



**THE DATASHEET OF  
SCN-1420SC**



## 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

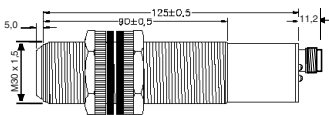
**Beam angle:** 8°  
**Supply voltage:** 12 to 30 V  
**Sealing:** IP67

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

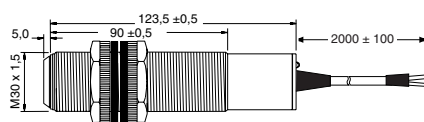
**Beam angle:** 8°  
**Supply voltage:** 15 to 30 V  
**Sealing:** IP67

### 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-T4Y-2D-001-130E
NPN, 2 NO/NC	Connector	943-T4V-2D-002-130E
NPN, 2 NO/NC	Cable	943-T4Y-2D-002-130E

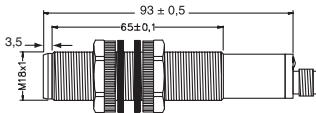
### M30

**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

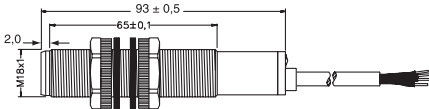
OUTPUT	TERMINATION	REFERENCE
0-10 V	Connector	943-T4V-2D-1C0-130E
0-10 V	Cable	943-T4Y-2D-1C0-130E
4-10 mA	Connector	943-T4V-2D-1D0-130E
4-20 mA	Cable	943-T4Y-2D-1D0-130E

### 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-F4Y-2D-001-180E
NPN, 2 NO/NC	Connector	943-F4V-2D-002-180E
NPN, 2 NO/NC	Cable	943-F4Y-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-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:** 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:** 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

### 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-F4Y-2D-001-330E
NPN, 2 NO/NC	Connector	943-F4V-2D-002-330E
NPN, 2 NO/NC	Cable	943-F4Y-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-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.

## 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 Authorised Distributor, contact your local sales office or:

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

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

## ASIA PACIFIC

### Control Products

#### Asia Pacific Headquarters

Phone: +(65) 6355-2828  
FAX: +(65) 6445-3033

### Australia

Honeywell Limited  
Phone: +(61) 2-9370-4500  
FAX: +(61) 2-9370-4525  
Toll Free 1300-36-39-36  
Toll Free Fax: 1300-36-04-70

### China – PRC – Beijing

Honeywell China Inc.  
Phone: +(86-10) 8458-3280  
FAX: +(86-10) 8458-3102

### China – PRC – Shanghai

Honeywell China Inc.  
Phone: +(86-21) 6237-0237  
FAX: +(86-21) 6237-1237

### China - Hong Kong S.A.R.

Honeywell Ltd.  
Phone: +(852) 2953-6412  
FAX: +(852) 2953-6767

### Indonesia

TATA Honeywell Indonesia Pte Ltd.  
Phone: +(62) 21-535-8833  
FAX: +(62) 21-5367 1008

### India

TATA Honeywell Ltd.  
Phone: +(91) 20 6870 445/446  
FAX: +(91) 20 681 2243/ 687 5992

### Japan

Honeywell Inc  
Phone: +(81) 3 5440 1425  
FAX: +(81) 3 5440 1368

### South Korea

Honeywell Korea Co Ltd  
Phone: +(822) 799-6167  
FAX: +(822) 792-9013

### Malaysia

Honeywell Engineering Sdn Bhd  
Phone: +(60-3) 7958-4988  
FAX: +(60-3) 7958-8922

### New Zealand

Honeywell Limited  
Phone: +(64-9) 623-5050  
FAX: +(64-9) 623-5060  
Toll Free (0800) 202-088

### Philippines

Honeywell Systems  
(Philippines) Inc.  
Phone: +(63-2) 636-1661/1662  
FAX: +(63-2) 638-4013

### Singapore

Honeywell South East Asia  
Phone: +(65) 6355-2828  
FAX: +(65) 6445-3033

### Thailand

Honeywell Systems (Thailand)  
Ltd.  
Phone: +(662) 693-3099  
FAX: +(662) 693-3085

