UT98C454

Ultrasonic sensors ● Distance measurement

sensor ultrasonic, diffuse-reflection sensor, 30x31x65mm, Sn: 60-400, 15-30V DC, 0-10V, Connector M12, IP67, Plastic, Manual adjustment, With LED display, ultrasonic cone Axial

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	60 ms
Display	LED display
Resolution	0.3 mm
Type of analog output	0 - 10V
Type of electrical connection	Connector M12
Setting procedure	Manual adjustment
Short-circuit protection	Yes
No-load current	35 mA
Relative repeat accuracy	0.1 %
Sound outlet	axial
Protection class	III
Temperature drift over entire measuring range	2 %
Carrier frequency	400 kHz
Reverse polarity protection	Yes
Operating voltage (DC)	15 - 30 V
Measuring range	60 - 400 mm

Mechanical features

Design	Cuboid
Width	65 mm
Height	30 mm
Length	31 mm
Degree of protection (IP)	IP67
Housing material	Plastic
Diameter detection	Yes
Ambient temperature	-10 - 60 °C

Other features

Operating frequency	400 kHz
ardTE00_Anwendungen	Niveauabfrage

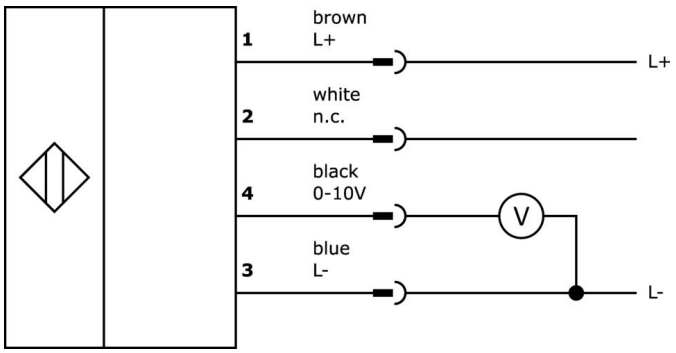
Classification

ETIM 8	EC001846 Ultrasonic distance sensor

More

IPF Product Group	259 ultrasonic sensors (analog)
packaging dimensions	105 x 43 x 43 mm
gross weight	73 g
Customs tariff number	85365019
WEEE number	40951076
OzDS-compliant	Yes
POP-compliant	Yes
Reach-compliant	Yes
RoHS-compliant	Yes

Connection



Extract accessories program

VK003020

Cable socket, angular, self-assembly, screw connection, Ø3-6.5mm, 4A, 240V, -25-90°C, M12 socket 4-pin, IP67, PBT

VK003024

Cable socket, Straight, Suitable for self-assembly, Screw connection, Ø3-6.5mm, 4A, 240V, -25-90°C, M12 Female (socket) 4pin, IP67, PBT

VK000041

Adaption, M12 Female (socket) 4pin Straight, M8 Male (connector) 4pin Straight, 24V, -25-85°C, IP67, Oil and cooling lubricants, Welding area

VK000037

Adaption, M12 Female (socket) 3pin Straight, M8 Male (connector) 3pin Straight, 24V, -25-85°C, IP67, Oil and cooling lubricants, Welding area

VK003021

Cable socket, Angular, Suitable for self-assembly, Screw connection, Ø3-6.5mm, 4A, 60V, -25-90°C, M12 Female (socket) 5pin, IP67, PBT

VK003025

Cable socket, Straight, Suitable for self-assembly, Screw connection, Ø3-6.5mm, 4A, 60V, -25-90°C, M12 Female (socket) 5pin, IP67, PBT

VK200021

Connection cable, 2m, M12 Female (socket) 3pin Angular, Free conductor end, 3x0.34mm², PUR (Polyurethane), Ø4.3mm, 250V, -30-90°C, IP67, Suitable for trailing chain and torsion resistant, Oil and cooling lubricants, Welding area, Silicone-free

VK200025

Connection cable, 2m, M12 Female (socket) 3pin Straight, Free conductor end, 3x0.34mm², PUR (Polyurethane), Ø4.3mm, 250V, -30-90°C, IP67, Suitable for trailing chain and torsion resistant, Oil and cooling lubricants, Welding area, Silicone-free

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.