

MDCG-4 15.3mm Sub-miniature Reed Switch





Description

The MDCG-4 Reed Switch is a sub-miniature, normally open switch with a 15.24mm long x 2.28mm diameter (0.600" x 0.090") glass envelope, capable of switching 200Vdc at 10W. It has high insulation resistance of 10¹⁰ ohms minimum and contact resistance less than 100 milli-ohms. This reed switch is also available in a surface mount version, that is, MDSM-4.

Features

- Sub-miniature normally open switch
- · Available sensitivity 12-38 AT
- · Capable of switching 200Vdc or 0.5A at up to 10W

Agency Approvals

Agency	Agency File Number	Ampere-Turns Range
c FU °us	E47258 E471070	12-38 AT

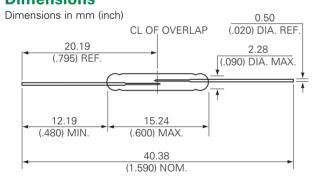
Note: Contact Littelfuse for specific agency approval ratings.

Benefits

· Hermetically sealed switch contacts are not affected by and have no effect on their external environment

- · Zero operating power required for contact closure
- · Excellent for switching microcontroller logic level loads

Dimensions



Applications

- Reed Relays
- Security
- · Limit Switching
- · Level Sensing
- · Office Equipment
- · Industrial Control

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

Electrical Ratings

Contact Rating ¹		W/VA - max.	10
Voltage ³	Switching ² Breakdown ⁴	Vdc - max. Vac - max. Vdc - min.	200 140 250
Current ³	Switching ² Carry	Adc - max. Aac - max. Adc - max.	0.50 0.35 1.20
Resistance	Contact, Initial Insulation	Ω - max. Ω - min.	0.100 10 ¹⁰
Capacitance	Contact	pF - typ.	0.2
Temperature	Operating Storage 5	°C °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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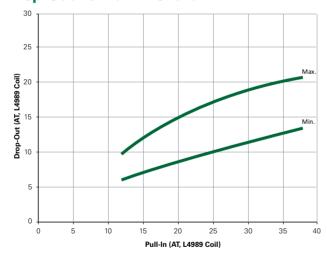
Product Characteristics

Operating Characteristics					
Operate Time ¹		0.6ms - max.			
Release Time ¹		0.2ms - max.			
Shock ²	11ms 1/2 sine wave	100G - max.			
Vibration ²	50-2000 Hertz	30G - max.			
Resonant Frequency		3.9kHz - typ.			
Magnetic Characteristics					
Pull-In Range ³	Ampere Turns	12-38			
Rating Sensitivity ⁴	Ampere Turns	20			
Test Coil		L4989			

Notes:

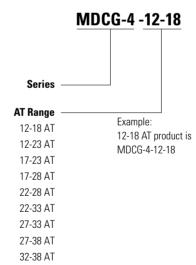
- 1. Operate (including bounce)/Release Time per EIA/NARM RS-421-A, diode suppressed coil (Coil II).
- 2. Shock and Vibration per EIA/NARM RS-421-A and MIL-STD-202.
- 3. Pull-In Range Contact Littelfuse for narrower AT ranges available.
- 4. Rating Sensitivity The value at which contact ratings and operating characteristics are determined. Derating may be required below this value.
- 5. 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



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

Packaging

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

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