

# DRR-129 50.8mm Close-Differential Reed Switch



## Description

The DRR-129 Reed Switch is a standard, normally open switch with a 50.80mm long x 5.25mm diameter (2.000" x .207") glass envelope, capable of high voltage and power switching up to 400Vdc at 100W. Will carry 6A and switch 3A. It has high insulation resistance of 10<sup>10</sup> ohms minimum and contact resistance of less than 100 milli-ohms.

## Features

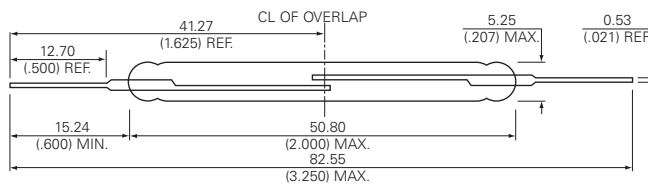
- Normally open switch
- Capable of switching 400Vdc or 3.0A at up to 100W
- Minimum voltage breakdown 600Vdc
- Available sensitivity range 42-83 AT

## Agency Approvals

| Agency | Agency File Number  | Ampere-Turns Range |
|--------|---------------------|--------------------|
|        | E47258<br>E471070   | 42-83 AT           |
|        | DEMKO 14 ATEX 1393U | 42-83 AT           |

## Dimensions

Dimensions in mm (inch)



## Benefits

- Hermetically sealed switch contacts are not affected by and have no effect on their external environment
- Capable of switching European mains voltage
- Zero operating power required for contact closure

## Applications

- Security
- Limit switching
- Industrial safety applications

## Switch Type

|              |   |
|--------------|---|
| Contact Form | A (SPST-NO)                                 |
| Materials    | Body: Glass<br>Leads: Tin-plated Ni-Fe wire |

Note: SPST-NO = Single-pole, single-throw, normally open

## Electrical Ratings

|                             |                                |                          |                           |
|-----------------------------|--------------------------------|--------------------------|---------------------------|
| Contact Rating <sup>1</sup> |                                | W/VA - max.              | 100                       |
| Voltage <sup>3</sup>        | Switching <sup>2</sup>         | Vdc - max.               | 400                       |
|                             | Breakdown <sup>4</sup>         | Vac - max.<br>Vdc - min. | 280<br>600                |
| Current <sup>3</sup>        | Switching <sup>2</sup>         | Adc - max.               | 3.0                       |
|                             | Carry                          | Aac - max.<br>Adc - max. | 2.1<br>6.0                |
| Resistance                  | Contact, Initial Insulation    | Ω - max.<br>Ω - min.     | 0.100<br>10 <sup>10</sup> |
| Capacitance                 | Contact                        | pF - typ.                | 0.6                       |
| Temperature                 | Operating Storage <sup>5</sup> | °C                       | -40 to +125               |
|                             |                                | °C                       | -65 to +125               |

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. Storage Temperature - Long time exposure at elevated temperature may degrade solderability of the leads

# DRR-129 50.8mm Close-Differential Reed Switch

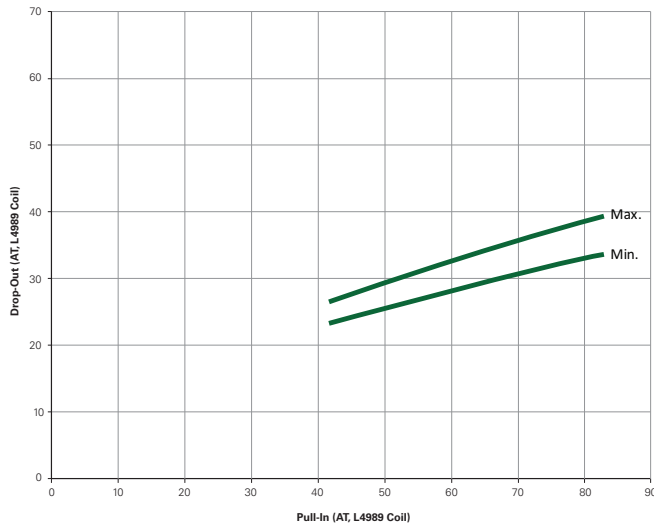
## Product Characteristics

| Operating Characteristics       |                    |              |
|---------------------------------|--------------------|--------------|
| Operate Time <sup>1</sup>       |                    | 4.5ms - max. |
| Release Time <sup>1</sup>       |                    | 2.5ms - max. |
| Shock <sup>2</sup>              | 11ms 1/2 sine wave | 100G - max.  |
| Vibration <sup>2</sup>          | 50-2000 Hertz      | 30G - max.   |
| Resonant Frequency              | Hz - typ.          | 850Hz - typ. |
| Magnetic Characteristics        |                    |              |
| Pull-In Range <sup>3</sup>      | Ampere Turns       | 42-83        |
| Rating Sensitivity <sup>4</sup> | Ampere Turns       | 60           |
| Test Coil                       |                    | L4988        |

**Notes:**

- 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.
- Pull-In Range - Contact Littelfuse for narrower AT ranges available.
- Rating Sensitivity - The value at which contact ratings and operating characteristics are determined. Derating may be required below this value.
- Custom modifications of forming and/or cutting of reed switches are available. Please contact Littelfuse.

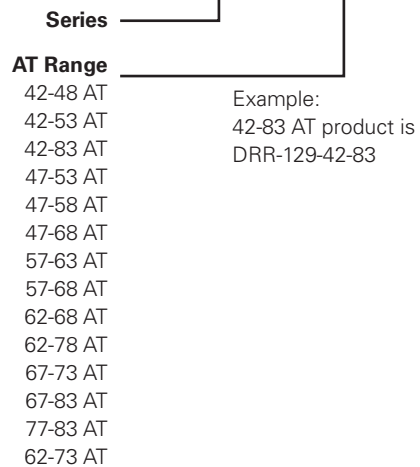
## Drop-Out vs. Pull-In Chart



Note: Chart represents the range of Drop-Out, min to max for a given Pull-In value.

## Part Numbering System

**DRR-129-42-83**



Note: These AT values are the before-modification values of the bare reed switch.

## Additional Information



**Datasheet**



**Resources**



**Samples**

## Packaging

| Packaging Option | Packaging Specification | Quantity | Quantity & Packaging Code | Taping Width |
|------------------|-------------------------|----------|---------------------------|--------------|
| Bulk             | Bulk                    | 1000     | N/A                       | N/A          |

单击下面可查看定价，库存，交付和生命周期等信息

[>>Littelfuse\(美国力特\)](#)