

Agency Approvals


Note: Contact Littelfuse for specific agency approval ratings.

## Dimensions

Dimensions in mm (inch)


## Soldering Footprint

Dimensions in mm (inch)


59165 Miniature Overmolded Reed Switch +57045 Actuator

Electrical Ratings

| Contact Type |  |  | Normally Open |
| :---: | :---: | :---: | :---: |
| Switch Type |  |  | 1 |
| Contact Rating ${ }^{1}$ |  | VAMWatt - max. | 10 |
| Voltage ${ }^{3}$ | Switching ${ }^{2}$ <br> Breakdown ${ }^{4}$ | Vdc - max. <br> Vac - max. <br> Vdc-min. | $\begin{aligned} & 200 \\ & 140 \\ & 250 \end{aligned}$ |
| Current ${ }^{3}$ | Switching ${ }^{2}$ <br> Carry | Adc - max. <br> Aac - max. <br> Adc - max. | $\begin{gathered} 0.5 \\ 0.35 \\ 0.8 \end{gathered}$ |
| Resistance | Contact, Initial Insulation | $\begin{aligned} & \Omega-\max . \\ & \Omega-\min . \end{aligned}$ | $\begin{aligned} & 0.2 \\ & 10^{10} \end{aligned}$ |
| Capacitance | Contact | pF - typ. | 0.3 |
| Temperature | Operating | ${ }^{\circ} \mathrm{C}$ | -40 to +105 |

## Product Characteristics

| Operate Time $^{5}$ |  | ms - max. | 1.0 |
| :--- | :---: | :---: | :---: |
| Release Time ${ }^{5}$ |  | ms - max. | 1.0 |
| Shock ${ }^{6}$ | $11 \mathrm{~ms}^{1 / 2}$ sine | G-max. | 100 |
| Vibration ${ }^{6}$ | $50-2000 \mathrm{~Hz}$ | $\mathrm{G}-\max$. | 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. Electrical Load Life Expectancy - Contact Littelfuse with voltage, current values along with type of load.
4. Breakdown Voltage - per MIL-STD-202, Method 301.
5. Operate (including bounce)/Release Time - per EIA/NARM RS-421-A, diode suppressed coil (Coil II).
6. Shock and Vibration - per EIA/NARM RS-421-A and MIL-STD-202.

Sensitivity Options (Using 57045 Actuator)

| Select Option |  | S |  | T |  | $\mathbf{U}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | witch 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:

1. Pull-In AT Range: These AT values are the before molding and modification AT of the 59165.
2. The activation distance is average value post modification for the Gull wing option C or D.

## Termination Specification

| Termination Options |  |
| :---: | :---: |
| Select Option | Description |
| A | Leaded |
| B | Staple form |
| C | Gull Wing bulk packed |
| D | Gull Wing tape and reel |



## 59165 Miniature Overmolded Reed Switch +57045 Actuator

## Part Numbering System



Product Marking


Packaging

| Packaging Option | Packaging Specification | Quantity | Quantity and Packaging Code | Taping Width |
| :---: | :---: | :---: | :---: | :---: |
| Bulk | Bulk | $800 / \mathrm{box}$ | $59165-1-\mathrm{X}-00-\mathrm{A}$ | $\mathrm{N} / \mathrm{A}$ |
| Bulk | Bulk | $1500 / \mathrm{box}$ | $59165-1-\mathrm{X}-00-\mathrm{C}$ | $\mathrm{N} / \mathrm{A}$ |
| Tape and Reel | EIA-RS-481-1 | 1500 | R | $32.00 /(1.260)$ |

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