

# MVSR-20

## 19.7mm Reed Switch



### Description

The MVSR-20 reed switch is a miniature, normally open switch with a 19.69mm long x 2.66mm diameter (0.775" x 0.105") glass envelope, capable of high voltage switching of up to 1kVdc at 1mA. It has high insulation resistance of 10<sup>12</sup> ohms minimum and contact resistance less than 100 milli-ohms.

### Features and Benefits

- Miniature normally open switch
- Capable of switching 1000Vdc at 1mA or 0.5A up to 10W
- Minimum voltage breakdown 2000 Vdc
- Available sensitivity range 17-38 AT
- Hermetically sealed switch contacts are not affected by and have no effect on their external environment
- Zero operating power required for contact closure

### Agency Approvals

Agency	Agency File Number	Ampere-Turns Range
	E67006	17-38 AT

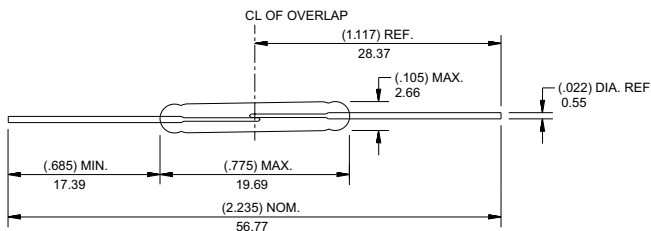
**Note:** Contact Littelfuse for specific agency approval ratings.

### Applications

- Reed relays (particularly suitable for high voltage breakdown applications)
- Security
- Limit switching
- Telecoms line switching
- Industrial equipment

### Dimensions

Dimensions in mm (inch)



### Switch Type

<b>Contact Form</b>	A (SPST-NO)
<b>Materials</b>	Body: Glass
	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.	10
Voltage <sup>3</sup>	Switching <sup>2</sup> Breakdown <sup>4</sup>	Vdc - max.	1000
		Vac - max.	265
		Vdc - min.	2000
Current <sup>3</sup>	Switching <sup>2</sup> Carry	Adc - max.	0.50
		Aac - max.	0.35
		Adc - max.	1.30
Capacitance	Contact	pF - typ.	0.2
Resistance	Contact, Initial Insulation	Ω - max.	0.100
		Ω - min.	10 <sup>12</sup>
Temperature	Operating	°C	-75 to +125
	Storage <sup>5</sup>		

**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.

