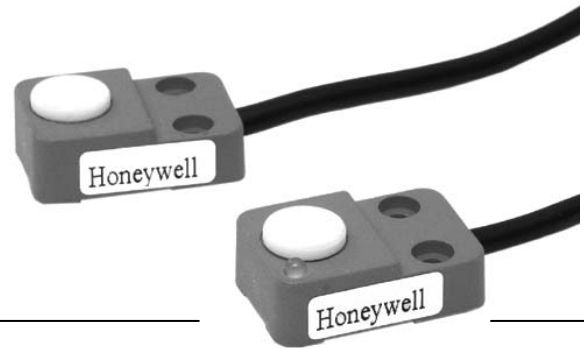


## 948 Series (948-ISY-2D-001/002/003/004-180E)

### Ultrasonic Distance Sensors



#### DESCRIPTION

The 948 Series is one of the smallest ultrasonic scan through devices in the world. Its small, rectangular, IP67-rated plastic housing makes it easy to install in limited space applications. The sensor consists of two parts, a transmitter and a receiver. It is especially suited for food and beverage applications, in particular bottle counting.

#### FEATURES

- Thru-scan detection regardless of the object material for enhanced detection
- Non contact distance sensing for use in non invasive measurement
- Reduced sensitivity to light intensity/reflectivity/opacity of target for enhanced flexibility and certainty of measurement
- Detects over much longer distance than other detection methods reducing the need for close proximity to the target
- Presence absence, tank fill level and diameter measurement provides an extremely robust and flexible measurement method

#### POTENTIAL APPLICATIONS

- Food and beverage machinery and equipment
- Rapid presence/absence detection: bottle counting
- Loop control

# 948 Series (948-ISY-2D-001/002/003/004-180E)

## Specifications

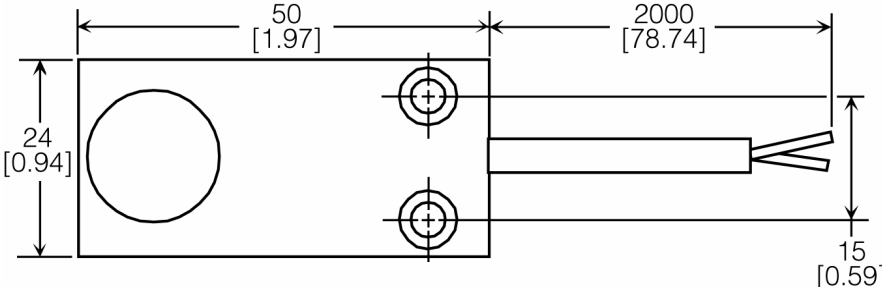
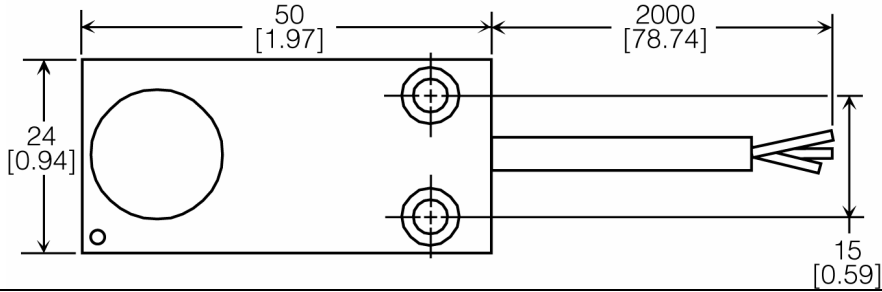
Parameter	948-ISY-2D-001-180E	948-ISY-2D-002-180E	948-ISY-2D-003-180E	948-ISY-2D-004-180E
Sensing distance	1100 mm [3.61 ft]			
Response time on/off	3 ms			
Beam angle	15°			
Output	NO PNP	NO NPN	NC PNP	NC NPN
Expected output current	500 mA			
Switching frequency	150 Hz			
Temperature range	-15 °C to 60 °C [-5 °F to 140 °F]			
Operating voltage	18 Vdc to 30 Vdc			
Expected current consumption	<40 mA			
Housing	plastic			
Sealing	IP67			
Cable connection	2 m [6.56 ft]			

Sensor consists of 2 parts: 1 transmitter and 1 receiver.

With flat targets best results may be achieved with an angle 30° object-ultrasonic beam.

# Ultrasonic Distance Sensors

**Mounting Dimensions (For reference only. mm/[in])**

<p><b>Transmitter</b></p> 	<p>Brown: Vdc Blue: 0 V</p>
<p><b>Receiver</b></p> 	<p>Brown: Vdc Blue: 0 V Black: O/P</p>

## **WARNING**

### **PERSONAL INJURY**

DO NOT USE these products as safety or emergency stop devices or in any other application where failure of the product could result in personal injury.

**Failure to comply with these instructions could result in death or serious injury.**

### **WARRANTY/REMEDY**

Honeywell warrants goods of its manufacture as being free of defective materials and faulty workmanship. Honeywell's standard product warranty applies unless agreed to otherwise by Honeywell in writing; please refer to your order acknowledgement or consult your local sales office for specific warranty details. If warranted goods are returned to Honeywell during the period of coverage, Honeywell will repair or replace, at its option, without charge those items it finds defective. **The foregoing is buyer's sole remedy and is in lieu of all other warranties, expressed or implied, including those of merchantability and fitness for a particular purpose. In no event shall Honeywell be liable for consequential, special, or indirect damages.**

While we provide application assistance personally, through our literature and the Honeywell web site, it is up to the customer to determine the suitability of the product in the application.

Specifications may change without notice. The information we supply is believed to be accurate and reliable as of this printing. However, we assume no responsibility for its use.

## **WARNING**

### **MISUSE OF DOCUMENTATION**

- The information presented in this product sheet is for reference only. Do not use this document as a product installation guide.
- Complete installation, operation, and maintenance information is provided in the instructions supplied with each product.

**Failure to comply with these instructions could result in death or serious injury.**

### **SALES AND SERVICE**

Honeywell serves its customers through a worldwide network of sales offices, representatives and distributors. For application assistance, current specifications, pricing or name of the nearest Authorized Distributor, contact your local sales office or:

**E-mail:** [info.sc@honeywell.com](mailto:info.sc@honeywell.com)

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