


## 943 Series Ultrasonic Distance Sensors




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.

### OPTIONS AND ORDER GUIDE

#### 2 switching outputs PNP NO and NPN NO

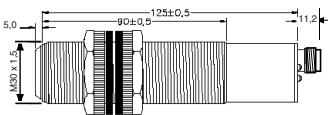
**Beam angle:** 8°  
**Supply voltage:** 12 to 30 V  
**Sealing:** IP67

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

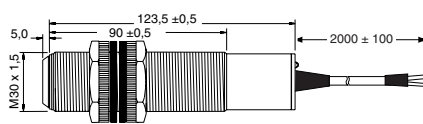
**Beam angle:** 8°  
**Supply voltage:** 15 to 30 V  
**Sealing:** IP67

#### M30

##### CONNECTOR



##### CABLE



#### 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-T4V-2D-001-130E
NPN, 2 NO/NC	Connector	943-T4V-2D-002-130E
NPN, 2 NO/NC	Cable	943-T4V-2D-002-130E

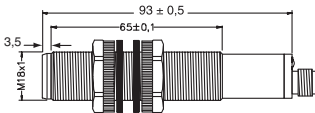
#### M30

**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

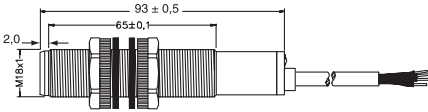
OUTPUT	TERMINATION	REFERENCE
0-10 V	Connector	943-T4V-2D-1C0-130E
0-10 V	Cable	943-T4V-2D-1C0-130E
4-10 mA	Connector	943-T4V-2D-1D0-130E
4-20 mA	Cable	943-T4V-2D-1D0-130E

#### M18

##### CONNECTOR



##### CABLE



#### 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-F4V-2D-001-180E
NPN, 2 NO/NC	Connector	943-F4V-2D-002-180E
NPN, 2 NO/NC	Cable	943-F4V-2D-002-180E

#### 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-F4V-2D-1C0-180E
4-10 mA	Connector	943-F4V-2D-1D0-180E
4-20 mA	Cable	943-F4V-2D-1D0-180E

**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-F4V-2D-001-300E
NPN, 2 NO/NC	Connector	943-F4V-2D-002-300E
NPN, 2 NO/NC	Cable	943-F4V-2D-002-300E

**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-F4V-2D-1C0-300E
4-10 mA	Connector	943-F4V-2D-1D0-300E
4-20 mA	Cable	943-F4V-2D-1D0-300E

#### M18/M30

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

**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-F4V-2D-001-330E
NPN, 2 NO/NC	Connector	943-F4V-2D-002-330E
NPN, 2 NO/NC	Cable	943-F4V-2D-002-330E

**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-F4V-2D-1C0-330E
4-10 mA	Connector	943-F4V-2D-1D0-330E
4-20 mA	Cable	943-F4V-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.**

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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

## Sensing and Control

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