

943 Series Ultrasonic Distance Sensors

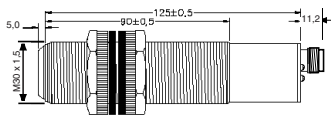
CE



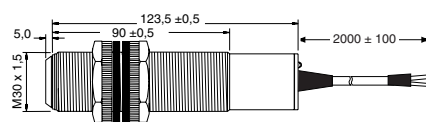
The new 943 series industrial sensors are the latest addition to our product range. They have improved scanning ranges, remote teach in of the switching or analog outputs, as well as new advanced features, such as window and hysteresis modes.

M30

CONNECTOR

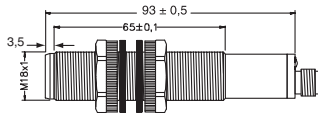


CABLE

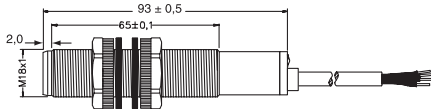


M18

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.

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

E-mail: 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

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 spol. 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 6439

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

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

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) 55 5081-8400

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

Honeywell Control Systems Ltd

Newhouse Industrial Estate

Motherwell, Lanarkshire ML1 5SB

Scotland, UK