

UGKB0170

Ultrasonic sensors • Through-beam sensor, fork-shaped

sensor ultrasonic, Fork, 140x13x90mm, Fork width 114mm, 18-30V DC, PNP NO (NO), Connector M8, IP67, Aluminum, 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	1ms
Display	LED display
Type of switching function	Normally open contact (NO)
Type of electrical connection	Connector M8
Type of switching output	PNP
Rated switching current	500mA
No-load current	40mA
Sound outlet	Lateral
Switching frequency	150Hz
Protection class	III
Carrier frequency	300kHz
Operating voltage (DC)	18 - 30V
Measuring range	114mm

Mechanical features

Design	Forked
Width	90mm
Fork width	114mm
Height	140mm
Length	13mm
Degree of protection (IP)	IP67
Housing material	Aluminum
Ambient temperature	-15 - 60°C

Other features

Operating frequency	300kHz
Object detection on conveyor systems	Yes
Ambient temperature	-15 - 60°C
Version	Fork

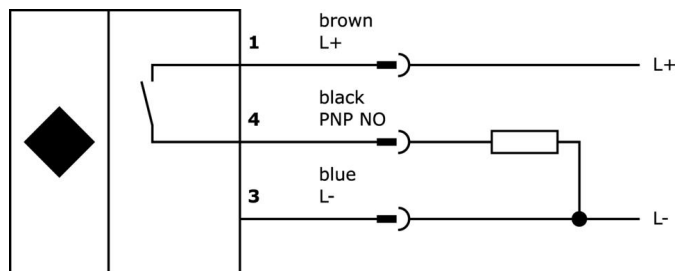
Classification

ETIM 8	EC001847 Ultrasonic one-way barrier
--------	-------------------------------------

More

IPF Product Group	250 ultrasonic sensors
packaging dimensions	173 x 107 x 54 mm
gross weight	170 g
Customs tariff number	85365019
WEEE number	40951076
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.

Dimensional drawing

