

DRR-129 50.8mm Close-Differential Reed Switch



OBSOLETE DATE: 07/17/2017 PCN/ECN# N/A
REPLACED BY: DRS-50



Description

The DRR-129 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 100W. Will carry 6A and switch 3A. 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
- Available sensitivity range 42-83 AT

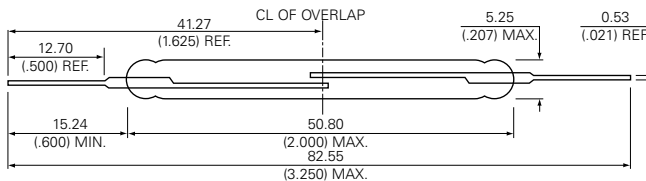
Agency Approvals

Agency	Agency File Number	Ampere-Turns Range
	E47258 E471070	42-83 AT
	DEMKO 14 ATEX 1393U	42-83 AT

Note: Contact Littelfuse for specific agency approval ratings.

Dimensions

Dimensions in mm (inch)



Benefits

- Hermetically sealed switch contacts are not affected by and have no effect on their external environment
- Capable of switching European mains voltage
- Zero operating power required for contact closure

Applications

- Security
- Limit switching
- Industrial safety applications

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	Vdc - max.	400
	Breakdown ⁴	Vac - max.	280
		Vdc - min.	600
Current ³	Switching ²	Adc - max.	3.0
	Carry	Aac - max.	2.1
		Adc - max.	6.0
Resistance	Contact, Initial Insulation	Ω - max.	0.100
		Ω - min.	10^{10}
Capacitance	Contact	pF - typ.	0.6
Temperature	Operating Storage ⁵	$^{\circ}\text{C}$	-40 to +125
		$^{\circ}\text{C}$	-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		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 II).

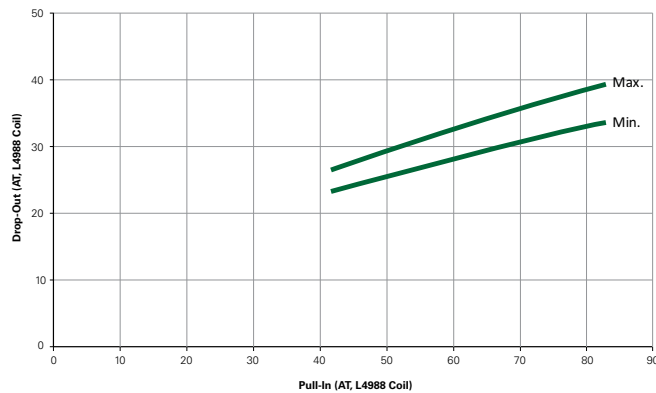
2. Shock and Vibration - per EIA/NARM RS-421-A and MIL-STD-202.

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

DRR-129-42-83

Series

AT Range

42-48 AT
42-53 AT
42-83 AT
47-53 AT
47-58 AT
47-68 AT
57-63 AT
57-68 AT
62-68 AT
62-78 AT
67-73 AT
67-83 AT
77-83 AT
62-73 AT

Example:
42-83 AT product is
DRR-129-42-83

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

Mouser Electronics

Authorized Distributor

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DRR-129 42-53	DRR-129 42-58	DRR-129 52-63	DRR-129 57-78	DRR-129 47-63	DRR-129 52-68	DRR-129 42-68
DRR-129 67-78	DRR-129 47-73	DRR-129 57-68	DRR-129 72-78	DRR-129 57-83	DRR-129 47-58	DRR-129 57-63
DRR-129 52-58	DRR-129 42-73	DRR-129 47-78	DRR-129 72-83	DRR-129 52-78	DRR-129 47-83	DRR-129 42-63
DRR-129 42-78	DRR-129 47-53	DRR-129 77-83	DRR-129 52-73	DRR-129 62-78	DRR-129 52-83	DRR-129 67-83
DRR-129 57-73	DRR-129 62-68	DRR-129 62-73	DRR-129 62-83	DRR-129 42-48	DRR-129 42-83	DRR-129 47-68
DRR-129 67-73	DRR-129-Q551	DRR-129-47-83	DRR-129-47-78	DRR-129-52-58	DRR-129-57-73	DRR-129-67-78
DRR-129-52-73	DRR-129-42-78	DRR-129-62-83	DRR-129-57-78	DRR-129-42-68	DRR-129-72-78	DRR-129-42-
63	DRR-129-47-63	DRR-129-57-83	DRR-129-42-58	DRR-129-52-63	DRR-129-42-73	DRR-129-47-73
DRR-129-	52-68	DRR-129-52-83	DRR-129-72-83	DRR-129-52-78	DRR-129-77-88	DRR-129-87-93
					DRR-129-97-103	