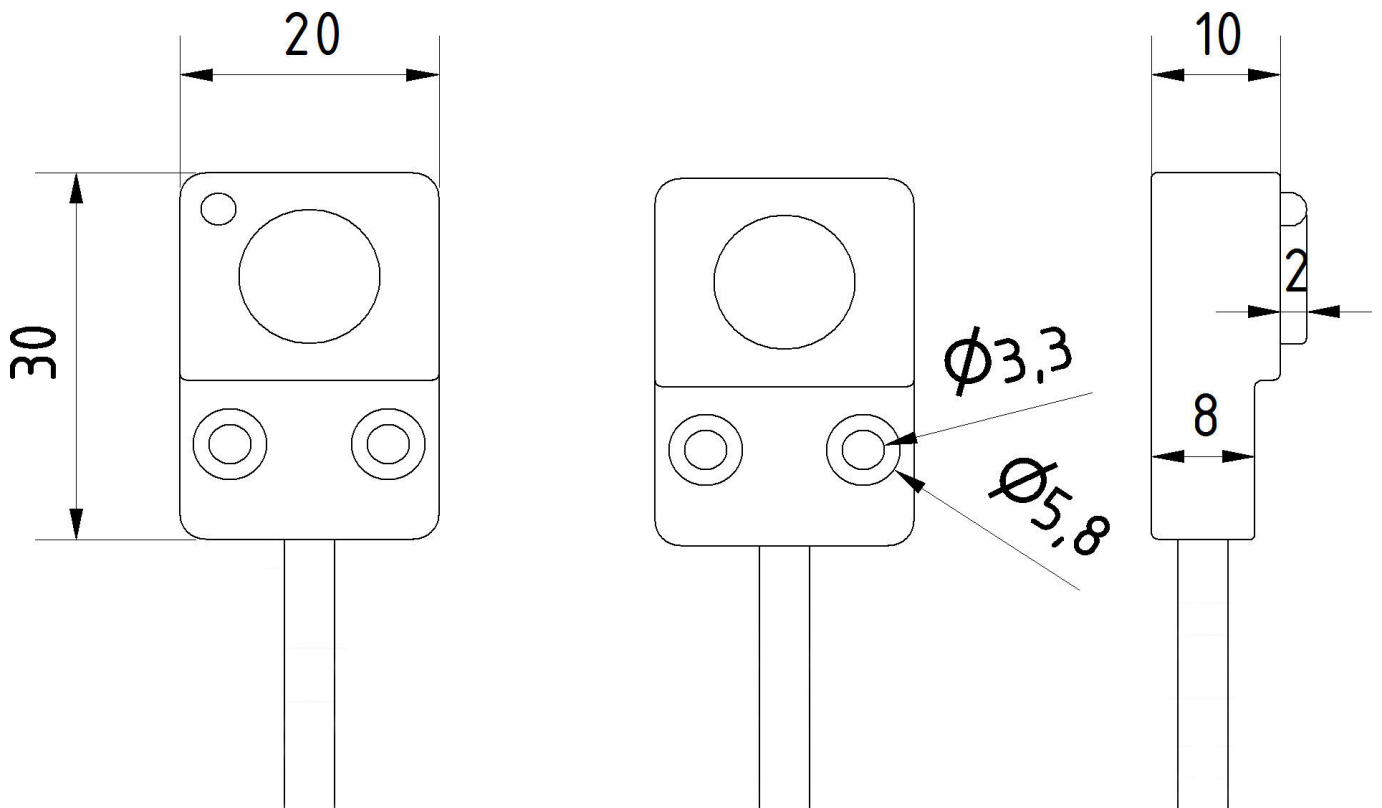
More

IPF Product Group	250 ultrasonic sensors
packaging dimensions	170 x 105 x 55 mm
gross weight	150 g
Customs tariff number	85365019
WEEE number	40951076
OzDS-compliant	Yes
POP-compliant	Yes
Reach-compliant	Yes
RoHS-compliant	Yes

Connection



Dimensional drawing



Installation

Mounting / installation may only be carried out by a qualified electrician!



Disposal

WEEE number according to § 6 para. 3
ElektroG: 40951076

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.