

59166 Miniature Overmolded Reed Switch + 57045 Actuator

Electrical Ratings

Contact Type			Normally Open
Switch Type			1
Contact Rating ¹		VA/Watt - max.	10
Voltage ³	Switching ²	Vdc - max.	200
		Vac - max.	140
	Breakdown ⁴	Vdc - min.	250
Current ³	Switching ²	Adc - max.	0.5
		Aac - max.	0.35
	Carry	Adc - max.	0.8
Resistance	Contact, Initial Insulation	Ω - max. Ω - min.	0.2 10 ¹⁰
Capacitance	Contact	pF - typ.	0.3
Temperature	Operating	°C	-40 to +105

Product Characteristics

Operate Time ⁵		ms - max.	1.0
Release Time ⁵		ms - max.	1.0
Shock ⁶	11ms ½ sine	G - max.	100
Vibration ⁶	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.
- Electrical Load Life Expectancy - Contact Littelfuse with voltage, current values along with type of load.
- Breakdown Voltage - per MIL-STD-202, Method 301.
- 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.

Sensitivity Options (Using 57045 Actuator)

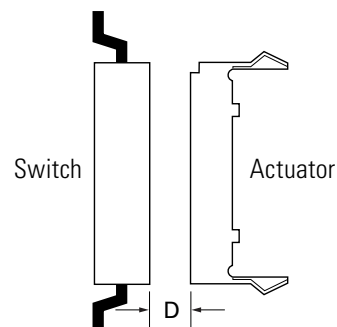
Select Option		S		T		U	
Switch Type		Pull-In AT Range	Activate Distance, D mm (inch) Average	Pull-In AT Range	Activate Distance, D mm (inch) Average	Pull-In AT Range	Activate Distance, D mm (inch) Average
1	Normally Open	10-15	7.4 (.292)	15-20	6.1 (.240)	20-25	5.1 (.201)

Note:

- Pull-In AT Range: These AT values are the before molding and modification AT of the 59166.
- The activation distance is average value post modification for the Gull wing option C or D.

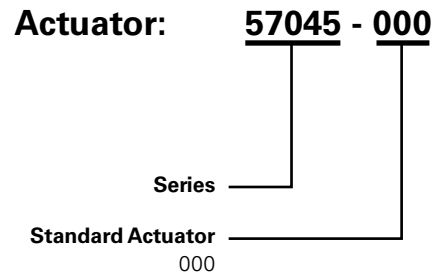
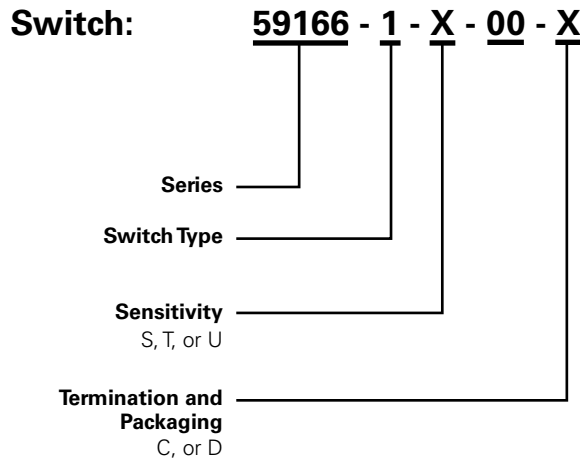
Termination Specification

Termination Options	
Select Option	Description
C	Gull Wing bulk packed
D	Gull Wing tape and reel



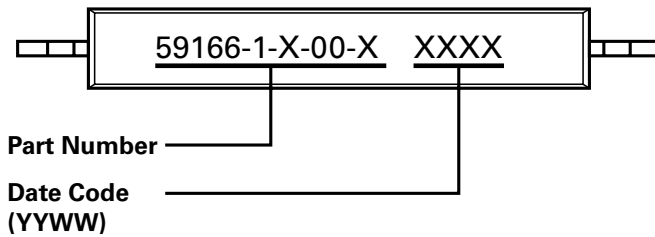
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Part Numbering System



Note: The 57045 Actuator is sold separately.

Product Marking



Packaging

Packaging Option	Packaging Specification	Quantity	Quantity and Packaging Code	Taping Width
Bulk	Bulk	1500	B	N/A
Tape and Reel	EIA-RS-481-1	1500	R	32.00/(1.260)

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