

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

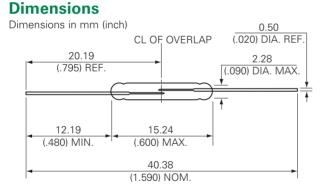
Agency Approvals

Agency	Agency File Number	Ampere-Turns Range
c FU °us	E47258 E471070	12-38 AT
€x>	DEMKO 14 ATEX 1393U	12-38 AT

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



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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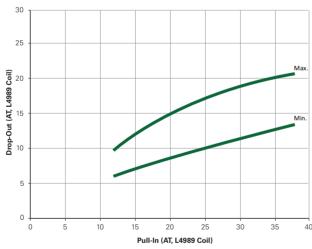
Product Characteristics

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:

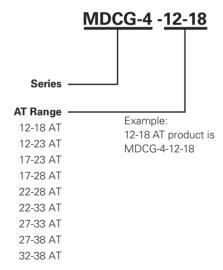
- 1. Operate (including bounce)/Release Time per EIA/NARM RS-421-A,diode suppressed coil (Coil II).
- 2. Shock and Vibration per EIA/NARM RS-421-A and MIL-STD-202.
- 3. Pull-In Range Contact Littelfuse for narrower AT ranges available.
- 4. Rating Sensitivity The value at which contact ratings and operating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

Additional Information







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Packaging

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

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MDCG-4 17-38 MDCG-4 17-28 MDCG-4 17-23 MDCG-4 12-38 MDCG-4 12-28 MDCG-4 22-28 MDCG-4 22-33 MDCG-4 32-38 MDCG-4 22-38 MDCG-4 27-38 MDCG-4 12-23 MDCG-4 27-33 MDCG-4 12-18 MDCG-4 12-33 MDCG-4-12-23 MDCG-4-12-28 MDCG-4-12-28 MDCG-4-12-28 MDCG-4-12-38 MDCG-4-12-38 MDCG-4-27-38 MDCG-4-22-38 MDCG-4-22-38 MDCG-4-22-38 MDCG-4-23-38 MDCG-4-23-38 MDCG-4-23-38 MDCG-4-23-38 MDCG-4-23-38 MDCG-4-23-38 MDCG-4-37-43 MDCG-4-37-43