

MISM-3V1 7mm Surface Mount Reed Switch



· Capable of switching 170 Vdc or

0.25A up to 10W

• Excellent for switching microcontroller logic level loads

Very low space requirement

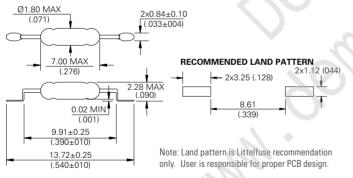


Agency Approvals

Agency	Agency File Number	Ampere-Turns Range	
c FN [®] us	E47258 E471070	6-10AT	
Æx>	DEMKO 14 ATEX 1393U	6-10 AT	

Dimensions

Dimensions in mm



Electrical Ratings

Description

The MISM-3V1 surface mount reed switch is a sub-miniature, normally open switch with a 7mm long x 1.8mm diameter ($0.276'' \times 0.071''$) glass envelope, capable of switching up to 0.25 Amps.

This reed switch is a surface mount version of the MITI-3V1. It has a high insulation resistance of 10^{12} Ohms minimum and a contact resistance of less than 100 milliohms.

Features

- Ultra-miniature surface mount normally open switch
- Available sensitivity range 6-10 AT

Benefits

- Hermetically sealed switch contacts are not effected by and have no effect on their external environment
- Zero operating power required for contact closure

Applications

- Position Sensing
- Level Sensing
- Meter Equipment
- Security
- Office Equipment

Switch Type Contact Form A (SPST-NO) Materials Body: Glass Leads: Tin-plated Ni-Fe wire

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

Contact Rating ¹		W/VA - max.	10
Voltage ³	Switching ² Breakdown ⁴	Vdc - max. Vac - max. Vdc - min.	170 120 175
Current ³	Switching ² Carry	Adc - max. Aac - max. Adc - max.	0.25 0.18 0.50
Resistance	Contact, Initial Insulation	Ω - max. Ω - min.	0.150 10 ¹²
Capacitance	Contact	pF - typ.	0.3
Temperature	Operating Storage ⁵	°C ℃	-40 to +125 -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.



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Product Characteristics

Operating Characteristics						
Operate Time ¹		0.45ms - max.				
Release Time ¹		0.20ms - max.				
Shock ²	11ms 1/2 sine wave	150G - max.				
Vibration ²	50-2000 Hertz	30G - max.				
Resonant Frequency		18.0kHz - typ.				
Magnetic Characteristics						
Pull-In Range ³	Ampere Turns	6-10				
Rating Sensitivity ⁴	Ampere Turns	10				
Test Coil		L4991				

Notes:

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

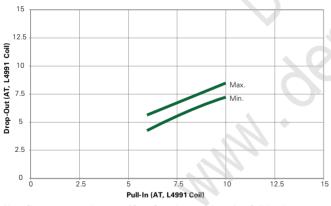
2. Shock and Vibration - per EIA/NARM RS-421-A and MIL-STD-202.

3. Pull-In Range - Contact Littelfuse for narrower AT ranges available. These AT values are the before modification AT of the MITI-3V1.

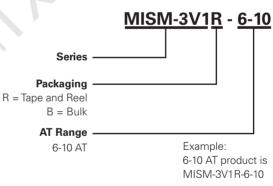
4. Rating Sensitivity - The value at which contact ratings and operating characteristics are determined. Derating may be required below this value.

Drop-Out vs. Pull In Chart

Part Numbering System



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



Note: This AT value is the before-modification value of the bare reed switch.

Packaging

Packaging Option	Packaging Specification	Quantity	Quantity and Packaging Code	Taping Width
Tape and Reel	EIA-RS-481-1	3000	R	32mm



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TAPE DIMENSIONS mm (inch)

