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941-D4V-2D-002-180E



Actual product appearance may vary.

Series 941 -D, Limit switch style, 2000 mm [79.0 in] scan distance, Connector M12, 5 pin, two switching outputs NPN, teach in feature, IP67

Features

- Limit switch style sensor
- Plastic Housing
- Teach in
- Sealing to IP67
- M12 connector, 5 pin
- Synchronizing/hold input: To avoid mutual interference from several sensors, they are very simply synchronised by connecting their synchronizing/hold input (pin 4) together. If the measure needs to be stopped, connect the synchronizing/hold input to the ground; the output stays stable.
- Two switch point adjustment via teach in sequence
- Temperature compensation






Potential Applications

- Presence detection
- Applications with restricted space
- Slitter and rewinder machines
- Cranes
- Loop control

Description

The 941-D Series are industrial controls that perform distance measurement by using an ultrasonic beam. They provide all highend sensor features in a limit switch style housing. The sensor may be mounted in applications where space is a premium. Maximum scan range is 3,5 m [11.48 ft]. The 941-D comes with four output options; Analog (0 Vdc to 10 Vdc and 4 mA to 20 mA) and 2 PNP or 2 NPN switching outputs.

Supporting Documentation

- [Dimensions](#)
- [Installation Instructions](#) - [Electrical Connections](#)
- [Accessories: Standard or Angled Connector](#)
- [Accessory: Standard or Angled Connector with 2 m \[78.8 in\] Cable](#)

Product Specifications	
Sensing Range	200 mm to 2000 mm [8.0 in to 79.0 in]
Range Type	Middle range 1,0 m to 2,0 m [39.0 in to 79.0 in]
Min. Sensing Distance of Test Target	200 mm [8.0 in]
Supply Voltage	12 Vdc to 30 Vdc
Beam Angle	8°
Oscillating Frequency	180 KHz
Integrated Temperature Compensation	Yes
Repeatability	± 0.2 %, ± 2,0 mm [0.079 in]
Output Type	Switching 2 x NPN
Switching Output Type	2 Outputs - Configure for Normally Open/Normally Closed
Max. Switching Frequency	5 Hz
Adjustment Method	Teach - in
Analog Output Slope Selection	Teach - in
Operating Temperature Range	- 15 °C to 70 °C [5 °F to 158 °F]
Storage Temperature	- 25 °C to 70 °C [- 13 °F to 158 °F]
Maximum Output Current	500 mA
Hysteresis	0.01
Indicators	4 LED
Memory	EEPROM (non - volatile)
Current Consumption	< 80 mA
Circuit Protection	Reverse Polarity, voltage spikes on supply and output lines, short circuit on switching output
Housing Style	Limit Switch style
Housing Material	Polyethylenterephtalat
Sealing	IP67
Mounting	3 holes
Sensing Face Material	Epoxy
Termination Type	Connector
Connector Type	M12, 5 pin (female connector not included)
Availability	Global
Normally Open/Normally Closed selection	Teach - in
UNSPSC Code	41111926
UNSPSC Commodity	41111926 Proximity sensors
Series Name	941 - D

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All Sensing and Control

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