D Series High Voltage relays 10kV & 15kV



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 contact relays have low contact resistance, while the Tungsten contact relays can switch higher voltages.

PCB or Panel Mount, via Nylon studs, versions are available.

Connection options, for the HV, include PCB, solder turret(wire wrap), flying lead and 0.25" spade terminals.

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- 10kV or 15kV Isolation
- Low Contact Resistance
- PCB or Panel Mount
- HV connections via Flying Leads, Solder Turret (wire wrap), or 1/4" Spade Terminals
- Excellent AC characteristics

Contact Specification	Uni	t Condition	10kV	SPNO		10k	V SPNC		15	(V SPNO	
Contact Material			Rhod	lium Tur	nsten	Rhodiu	m Tung	sten	Tun	gsten	
Isolation across contact	s kV	DC or AC peak	10	10		10	10		15	0	
Switching Power Max.	W		50	50		50	50		50		
Switching Voltage Max.	٧	DC or AC peak	1000	70	00	1000	7000		100	000	
Switching Current Max.	А	DC or AC peak	3	2		3	2		2		
Capacitance across contacts	pF	coil to screen grounded	<0.2	<0	.2	<0.2	<0.2		<0	.2	
Lifetime operations	5	dry switching	10°	10	9	10°	10 ⁹		10°		
		50W switching	10 ⁶	10 ⁶	6	10 ⁶	10 ⁶		106		
Contact Resistance	mΩ	max (typical)	50 (1	5) 25	0(100)	50 (15)	250(10	0)	250) (100)	
Insulation Resistance Ω min (typical)			10 ¹⁰ (10 ¹³)			10 ¹⁰ (10 ¹³)			10 ¹⁰ (10 ¹³)		
Coil Specification			5V	12V	24V	5V	12V	24V	5V	12V	24V
Must Operate Voltage Must Release Voltage Operate Time Release Time Resistance	V V ms ms Ω	DC DC diode fitted diode fitted	3.7 0.5 3.0 2.0 28	9 1.25 3.0 2.0 150	20 4 3.0 2.0 780	3.7 0.5 2.0 3.0 38	9 1.25 2.0 3.0 240	20 4 2.0 3.0 925	3.7 0.5 3.0 2.0 16	9 1.25 3.0 2.0 95	20 4 3.0 2.0 350
Relay Specification											
Isolation contact/coil kV Insulation resistance contact to all terminals Ω min (typical) Envirnonmental		17			17			17			
			10 ¹⁰ (10 ¹³)			10 ¹⁰ (10 ¹³)			10 ¹⁰ (10 ¹³)		
Operating Temp range	°C		-20 t	:0 +70			-20 to	+70	-20	to +70	

Part Numbering System

Reed Switch Size Contact Form A=n/o, B	D A T 7 12 10
Contact Material R=Rhodium, T=Tungsten Moulding Ref. No.	
Coil Voltage 05=5Vdc, 12=12Vdc, 24=24Vdc	
Isolation between Contacts 3=3kV, 5=5kV, 10=10kV, 15=15kV	

Mounting or Connection Style No suffix indicates PCB mount F=PCB mount & coil connection with Flying lead HV connection P=Panel mount with wire wrap terminals S=PCB mount & coil connection with stud fixing & 1/4" spade HV connection (not available on 15kV models) T=PCB mount & coil connection with stud fixing & wire wrap HV connection

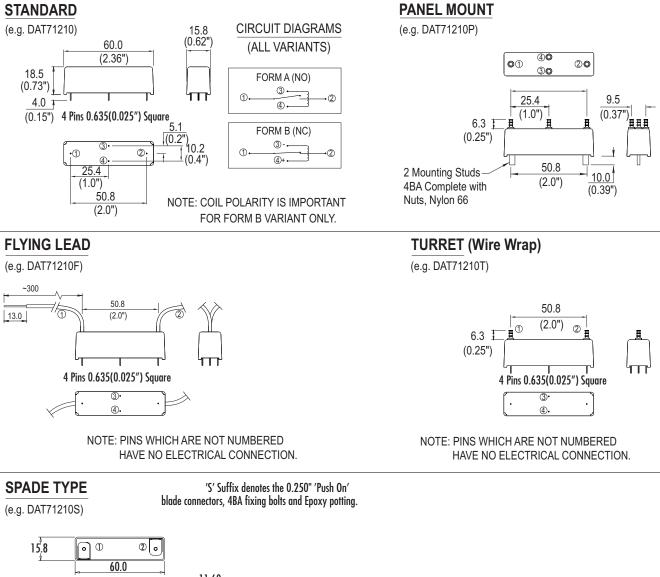
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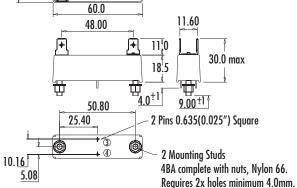
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