

DRS-50 50.8mm High Power Reed Switch





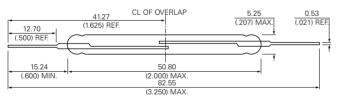
Agency Approvals

Agency	Agency File Number	Ampere-Turns Range	
c FN [°] us	E47258 E471070	42-83 AT	
Æx>	DEMKO 14 ATEX 1393U	42-83 AT	

Note: Contact Littelfuse for specific agency approval ratings.

Dimensions

Dimensions in mm (inch)



Description

The DRS-50 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 2mA. Will carry 6A and switch up to 100W/VA. It has high insulation resistance of 10^{10} 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

Benefits

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

Applications

- Security
- Limit switching

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.	100
Voltage ³	Switching ² Breakdown ⁴	Vdc - max. Vac - max. Vdc - min.	400 280 600
Current ³	Switching ² Carry	Adc - max. Aac - max. Adc - max.	3.0 2.1 6.0
Resistance	Contact, Initial Insulation	Ω - max. Ω - min.	0.100 10 ¹⁰
Capacitance	Contact	pF - typ.	0.6
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 Littlefuse 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

• Available sensitivity range 42-83 AT

· Capable of switching European

· Zero operating power required for

mains voltage

contact closure

Industrial applications

• White Goods



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Product Characteristics

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

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

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

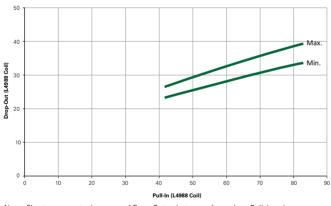
3. Pull-In Range - Contact Littelfuse for narrower AT ranges available.

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

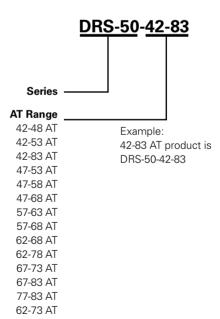
5. Custom modifications of forming and/or cutting of reed switches are available. Please contact Littelfuse.

Drop-Out vs. Pull-In Chart





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



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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