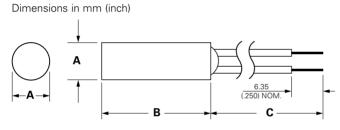


59020 Miniature Firecracker Reed Sensor + 57020 Actuator



Dimensions



	A Nom.	B Nom.	C Nom.
57020 Actuator	5.10 (.201)	15.24 (.600)	-
59020 Sensor	5.10 (.201)	15.24 (.600)	300 (11.81)± 10.00 (.393)

Description

The 59020 Firecracker Reed Sensor is a miniature cylindrical reed sensor 15.24mm x 5.10mm (0.600" x 0.201") with a normally open contact. It is capable of switching up to 170Vdc at 10W. It has a variety of cable lengths and connector options. It functions best with the 57020-000 actuator.

Note: The 57020 Actuator is sold separately.

Features

- Magnetically operated proximity sensor
- Normally open contact

Benefits

 Hermetically sealed, magnetically operated contacts continue to operate long after optical and other technologies fail due to contamination

Applications

- Position and Limit Sensing
- Security Systems

- Customer defined sensitivity option
- Choice of cable length and connector
- Quick and easy to install
- No standby power requirement
 Operates through non-ferrous materials such as wood, plastic or aluminium
- Level Sensing
- Linear Actuators

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59020 Miniature Firecracker Reed Sensor + 57020 Actuator

Electrical Ratings

Contact Type			Normally Open	
Switch Type			1	
Contact Rating ¹		VA/Watt - max.	10	
Voltage 4	Switching ² Breakdown ³	Vdc - max. Vdc - min.	170 175	
Current ⁴	Switching ² Carry	Adc - max. Adc - max.	0.25 0.5	
Resistance ⁵	Contact, Initial Insulation	Ω - max. Ω - min.	0.2 10 ¹⁰	
Capacitance	Contact	pF - typ.	0.2	
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: 1. Contact rating - Product of the switching voltage and current should never exceed the wattage rating. Contact Littlefuse for additional load/life information.

2. 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. 3. Breakdown Voltage - per MIL-STD-202, Method 301.

4. Electrical Load Life Expectancy - Contact Littelfuse with voltage, current values along with type of load.

5. This resistance value is for 11.81mm wire length. Resistance changes when wire lengthens

6. Operate (including bounce)/Release Time - per EIA/NARM RS-421-A, diode suppressed coil (Coil II).

7. Shock and Vibration - per EIA/NARM RS-421-A and MIL-STD-202.

8. For custom modifications to the wire length or size, or adding a special connector, please contact Littelfuse

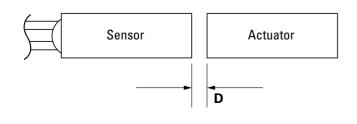
Sensitivity Options (Using 57020 Actuator)

Select Option		S		
	Switch Type	Pull-In AT Range	Activate Distance – D mm (inch) Average	
1	Normally Open	6-10	6.0 (.236)	

Note:

1. Pull-In AT Range: These AT values are the bare reed switch AT before modification.

2. The activation distance is average value on the final sensor assembly.





59020 Miniature Firecracker Reed Sensor + 57020 Actuator

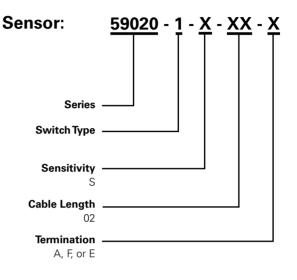
Cable Length Specification

Part	Num	bering	System
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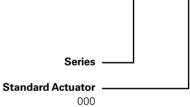
Cable Type: 24 AWG 7/32 PVC 105°C UL1430/UL1569		
Select Option	Cable Length mm (inch)	
02	300 (11.81)	

Termination Specification

Termination Options			
Select Option	Description (Two-wire versions illustrated)		
А	Tinned leads (6.4±0.76)mm		
F	Untinned leads (6.4±0.76)mm		
E	JST type XHP 2.5mm pitch		



Actuator: <u>57020</u> - <u>000</u>



Note: The 57020 Actuator is sold separately.

Packaging

Packaging Option	Packaging Specification	Quantity	Quantity & Packaging Code	Taping Width
Bulk	Bulk	500	N/A	N/A

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