

## 943 Series Ultrasonic Distance Sensors

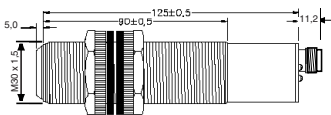
# CE



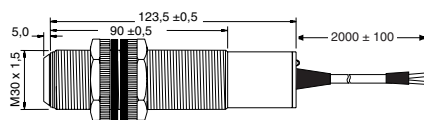
The new 943 series industrial sensors are the latest addition to our product range. They have improved scanning ranges, remote teach in of the switching or analog outputs, as well as new advanced features, such as window and hysteresis modes.

### M30

#### CONNECTOR

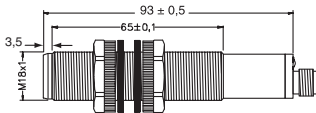


#### CABLE

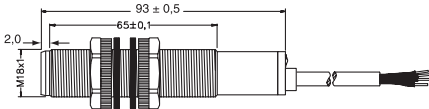


### M18

#### CONNECTOR



#### CABLE



### M18/M30

**Termination:** Connector M12 x 1  
Cable Prelead 2 m

## OPTIONS AND ORDER GUIDE

### 2 switching outputs PNP NO and NPN NO

**Beam angle:** 8°  
**Supply voltage:** 12 to 30 V  
**Sealing:** IP67

### M30

**Housing:** M30 x 1,5 mm plastic (PBTB)  
**Max. sensing distance:** 3500 mm  
**Min. sensing distance:** 300 mm  
**Switching frequency:** 1.0 Hz  
**Repeatability:** 0,2 % or 2 mm

| OUTPUT       | TERMINATION | REFERENCE           |
|--------------|-------------|---------------------|
| PNP, 2 NO/NC | Connector   | 943-T4V-2D-001-130E |
| PNP, 2 NO/NC | Cable       | 943-T4Y-2D-001-130E |
| NPN, 2 NO/NC | Connector   | 943-T4V-2D-002-130E |
| NPN, 2 NO/NC | Cable       | 943-T4Y-2D-002-130E |

### M18

**Housing:** M18 x 1,0 mm plastic (PBTB)  
**Max. sensing distance:** 2000 mm  
**Min. sensing distance:** 200 mm  
**Switching frequency:** 1.2 Hz  
**Repeatability:** 0,2 % or 2 mm

| OUTPUT       | TERMINATION | REFERENCE           |
|--------------|-------------|---------------------|
| PNP, 2 NO/NC | Connector   | 943-F4V-2D-001-180E |
| PNP, 2 NO/NC | Cable       | 943-F4Y-2D-001-180E |
| NPN, 2 NO/NC | Connector   | 943-F4V-2D-002-180E |
| NPN, 2 NO/NC | Cable       | 943-F4Y-2D-002-180E |

**Max. sensing distance:** 800 mm  
**Min. sensing distance:** 100 mm  
**Switching frequency:** 4.7 Hz  
**Repeatability:** 0,2 % or 1 mm

| OUTPUT       | TERMINATION | REFERENCE           |
|--------------|-------------|---------------------|
| PNP, 2 NO/NC | Connector   | 943-F4V-2D-001-300E |
| PNP, 2 NO/NC | Cable       | 943-F4Y-2D-001-300E |
| NPN, 2 NO/NC | Connector   | 943-F4V-2D-002-300E |
| NPN, 2 NO/NC | Cable       | 943-F4Y-2D-002-300E |

**Max. sensing distance:** 500 mm  
**Min. sensing distance:** 60 mm  
**Switching frequency:** 4.7 Hz  
**Repeatability:** 0,2 % or 1 mm

| OUTPUT       | TERMINATION | REFERENCE           |
|--------------|-------------|---------------------|
| PNP, 2 NO/NC | Connector   | 943-F4V-2D-001-330E |
| PNP, 2 NO/NC | Cable       | 943-F4Y-2D-001-330E |
| NPN, 2 NO/NC | Connector   | 943-F4V-2D-002-330E |
| NPN, 2 NO/NC | Cable       | 943-F4Y-2D-002-330E |

### Analogue voltage output 0-10 V and 4-20 mA

**Beam angle:** 8°  
**Supply voltage:** 15 to 30 V  
**Sealing:** IP67

### M30

**Housing:** M30 x 1,5 mm plastic (PBTB)  
**Max. sensing distance:** 3500 mm  
**Min. sensing distance:** 300 mm  
**Response time:** 400 ms  
**Repeatability:** 0,2 % or ±2 mm

| OUTPUT  | TERMINATION | REFERENCE           |
|---------|-------------|---------------------|
| 0-10 V  | Connector   | 943-T4V-2D-1C0-130E |
| 0-10 V  | Cable       | 943-T4Y-2D-1C0-130E |
| 4-10 mA | Connector   | 943-T4V-2D-1D0-130E |
| 4-20 mA | Cable       | 943-T4Y-2D-1D0-130E |

### M18

**Housing:** M18 x 1,0 mm plastic (PBTB)  
**Max. sensing distance:** 2000 mm  
**Min. sensing distance:** 200 mm  
**Switching frequency:** 250 ms  
**Repeatability:** 0,2 % or ±2 mm

| OUTPUT  | TERMINATION | REFERENCE           |
|---------|-------------|---------------------|
| 0-10 V  | Connector   | 943-F4V-2D-1C0-180E |
| 0-10 V  | Cable       | 943-F4Y-2D-1C0-180E |
| 4-10 mA | Connector   | 943-F4V-2D-1D0-180E |
| 4-20 mA | Cable       | 943-F4Y-2D-1D0-180E |

**Max. sensing distance:** 800 mm  
**Min. sensing distance:** 100 mm  
**Switching frequency:** 100 ms  
**Repeatability:** 0,2 % or ±1 mm

| OUTPUT  | TERMINATION | REFERENCE           |
|---------|-------------|---------------------|
| 0-10 V  | Connector   | 943-F4V-2D-1C0-300E |
| 0-10 V  | Cable       | 943-F4Y-2D-1C0-300E |
| 4-10 mA | Connector   | 943-F4V-2D-1D0-300E |
| 4-20 mA | Cable       | 943-F4Y-2D-1D0-300E |

**Max. sensing distance:** 500 mm  
**Min. sensing distance:** 60 mm  
**Switching frequency:** 100 ms  
**Repeatability:** 0,2 % or ±1 mm

| OUTPUT  | TERMINATION | REFERENCE           |
|---------|-------------|---------------------|
| 0-10 V  | Connector   | 943-F4V-2D-1C0-330E |
| 0-10 V  | Cable       | 943-F4Y-2D-1C0-330E |
| 4-10 mA | Connector   | 943-F4V-2D-1D0-330E |
| 4-20 mA | Cable       | 943-F4Y-2D-1D0-330E |



### WARNING

#### MISUSE OF DOCUMENTATION

- The information presented in this product sheet (or catalogue) is for reference only. DO NOT USE this document as product installation information.
  - 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.**



### 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 material and faulty workmanship. Contact your local sales office for warranty information. If warranted goods are returned to Honeywell during that period of coverage, Honeywell will repair or replace 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.**

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 at any time 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.

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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 Authorised Distributor, contact your local sales office or:

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# Honeywell

## Sensing and Control

[www.honeywell.com/sensing](http://www.honeywell.com/sensing)

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