

Agency Approvals

| Agency | Agency File Number |
| :---: | :---: |
| c-1 us | E61760 |

Note: Contact Littelfuse for specific agency approval ratings.

## Dimensions

Dimensions in mm (inch)


## Description

The 59030 is a miniature cylindrical reed sensor $38.1 \mathrm{~mm}(\mathrm{~L}) \times 6.22 \mathrm{~mm}$ (Dia) $\left(1.50\right.$ " $\left.\times 0.245^{\prime \prime}\right)$ with a choice of normally open, normally closed, and change -over contacts. It is capable of switching up to $265 \mathrm{Vac} / 300 \mathrm{Vdc}$ at 10 VA . It functions best with the 57030-000 actuator.

Note: The 57030 Actuator is sold separately.

## Features

- Two-part magnetically operated proximity sensor
- Hermetically sealed contacts
- Operates through non-ferrous materials such as wood, plastic or aluminum


## Benefits

- Well suited for usage in highmoisture and contaminated environments
- Non-contact solution, aesthetically more appealing than push-button or lever mechanical-type switches


## Applications

- Position and Limit Sensing
- Security Systems
- Level Sensing
- Customer defined sensitivity option
- Choice of cable length and connector
- Ideal for battery-powered applications as the contacts do not draw power when in the nonactivated state
- Reed contacts last for millions of operating cycles under microcontroller logic level loads
- Linear Actuators


## 59030 Miniature Firecracker Reed Sensor +57030 Actuator

## Electrical Ratings



## Product Characteristics

| Operate Time ${ }^{6}$ |  | $\mathrm{~ms}-\max$. | 1.0 | 1.0 | 3.0 |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| Release Time ${ }^{6}$ |  | $\mathrm{~ms}-\max$. | 1.0 | 1.0 | 3.0 |
| Shock ${ }^{7}$ | $11 \mathrm{~ms} 1 / 2$ sine | G-max. | 100 | 100 | 50 |
| Vibration $^{7}$ | $50-2000 \mathrm{~Hz}$ | G-max. | 30 | 30 | 30 |

Notes:

1. Contact rating - Product of the switching voltage and current should never exceed the wattage rating. Contact Littelfuse 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 11.81 mm 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 57030 Actuator)



Expertise Applied | Answers Delivered

## 59030 Miniature Firecracker Reed Sensor + 57030 Actuator

Cable Length Specification


Termination Specification

| Termination Options |  |  |
| :---: | :---: | :---: |
| Select Option | Description <br> (Two-wire versions illustrated) |  |
| A | Tinned leads ( $6.4 \pm 0.76$ )mm | $\square$ |
| F | Untinned leads ( $6.4 \pm 0.76$ )mm | $\longrightarrow-$ |
| E | JST type XHP 2.5 mm pitch |  |

Part Numbering System


A, E, or F


Note: The 57030 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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