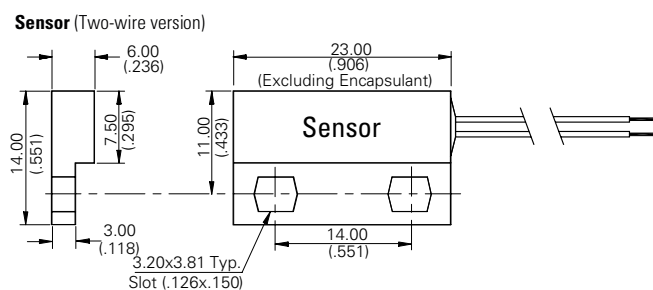




Tolerances are +/- 0.25 (0.010) unless otherwise noted.



Schematics	Switch Type
 White White	1

Note: Contact Littelfuse for specific agency approval ratings.

59143 Series

Miniature Flange Mount Sensor

Electrical Ratings

Contact Type			Normally Open
Switch Type			1
Contact Rating ¹		VA/Watt - max.	10
Voltage ⁴	Switching ²	Vdc - max.	200
		Vac - max.	140
	Breakdown ³	Vdc - min.	250
Current ⁴	Switching ²	Adc - max.	0.5
		Aac - max.	0.35
	Carry	Adc - max.	1.2
Resistance ⁵	Contact, Initial Insulation	Ω - max.	0.2
		Ω - min.	10 ¹⁰
Capacitance	Contact	pF - typ.	0.3
Temperature	Operating	°C	-40 to +105

Product Characteristics

Operate Time ⁶		ms - max.	1.0
Release Time ⁶		ms - max.	1.0
Shock ⁷	11ms ½ sine	G - max.	100
Vibration ⁷	50–2000 Hz	G - max.	30

Notes:

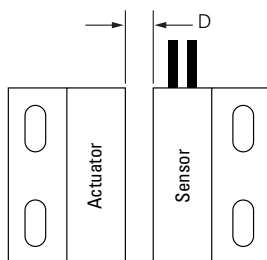
- Contact rating - Product of the switching voltage and current should never exceed the wattage rating. Contact Littelfuse for additional load/life information.
- When switching inductive and/or capacitive loads, the effects of transient voltages and/or currents should be considered. Refer to Application Notes AN108A and AN107 for details.
- Breakdown Voltage - per MIL-STD-202, Method 301.
- Electrical Load Life Expectancy - Contact Littelfuse with voltage, current values along with type of load.
- This resistance value is for 300 mm wire length. Resistance changes when wire lengthens.
- Operate (including bounce)/Release Time - per EIA/NARM RS-421-A, diode suppressed coil (Coil II).
- Shock and Vibration - per EIA/NARM RS-421-A and MIL-STD-202.
- For custom modifications to the wire length or size, or adding a special connector, please contact Littelfuse.

Sensitivity Options (Using 57140 Actuator)

Select Option		S			T		
Switch Type		Pull-In AT Range	Activation Distance (mm)	Deactivation Distance (mm)	Pull-In AT Range	Activation Distance (mm)	Deactivation Distance (mm)
1	Normally Open	12–18	9–16	10–17	17–23	7–15	9–17

Notes:

- Pull-In AT Range: These AT values are the bare reed switch AT before modification.
- The activation distance is average value on the final sensor assembly.



59143 Series

Miniature Flange Mount Sensor

Cable Length Specification

Cable Type: 24 AWG 7/32 PVC 105°C UL1430/UL1569		
Select Option	Cable Length mm (inch)	Cable Color
02	300 +/-10.00 (11.81 +/- 0.394)	White
05	1000+/-10.00 (39.37+/- 0.394)	White

Termination Specification

Termination Options		
Select Option	Description (Two-wire versions illustrated)	
A	Tinned leads (6.4±0.76)mm	

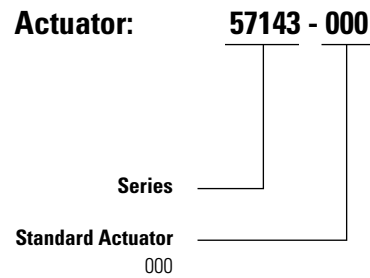
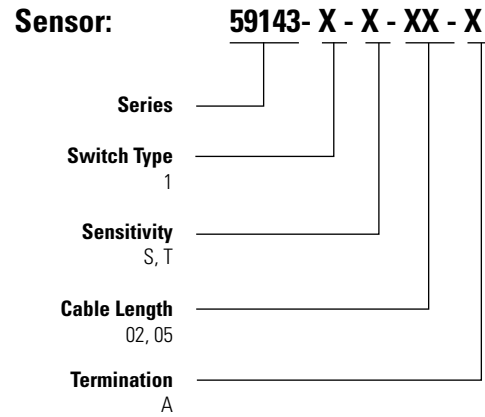
Material Specification

	Housing Material	Color	Sealing Component
57143 Actuator	20% GF P.B.T	White	Epoxy
59143 Sensor	20% GF P.B.T	White	Epoxy

Packaging

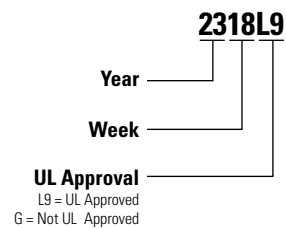
Cable Length	Packaging Option	Quantity
02	Bulk	500
05	Bulk	500

Part Numbering System



Note: The 57140 Actuator is sold separately.

Data Code System



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