

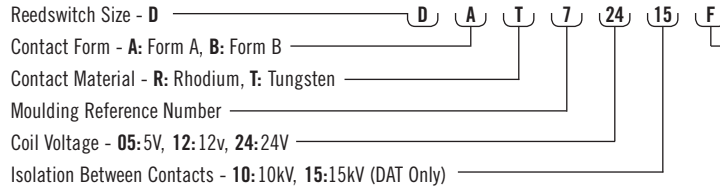
The D series is capable of withstanding voltages up to 15kV, the D series high voltage reed relay is suitable for high reliability applications such as cardiac defibrillators, test equipment and high voltage power supplies. Two contact materials are available for low contact resistance or power switching applications. Standard coil voltages of 5, 12 and 24 volts are available with form A and B contact configurations.

Printed Circuit Board (PCB) mount and panel mount (nylon studs) configurations available. Optional electrical connections include solder turret tag, flying lead and Faston* style spade terminals.

- **15kV Isolation**
- **Low Contact Resistance**
- **High Power Switching**
- **PCB or Panel Mount**
- **Flying Lead, Solder Turret and Faston* style spade terminals Options**

Contact	Units	Conditions	10kV Form A		10kV Form B		15kV Form A				
			Rhodium	Tungsten	Rhodium	Tungsten	Tungsten				
Contact Materials			Rhodium	Tungsten	Rhodium	Tungsten	Tungsten				
Isolation Across Contacts	kV	DC or AC peak	10	10	5	5	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	A	DC or AC peak	3	2	3	2	1				
Max. Current Carry	A	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	10 ⁹	10 ⁹	10 ⁹	10 ⁹	10 ⁹				
Lifetime	Operations	50W Switching	10 ⁶	10 ⁶	10 ⁶	10 ⁶	10 ⁶				
Contact Resistance	mOhms	Maximum (Typical)	50 (15)	250 (100)	50 (15)	250 (100)	250 (100)				
Insulations Resistance	Ohms	Minimum (Typical)	10 ¹⁰ (10 ¹³)	10 ¹⁰ (10 ¹³)	10 ¹⁰ (10 ¹³)	10 ¹⁰ (10 ¹³)	10 ¹⁰ (10 ¹³)				
Coil at 20°C			5V	12V	24V	5V	12V	24V	5V	12V	24V
Must Operate	V	DC	3.7	9	20	3.7	9	20	3.7	9	20
Must Release	V	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	240	925	16	95	350
Construction											
Isolation Contact to Coil	kV	DC or AC peak	17			17			17		
Insulation Resistance Contact to All Other Terminals	Ohms	Minimum (Typical)	10 ¹⁰ (10 ¹³)			10 ¹⁰ (10 ¹³)			10 ¹⁰ (10 ¹³)		
Environmental											
Operating Temperature Range	°C		-20 to +70			-20 to +70			-20 to +70		

Part Numbering System



Mounting Style:

No suffix: Standard PCB mount

F: Flying Lead Contact Terminals

S: Panel Mount via nylon studs, Faston* style spade terminals

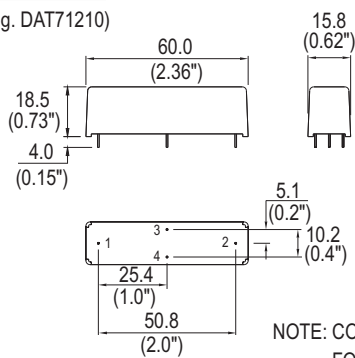
P: Panel Mount via nylon studs, turret contact/coil terminals

Mechanical Dimensions

All dimensions are in millimetres (inches)

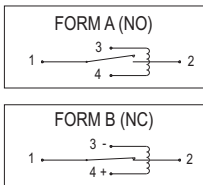
STANDARD

(e.g. DAT71210)



CIRCUIT DIAGRAMS (ALL VARIANTS)

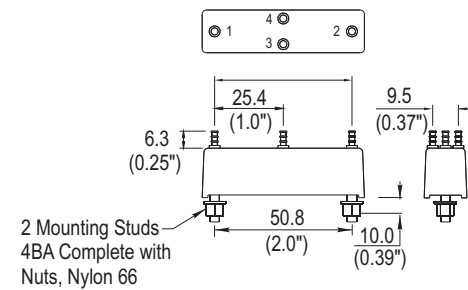
Viewed from underside



NOTE: COIL POLARITY IS IMPORTANT FOR FORM B VARIANT ONLY.

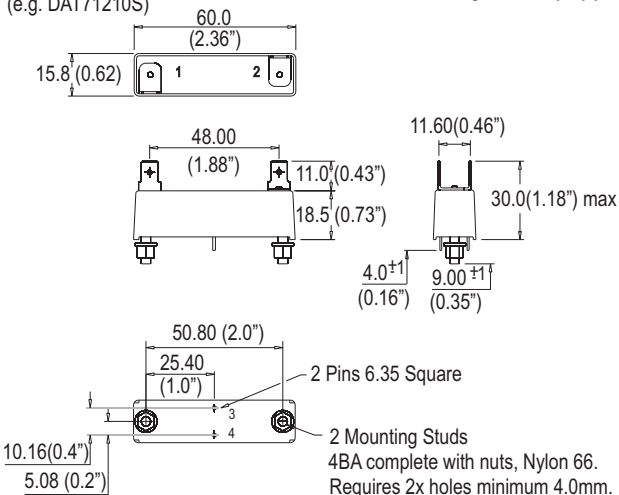
PANEL MOUNT

(e.g. DAT71210P)



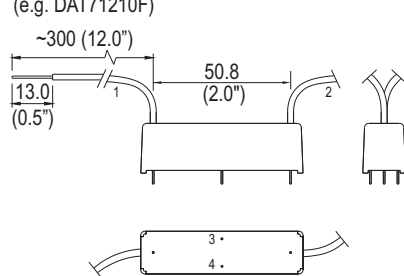
SPADE TYPE

(e.g. DAT71210S)



FLYING LEAD

(e.g. DAT71210F)



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

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