

UT990895

Ultrasonic sensors • Distance measurement

sensor ultrasonic, diffuse-reflection sensor, M30x1.5 138long, Sn: 150-1500, 24V DC, 2x PNP Programmable/configurable, 0-10V, B-connector 8pin, IP65, Stainless steel, Teach-In, With LED display, ultrasonic cone Axial, Synchronization possible

including 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

Number of switching outputs	2
Display	LED display
Resolution	1 mm
Type of switching function	Programmable/configurable
Type of analog output	0 - 10V
Type of electrical connection	B-connector
Type of switching output	PNP
Rated switching current	100 mA
Setting procedure	Teach-In
Short-circuit protection	Yes
Number of pins	8
Relative repeat accuracy	0.4 %
Sound outlet	axial
Switching frequency	60 Hz
Carrier frequency	220 kHz
Reverse polarity protection	Yes
Operating voltage (DC)	24 V
Measuring range	150 - 1500 mm
Input function	Synchronization
ardSOCA_ElektrischerAnschluss	B connector 8-pin
ardSOCA_Betriebsspannung	24VDC

Mechanical features

Design	Cylinder, screw-thread
Thread length	90 mm
Thread pitch	1.5 mm
Length	138 mm
Degree of protection (IP)	IP65
Housing material	Stainless steel
Diameter detection	Yes
Thread dimension	M30
Ambient temperature	0 - 70 °C
ardSOCA_Abmessungen	M30x1.5, 138mm long

Optical features

Angle of beam spread	10 °
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Other features

Operating frequency	220 kHz
Object detection on conveyor systems	Yes
ardTE00_Anwendungen	Niveauabfrage

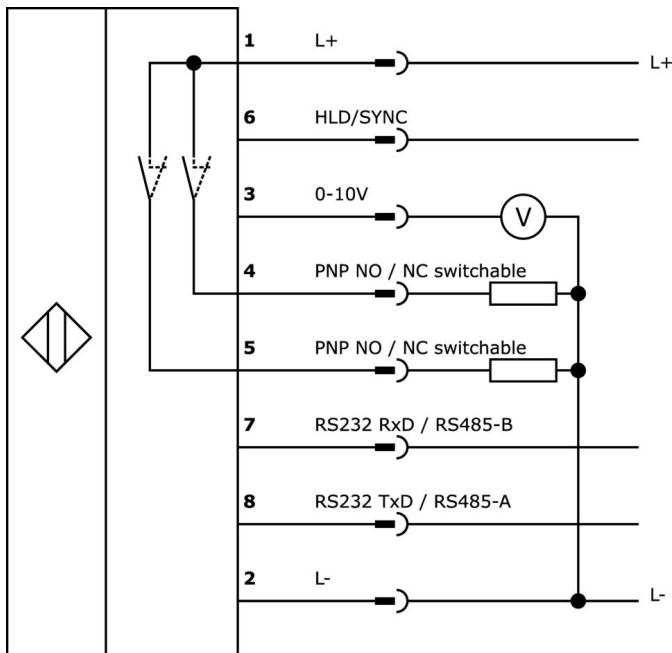
Classification

ETIM 8	EC001849 Ultrasonic probe
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More

IPF Product Group	259 ultrasonic sensors (analog)
packaging dimensions	155 x 105 x 55 mm
gross weight	320 g
Customs tariff number	85365019
WEEE number	40951076
OzDS-compliant	Yes
POP-compliant	Yes
Reach-compliant	Yes
RoHS-compliant	Yes

Connection



Extract accessories program

AY000162



Accessories, magnetic, Ø43mm, neodymium-iron-boron, inside thread M5, rubber

AY000159



accessories sensor, Mounting pipe, Ø12mm 200long, Aluminum Anodised

NG530002



DC power supply, single-phase, 99x114x22mm, 24V, 0.1A, Number of relay outputs 2, 100-264V AC 50Hz, 100-264V AC 60Hz, Screw connection, IP20, Plastic, Stabilized, Output voltage, pulsed

AY000027



accessories, Hexagon nut, M30x1.5, Wrench size 36mm, Brass Nickel-plated

AY000061



accessories sensor, Ø30mm, Plastic, For sensor 30mm, for Wall mounting, Screw mounting

You can find further accessories on our homepage



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.