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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 - Multiple Languages](#)
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- [▾ 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	Polyethylenterephthalat
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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