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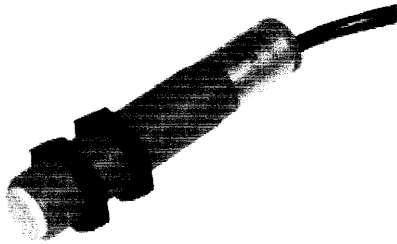
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940-F4Y-2D-002-180E

Series 940/947, 1.5 m scan distance, Plastic M18 switching output NPN, adjustment potentiometer



Representative photograph, actual product appearance may vary.

- [Installation Instructions - Multiple Languages](#)
- [Accessory: power supply](#)
- [Accessory: Beam deflectors and mounting clamp](#)
- [Specifications](#)

Features

- Maximum scan ranges from 0,6 m to 3 m
- Plastic housing M18 (for 0,6 and 1,5 m models),
- Chemical-resistant epoxy heads
- High sealing IP67
- Pre-leaded 2m or M12 connector models
- Synchronising/hold input: To avoid mutual interference between sensors, they are very simply synchronised by connecting the synchronising/hold input (pin 4) together. If the sensor is stopped, connect the synchronising/hold input to ground so that 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 level detection by using an ultrasonic beam. They are the easiest to use and provide unprecedented ultrasonic power in a very small package for difficult applications for a reasonable price. They provide switching output (PNP or NPN open collector.)

The powerful ultrasonic beam detects even targets with difficult characteristics (angled, soft, absorbent, pulverulent). The plastic housing, and the epoxy head provide excellent performance in aggressive environments like Food and Beverage or raw material factories. The small package (M18 or M30) allows mounting in tight places. Adjustment is simply performed by a potentiometer.

Prewired and connector models (M12) are available.

Product Specifications	
Sensing Range	200 mm to 1500 mm [8 in to 59 in]
Range Type	Middle range 1 m to 2 m [39 in to 79 in]
Beam Angle	8°
Oscillating Frequency	180 KHz
Integrated Temperature Compensation	Yes
Repeatability	0.2 % ± 1 mm
Output Type	Switching 1 x NPN
Switching Output Type	NO
Response Time	60 ms (target moving < 1 m/s)
Response Time (Target Present/Absent)	300 ms
Max. Switching Frequency	8 Hz
Adjustment Method	Potentiometer
Maximum Output Current	500 mA
Hysteresis	2 %
Indicators	1 LED
Additional Inputs/Outputs	Hold/Synchronisation
Storage Temperature	-25 °C to 85 °C
Supply Voltage	19 Vdc to 30 Vdc
Current Consumption	35 mA maximum
Circuit Protection	Reverse Polarity, voltage spikes on supply and output line circuit on switching output
Housing Style	M18 plastic
Housing Material	Polyethylenterephtalat
Sealing	IP 67
Mounting	2 x M18 plastic nuts 24 mm
Sensing Face Material	Epoxy
Termination Type	Pre-wired 2 m
Availability	Global
Series	940 Series
Operating Temperature	-15 °C to 70 °C

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