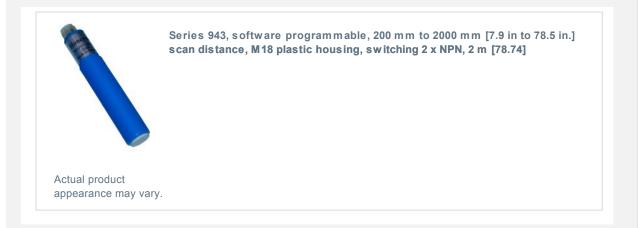


943-F4Y-2D-002-180E

(Home: Products: Sensors: Position Sensors: Ultrasonic Sensors: 943)



Sensing Range200 mm to 2000 mm [7.9 in to 78.5 in.]Range TypeMiddle range 1,0 m to 2,0 m [39.0 in to 79.0 in]Min. Sensing Distance of Test Target200 mm [7.87]Supply Voltage12 Vdc to 30 VdcBeam Angle8"Oscillating Frequency180 KHzIntegrated Temperature CompensationVesRepeatability0.2 %/2 mmOutput TypeSwitching 2 x NPNSwitching Output Type2 Outputs - Configure for Normally Open/Normally ClosedMax. Switching Frequency1.2 HzAdjustment MethodTeach-inAnalog Output Slope SelectionTeach-inOperating Temperature Solo mA50° C to 70° C [5 °F to 158 °F]Maximum Output Current50° mAHysteresis0.01Indicators3 LEDMemoryEEPROM (non-volatile)Current Consumption< 80 mACircuit Protection Switching OutputReverse Polarity, voltage spikes on supply and output lines, short circuit on switching outputHousing StyleM18 plasticHousing Material SealingPo/yethylenterephtalatSealingF67Mounting2 x M18 plastic nuts 24 mmSensing Face MaterialEpoxyTermination TypePre-wired 2 m [78.74]		Product Specifications
Min. Sensing Distance of Test Target200 mm [7.87]Supply Voltage12 Vdc to 30 VdcBeam Angle8°Oscillating Frequency180 KHzIntegrated Temperature CompensationYesRepeatability0.2 %/2 mmOutput TypeSw itching 2 x NPNSw itching Output Type2 Outputs - Configure for Normally Open/Normally ClosedMax. Sw itching Frequency1.2 HzAdjustment MethodTeach-inAnalog Output Slope SelectionTeach-inOperating Temperature Storage Temperature-25 °C to 70 °C [5 °F to 158 °F]Storage Temperature Storage Temperature-25 °C to 70 °C [5 °F to 158 °F]Maximum Output Current Boo mA500 mAHysteresis Indicators0.011Indicators3 LEDMemoryEEPROM (non-volatile)Current Consumption< 80 mACircuit Protection sw itching outputReverse Polarity, voltage spikes on supply and output lines, short circuit on sw itching outputHousing StyleM18 plasticHousing Material SealingPolyethylenterephtalatSealingP67Mounting2 x M18 plastic nuts 24 mmSensing Face MaterialEpoxyTermination TypePre-w ired 2 m [78.74]	Sensing Range	
Target200 mm [7.87]Supply Voltage12 Vdc to 30 VdcBeam Angle8°Oscillating Frequency180 KHzIntegrated Temperature CompensationYesRepeatability0.2 %/2 mmOutput TypeSw itching 2 x NFNSw itching Output Type2 Outputs - Configure for Normally Open/Normally ClosedMax. Sw itching Frequency1.2 HzAdjustment MethodTeach-inAnalog Output Slope SelectionTeach-inOperating Temperature Storage Temperature-15 °C to 70 °C [5 °F to 158 °F]Storage Temperature Indicators0.01Indicators3 LEDMemoryEEPROM (non-volatile)Current Consumption< 80 mA	Range Type	Middle range 1,0 m to 2,0 m [39.0 in to 79.0 in]
Beam Angle8°Beam Angle8°Oscillating Frequency180 KHzIntegrated Temperature CompensationYesRepeatability0.2 %/2 mmOutput TypeSw itching 2 x NPNSw itching Output Type2 Outputs - Configure for Normally Open/Normally ClosedMax. Sw itching Frequency1.2 HzAdjustment MethodTeach-inAnalog Output Slope SelectionTeach-inOperating Temperature-15 °C to 70 °C [5 °F to 158 °F]Storage Temperature500 mAHysteresis0.01Indicators3 LEDMemoryEEPROM (non-volatile)Current Consumption< 80 mA	Min. Sensing Distance of Test Target	200 mm [7.87]
