

Honeywell



Representative photograph, actual product appearance may vary.

Due to regional agency approval requirements, some products may not be available in your area. Please contact your regional Honeywell office regarding your product of choice.

940-F4Y-2D-001-300E

Series 940-F/947, 600 mm [24.0 in] scan distance, Plastic M18, Prewired 2 m, switching output PNP, adjustment potentiometer

Features

- Maximum scan ranges from 0,6 m to 3,0 m
- Plastic housing M18 (for 0,6 and 1,5 m models), M30 (for 3,5 m models)
- Chemical-resistant epoxy heads
- High sealing IP67
- Pre-leaded 2,0 m or M12 connector models
- Synchronising/hold input: To avoid mutual interference from several sensors, they are very simply synchronised by connecting their synchronising/hold input (pin 4) together. If the measure needs to be stopped, connect the synchronising/hold input to the ground; the output stays stable.
- Adjustment by potentiometer
- Micro-processor controlled
- Temperature compensation

Typical Applications

- Bottle counting
- Food processing machinery
- Filling machinery
- Crop handling machinery
- Ground flatness detection for vehicles

Description

The 940/947 series are industrial controls performing distance measurement by using an ultrasonic beam. They are the easiest to use, provide unprecedented ultrasonic power in a very small package, can solve very difficult applications for a reasonable price. They provide one switching output (PNP or NPN open collector.)

The powerful ultrasonic beam detects even targets with bad ultrasonic characteristics (angled, soft, absorbent, pulverulent). The High-sealing IP67, plastic housing, and the epoxy head provide excellent resistance in aggressive environments like Food and Beverage or raw materials processing factories. The small package (M18 or M30) allows mounting in narrow places. Adjustment is simply performed by a potentiometer.

Prewired and connector models (M12) are available.

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Product Specifications	
Sensing Range	100 mm to 600 mm [4.0 in to 24.0 in]
Range Type	Short range < 1,0 m [39.0 in]
Beam Angle	8°
Oscillating Frequency	300 KHz
Integrated Temperature Compensation	Yes
Repeatability	0.2 % ± 1,0 mm [0.039 in]
Output Type	Switching 1 x PNP
Switching Output Type	Normally Open (N.O.)
Response Time	30 ms (target moving < 1 m/s)
Response Time (Target Present/Absent)	200 ms
Max. Switching Frequency	25 Hz
Adjustment Method	Potentiometer
Maximum Output Current	500 mA
Hysteresis	0.02
Indicators	1 LED
Additional Inputs/Outputs	Hold/Synchronisation
Storage Temperature	-25 °C to 85 °C [-13 °F to 185 °F]
Supply Voltage	19 Vdc to 30 Vdc
Current Consumption	35 mA maximum
Circuit Protection	Reverse Polarity, voltage spikes on supply and output lines, short circuit on switching output
Housing Style	M18 plastic
Housing Material	Polyethylenterephthalat
Sealing	IP 67
Mounting	2 x M18 plastic nuts 24 mm
Sensing Face Material	Epoxy
Termination Type	Pre-wired 2 m [78.74]
Availability	Global
Series	940-F/947 Series
Operating Temperature	-15 °C to 70 °C [5 °F to 158 °F]
UNSPSC Code	41111926
UNSPSC Commodity	41111926 Proximity sensors

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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.

WARNING

MISUSE OF DOCUMENTATION

- The information presented in this product sheet (or catalog) 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.

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