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.

- 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	Condition	10kV SPNO			10kV SPNC			15kV SPNO		
Contact Material Isolation across contact Switching Power Max. Switching Voltage Max. Switching Current Max. Carry Current Max		DC or AC peak		ium Tui 10 50		Rhodiur 10 50 1000 3		sten		gsten	
Capacitance across contacts Lifetime operations	pF	coil to screen grounded dry switching 50W switching	<0.2 10 ⁹ 10 ⁶	•	9	<0.2 10 ⁹ 10 ⁶	<0.2 10° 106		<0. 10° 106	2	
Contact Resistance $m\Omega$ max (typical) insulation Resistance Ω min (typical)		50 (15) 250(100) 10 ¹⁰ (10 ¹³)		50 (15) 250(100) 10 ¹⁰ (10 ¹³)			250 (100) 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 Note. The operate / release volta	V V ms ms Ω ge and	DC DC diode fitted diode fitted	3.7 0.5 3.0 2.0 28 nge at a rat	9 1.25 3.0 2.0 150 e of 0.4%	3.0 2.0 780	3.7 0.5 2.0 3.0 38 C. Values a	9 1.25 2.0 3.0 240 re stated a	20 4 2.0 3.0 925 at room terr	3.7 0.5 3.0 2.0 16 perature (2)	9 1.25 3.0 2.0 95 O degrees C	20 4 3.0 2.0 350
Relay Specification											
Isolation contact/coil Insulation resistance co to all terminals Environmental	stance contact Ωmin (typical)		17 10 ¹⁰ (10 ¹³)			17 10 ¹⁰ (10 ¹³)			17 10 ¹⁰ (10 ¹³)		
Operating Temp range	°C		-20 to +70			-20 to +70			-20 to +70		

<u>Please refer to this document for circuit design notes:-</u> <u>http://www.cynergy3.com/blog/application-notes-reed-relays-0</u>

Part Numbering System

D A T 7 12 10 F

Reed Switch Size

Contact Form A=n/o, B=n/c

Contact Material

R=Rhodium,

T=Tungsten

Moulding Ref. No.

Coil Voltage

05=5Vdc, 12=12Vdc,
24=24Vdc

Isolation between

Contacts

10=10kV, 15=15kV

Mounting or Connection Style
No suffix indicates PCB mount

ucynergy

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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ISO9001 CERTIFIED

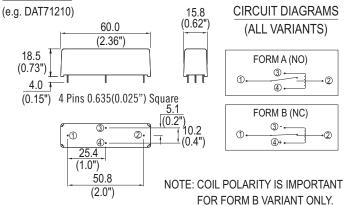
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Made in the UK



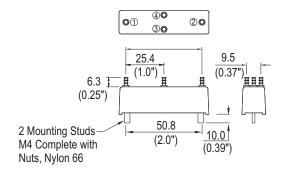
MECHANICAL

STANDARD

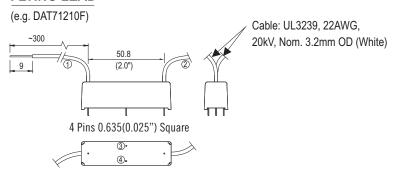


PANEL MOUNT

(e.g. DAT71210P)



FLYING LEAD

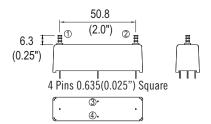


NOTE: PINS WHICH ARE NOT NUMBERED

HAVE NO ELECTRICAL CONNECTION.

TURRET (Wire Wrap)

(e.g. DAT71210T)

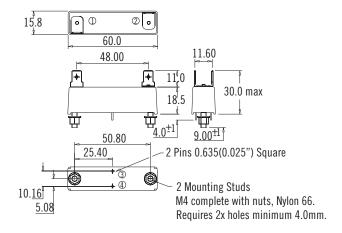


NOTE: PINS WHICH ARE NOT NUMBERED HAVE NO ELECTRICAL CONNECTION.

SPADE TYPE

(e.g. DAT71210S)

'S' Suffix denotes the 0.250" 'Push On' blade connectors, M4 fixing bolts and Epoxy potting.



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