### Taiwan R.O.C.

Honeywell Taiwan Ltd.  
Phone: +(886-2) 2245-1000  
FAX: +(886-2) 2245-3241

## EUROPE

### Austria

Honeywell Austria GmbH  
Phone: +(43) 1 727 80 366/246  
FAX: +(43) 1 727 80 337

### Belgium

Honeywell SA/NV  
Phone: +(32) 2 728 2522  
FAX: +(32) 2 728 2502

### Bulgaria

Honeywell EOOD  
Phone: +(359) 2 979 00 23  
FAX: +(359) 2 979 00 24

### Czech Republic

Honeywell s.r.o.  
Phone: +(420) 242 442 111  
FAX: +(420) 242 442 182

### Denmark

Honeywell A/S  
Phone: +(45) 39 55 55 55  
FAX: +(45) 39 55 55 58

### Finland

Honeywell OY  
Phone: +(358) 9 3480101  
FAX: +(358) 9 34801375

### France

Honeywell SA  
Phone: +(33) 1 60 19 80 40  
FAX: +(33) 1 60 19 81 73

### Germany

Honeywell AG  
Phone: +(49) 69 8064 444  
FAX: +(49) 69 8064 442

### Hungary

Honeywell Kft.  
Phone: +(361) 451 43 00  
FAX: +(361) 451 43 43

### Italy

Honeywell S.p.A.  
Phone: +(39) 02 92146 450/456  
FAX: +(39) 02 92146 490

### The Netherlands

Honeywell B.V.  
Phone: +(31) 20 565 69 11  
FAX: +(31) 20 565 66 00

### Norway

Honeywell A/S  
Phone: +(47) 66 76 20 00  
FAX: +(47) 66 76 20 90

### Poland

Honeywell Sp. zo.o  
Phone: +(48) 606 09 64  
FAX: +(48) 606 09 01

### Portugal

Honeywell Portugal Lda  
Phone: +(351 21) 424 50 00  
FAX: +(351 21) 424 50 99

### Romania

Honeywell Bucharest  
Phone: +(40) 21 231 64 37/38  
FAX: +(40) 21 231 64 39

### Commonwealth of Independent States (CIS)

Z.A.O. Honeywell  
Phone: +(7 095) 796 98 36  
FAX: +(7 095) 797 99 06

### Slovak Republic

Honeywell s.r.o.  
Phone: +(421 2) 58 247 403  
FAX: +(421 2) 58 247 415

### South Africa (Republic of)

Honeywell Southern Africa  
Honeywell S.A. Pty. Ltd  
Phone: +(27) 11 695 8000  
FAX +(27) 11 805 1504

### Spain

Honeywell S.A.  
Phone: +(34) 91 313 6100  
FAX: +(34) 91 313 6129

### Sweden

Honeywell AB  
Phone: +(46) 8 775 55 00  
FAX: +(46) 8 775 56 00

### Switzerland

Honeywell AG  
Phone: +(41) 1 855 24 40  
FAX: +(41) 1 855 24 45

### Turkey

Honeywell Turkey A.S.  
Phone: +(90) 216 5756620  
FAX: +(90) 216 5756637

### Ukraine

Honeywell  
Phone: +(380) 44 201 44 74  
FAX: +(380) 44 201 44 75

### United Kingdom

Honeywell Control Systems  
Ltd  
Phone: +(44) 1698 481481  
FAX: +(44) 1698 481676

### Mediterranean & African Distributors

Honeywell SpA  
Phone: +(39) 2 921 46 232  
FAX: +(39) 2 921 46 233

### Middle East Headquarters

Honeywell Middle East Ltd.  
Phone: +(9712) 443 2119  
FAX +(9712) 443 2536

## NORTH AMERICA

### USA/Canada

Honeywell  
Sensing and Control  
Phone: 1-800-537-6945  
1-815-235-6847  
FAX: 1-815-235-6545  
E-mail:  
[info.sc@honeywell.com](mailto:info.sc@honeywell.com)

## LATIN AMERICA

### Honeywell Latin America Headquarters

Phone: 1-305-805-8188  
FAX: 1-305-883-8257

### Argentina

Honeywell S.A.I.C.  
Phone: +(54-11) 4383-3627  
FAX: +(54-11) 4325-6470

### Brazil

Honeywell Do Brasil & Cia  
Phone: +(55-11) 4166-1900  
FAX: +(55-11) 4166-1901

### Chile

Honeywell Chile, S.A.  
Phone: +(56-2) 425-8400  
FAX: +(56-2) 425-8410

### Mexico

Honeywell S.A. de C.V.  
Phone: +(52) 55 5081-0200  
FAX: +(52) 55 5081-0202

### Puerto Rico, Caribbean

Honeywell Inc.  
Phone: +(787) 792-7075  
FAX: +(787) 792-0053

### Venezuela

Honeywell C.A.  
Phone: +(58-212) 273-0511  
FAX: +(58-212) 273-0599

This publication does not constitute a contract between Honeywell and its customers. The contents may be changed at any time without notice. It is the customer's responsibility to ensure safe installation and operation of the products. Detailed mounting drawings of all products illustrated are available on request. Copyright 2004 Honeywell International Inc. All Rights Reserved.

# Honeywell

## Sensing and Control

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

Honeywell Control Systems Ltd  
Newhouse Industrial Estate  
Motherwell, Lanarkshire ML1 5SB  
Scotland, UK

## Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

- ⊖ [View SCN-1420SC on WIN SOURCE](#)
- ⊖ [Honeywell Information](#)

## Optimize Your Supply Chain with WIN SOURCE Solutions

- ✓ Global Sourcing Solution
- ✓ Obsolete Management
- ✓ Cost Control Management
- ✓ Shortage Management
- ✓ Alternative Solution
- ✓ Excess Inventory Management