ConclusionConclusionOscillating Frequency180 KHzIntegrated Temperature CompensationYesRepeatability0.2 %/2 mmOutput TypeSw itching 2 x NPNSw itching Output Type2 Outputs - Configure for Normally Open/Normally ClosedMax. Sw itching Frequency1.2 HzAdjustment MethodTeach-inAnalog Output Slope SelectionTeach-inOperating Temperature-15 °C to 70 °C [5 °F to 158 °F]Storage Temperature-25 °C to 70 °C [-13 °F to 158 °F]Maximum Output Current500 mAHysteresis0.01Indicators3 LEDMemoryEEPROM (non-volatile)Current Consumption< 80 mA	Supply Voltage	12 Vdc to 30 Vdc
Integrated Temperature CompensationYesRepeatability0.2 %/2 mmOutput TypeSw itching 2 x NPNSw itching Output Type2 Outputs - Configure for Normally Open/Normally ClosedSw itching Frequency1.2 HzAdjustment MethodTeach-inAnalog Output Slope SelectionTeach-inAnalog Output Slope SelectionTeach-inStorage Temperature-15 °C to 70 °C [-13 °F to 158 °F]Storage Temperature500 mAHysteresis0.01Indicators3 LEDMemoryEEPROM (non-volatile)Current Consumption< 80 mA	Beam Angle	8°
CompensationYesRepeatability0.2 %/2 mmOutput TypeSw itching 2 x NPNSw itching Output Type2 Outputs - Configure for Normally Open/Normally ClosedMax. Sw itching Frequency1.2 HzAdjustment MethodTeach-inAnalog Output Slope SelectionTeach-inOperating Temperature-15 °C to 70 °C [5 °F to 158 °F]Storage Temperature-25 °C to 70 °C [-13 °F to 158 °F]Maximum Output Current500 mAHysteresis0.01Indicators3 LEDMemoryEEPROM (non-volatile)Current Consumption< 80 mA	Oscillating Frequency	180 KHz
Durburt TypeSwitching 2 x NPNSwitching Output Type2 Outputs - Configure for Normally Open/Normally ClosedMax. Switching Frequency1.2 HzAdjustment MethodTeach-inAnalog Output Slope SelectionTeach-inOperating Temperature-15 °C to 70 °C [5 °F to 158 °F]Operating Temperature-25 °C to 70 °C [-13 °F to 158 °F]Storage Temperature500 mAHysteresis0.01Indicators3 LEDMemoryEEPROM (non-volatile)Current Consumption< 80 mA	Integrated Temperature Compensation	Yes
Switching Output Type2 Outputs - Configure for Normally Open/Normally ClosedMax. Switching Frequency1.2 HzAdjustment MethodTeach-inAnalog Output Slope SelectionTeach-inOperating Temperature-15 °C to 70 °C [5 °F to 158 °F]Storage Temperature-25 °C to 70 °C [-13 °F to 158 °F]Maximum Output Current500 mAHysteresis0.01Indicators3 LEDMemoryEEPROM (non-volatile)Current Consumption<80 mA	Repeatability	0.2 %/2 mm
Max. Sw itching Frequency1.2 HzAdjustment MethodTeach-inAnalog Output Slope SelectionTeach-inOperating Temperature-15 °C to 70 °C [5 °F to 158 °F]Operating Temperature-25 °C to 70 °C [-13 °F to 158 °F]Storage Temperature-25 °C to 70 °C [-13 °F to 158 °F]Maximum Output Current500 mAHysteresis0.01Indicators3 LEDMemoryEEPROM (non-volatile)Current Consumption< 80 mA	Output Type	Switching 2 x NPN
Adjustment MethodTeach-inAnalog Output Slope SelectionTeach-inOperating Temperature-15 °C to 70 °C [5 °F to 158 °F]Storage Temperature-25 °C to 70 °C [-13 °F to 158 °F]Maximum Output Current500 mAHysteresis0.01Indicators3 LEDMemoryEEPROM (non-volatile)Current Consumption<80 mA	Switching Output Type	2 Outputs - Configure for Normally Open/Normally Closed
