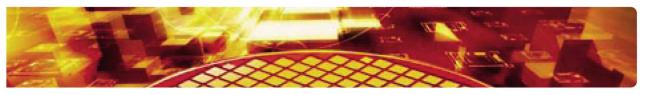


# D series

high voltage reed relays 15kV, 50W







Very high isolation voltages, up to 15kV, are achieved through the use of high vacuum reed switches with either Rhodium or Tungsten contacts and make these relays suitable for high reliability applications such as cardiac defibrillators, test equipment and high voltage power supplies.

The Rhodium contacts have low contact resistance while the Tungsten contacts can switch higher voltages.

Printed Circuit Board (PCB) or Panel mount, via nylon studs, versions are available.

Connection options include PCB, solder turret tag, flying lead and Faston\* style Spade Terminals.

Available as Form A (SPNO) or Form B (SPNC) contact configurations.

- 15kV Isolation
- Low Contact Resistance
- High Power Switching
- PCB or Panel Mount
- Flying Lead, Solder and Faston\* Style Spade Terminal Options





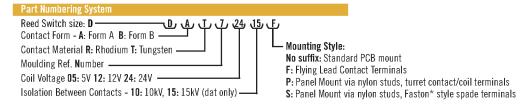


Contact	Units	Conditions	10kV Form A		10kV Form B		15kV Form A		
Contact Materials			Rhodium	Tungsten	Rhodium	Tungsten	Tungsten		
Isolation Across Contacts	kV	DC or AC peak	10	10	10	10	15		
Max. Switching Power	W		50	50	50	50	50		
Max. Switching Voltage	V	DC or AC peak	1000	7000	1000	7000	10000		
Max. Switching Current	А	DC or AC peak	3	2	3	2	2		
Max. Current Carry	А	DC or AC peak	4	3	4	3	2		
Capacitance Across Contacts	pF	Coil/Screen Grounded	<0.2	< 0.2	<0.2	< 0.2	<0.2		
Lifetime	Operations	Dry Switching	109	109	109	10 <sup>9</sup> 10 <sup>9</sup>		109	
Lifetime	Operations	50W Switching	106	$10^{6}$	106	$10^{6}$	108		
Contact Resistance	m0hms	Maximum (Typical)	50 (15)	250 (100)	50 (15)	250 (100)	250 (100)		
Insulation Resistance	Ohms	Minimum (Typical)	1010 (1013)	1010 (1013)	10 <sup>10</sup> (10 <sup>13</sup> )	1010 (1013) 1010		0 (1013	)
Coil at 20°C			57	12V 24V	5V 1	2V 24V	5V	12V	24V
Must Operate	٧	DC	3.7	9 20	3.7	9 20	3.7	9	20
Must Release	٧	DC	0.5	1.25 4	0.5 1	.25 4	0.5	1.25	4
Operate Time	ms	Diode Fitted	3.0	3.0 3.0	2.0 2	.0 2.0	3.0	3.0	3.0
Release Time	ms	Diode Fitted	2.0	2.0 2.0	3.0 3	.0 3.0	2.0	2.0	2.0
Resistance	Ohms		28	150 780	38 2	40 925	16	95	350
Construction									
Isolation Contact to Coil	kV	DC or AC peak		17	1	17		17	
Insulation Resistance Contact									
to All Other Terminals	Ohms	Minimum (Typical)	10 <sup>10</sup> (10 <sup>13</sup> )		10 <sup>10</sup> (10 <sup>13</sup> )		10 <sup>10</sup> (10 <sup>13</sup> )		
Environmental									
Operating Temperature Range	°C		-20 to +70		-20 to +70		-20 to +70		
Weight Version		Standard	Panel		Spade		Flying Lead		
Form A	gm	23	28		29		38		
Form B	gm	31	36		37		46		

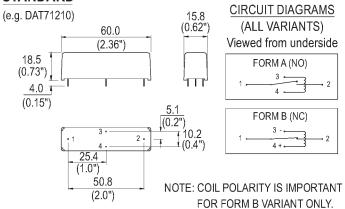


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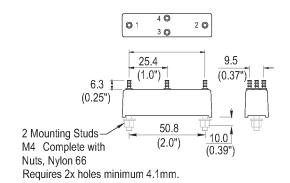


# **STANDARD**

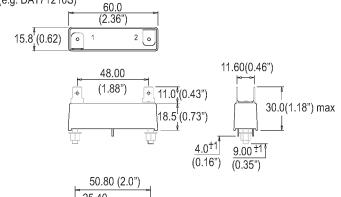


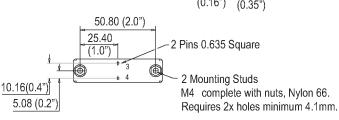
## PANEL MOUNT

(e.g. DAT71210P)



# SPADE TYPE (e.g. DAT71210S) 'S' Suffix denotes the 6.3 'Push On' blade connectors, M4 fixing bolts and Epoxy potting.





## **FLYING LEAD**

NOTE: PINS WHICH ARE NOT NUMBERED HAVE NO ELECTRICAL CONNECTION.

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