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### 941-D4V-2D-002-300E



Actual product appearance may vary.

**Series 941 -D, Limit switch style, 800 mm [31.4 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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Product Specifications	
Sensing Range	100 mm to 800 mm [4.0 in to 31.4]
Range Type	Short range < 1,0 m [39.0 in]
Min. Sensing Distance of Test Target	100 mm [4.0 in]
Supply Voltage	12 Vdc to 30 Vdc
Beam Angle	8°
Oscillating Frequency	300 KHz
Integrated Temperature Compensation	Yes
Repeatability	± 0.2 %, ± 1,0 mm [0.039 in]
Output Type	Switching 2 x NPN
Switching Output Type	2 Outputs - Configure for Normally Open/Normally Closed
Max. Switching Frequency	10 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	Polyethyleneterephthalat
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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