Analog Output Slope SelectionTeach-inOperating Temperature-15 °C to 70 °C [5 °F to 158 °F]Storage Temperature-25 °C to 70 °C [-13 °F to 158 °F]Maximum Output Current500 mAHysteresis0.01Indicators3 LEDMemoryEEPROM (non-volatile)Current Consumption< 80 mA	Max. Sw itching Frequency	1.2 Hz
Operating Temperature-15 °C to 70 °C [5 °F to 158 °F]Storage Temperature-25 °C to 70 °C [-13 °F to 158 °F]Maximum Output Current500 mAHysteresis0.01Indicators3 LEDMemoryEEPROM (non-volatile)Current Consumption< 80 mA	Adjustment Method	Teach-in
Storage Temperature-25 °C to 70 °C [-13 °F to 158 °F]Maximum Output Current500 mAHysteresis0.01Indicators3 LEDMemoryEEPROM (non-volatile)Current Consumption< 80 mA	Analog Output Slope Selection	Teach-in
Maximum Output Current500 mAHysteresis0.01Indicators3 LEDMemoryEEPROM (non-volatile)Current Consumption< 80 mA	Operating Temperature	-15 °C to 70 °C [5 °F to 158 °F]
Hysteresis0.01Indicators3 LEDMemoryEEPROM (non-volatile)Current Consumption< 80 mA	Storage Temperature	-25 °C to 70 °C [-13 °F to 158 °F]
Indicators3 LEDMemoryEEPROM (non-volatile)Current Consumption< 80 mA	Maximum Output Current	500 mA
MemoryEEPROM (non-volatile)Current Consumption< 80 mA	Hysteresis	0.01
Current Consumption< 80 mACircuit ProtectionReverse Polarity, voltage spikes on supply and output lines, short circuit on switching outputHousing StyleM18 plasticHousing MaterialPolyethylenterephtalatSealingIP67Mounting2 x M18 plastic nuts 24 mmSensing Face MaterialEpoxyTermination TypePre-wired 2 m [78.74]	Indicators	3 LED
Circuit ProtectionReverse Polarity, voltage spikes on supply and output lines, short circuit on switching outputHousing StyleM18 plasticHousing MaterialPolyethylenterephtalatSealingIP67Mounting2 x M18 plastic nuts 24 mmSensing Face MaterialEpoxyTermination TypePre-wired 2 m [78.74]	Memory	EEPROM (non-volatile)
Sw itching outputHousing StyleM18 plasticHousing MaterialPolyethylenterephtalatSealingIP67Mounting2 x M18 plastic nuts 24 mmSensing Face MaterialEpoxyTermination TypePre-w ired 2 m [78.74]	Current Consumption	< 80 mA
Housing MaterialPolyethylenterephtalatSealingIP67Mounting2 x M18 plastic nuts 24 mmSensing Face MaterialEpoxyTermination TypePre-w ired 2 m [78.74]	Circuit Protection	Reverse Polarity, voltage spikes on supply and output lines, short circuit on sw itching output
Sealing IP67 Mounting 2 x M18 plastic nuts 24 mm Sensing Face Material Epoxy Termination Type Pre-w ired 2 m [78.74]	Housing Style	M18 plastic
Mounting 2 x M18 plastic nuts 24 mm Sensing Face Material Epoxy Termination Type Pre-w ired 2 m [78.74]	Housing Material	Polyethylenterephtalat
Sensing Face Material Epoxy Termination Type Pre-w ired 2 m [78.74]	Sealing	IP67
Termination Type Pre-w ired 2 m [78.74]	Mounting	2 x M18 plastic nuts 24 mm
	Sensing Face Material	Ероху
Availability Global	Termination Type	Pre-w ired 2 m [78.74]
	Availability	Global

	Product Specifications	
Normally Open/Normally Closed selection	Teach-in	
UNSPSC Code	41111960	
UNSPSC Commodity	41111960 Ultrasonic sensor	
Series Name	943	

Mouser Electronics

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