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

10kV S	10kV SPNO		SPNC	15kV SPNO	
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I	-		-		
1					
. -		-			
	-		-	_	
<0.2	<0.2	<0.2 <	<0.2	<0.2	
1.09	1.09	109 1	09	109	
0					
					ı.
				1	24V
0.7				0.7	20
1	1.20				
					3.0
					2.0
					350
change at a rate of	f 0.4% per degree	C. Values are	stated at room tem	perature (20 degrees	C)
	17	1	7	17	
	17	'	. /	17	
1010 (10	1010 (1013)		010 (1013)	10 ¹⁰ (10 ¹³)	
10 (10	,	1 -		1 20 (10	,
	Rhodiun 10 50 k 1000 k 3 k 4 <0.2 10° 50 (15) 10° (1' 5V 1 3.7 0.5 3.0 2.0 28 change at a rate of	Rhodium Tungsten 10 10 50 50 1000 7000 3 2 4 3 <0.2 <0.2 10° 10° 50 (15) 250(100) 10¹¹⁰ (10¹³) 5V 12V 24V 3.0 3.0 3.0 2.0 2.0 2.0 28 150 780	Rhodium Tungsten 10 10 50 50 1000 7000 1000 1000 3 2 3 100 100 1000 1000 3 4 3 4 100 100 1000 1000 1000 1000 1000 1000	Rhodium Tungsten 10 10 10 10 10 50 50 50 50 50 k 1000 7000 1000 7000 k 3 2 3 2 k 4 3 4 3 <0.2 <0.2 <0.2 <0.2 10° 10° 10° 10° 10° 10° 10° 10° 50 (15) 250(100) 10° (101°) 10° 10° 10° 10° 10° 10° 10° 10° 10° 10°	Rhodium Tungsten 10

<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

ucynergy

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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IS09001 CERTIFIED

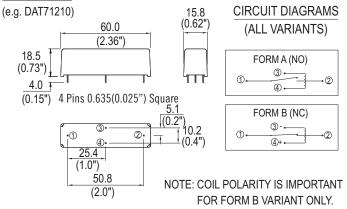
D 2018

Made in the UK



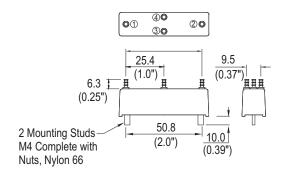
MECHANICAL

STANDARD

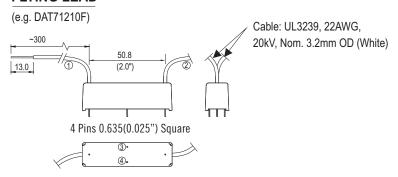


PANEL MOUNT

(e.g. DAT71210P)



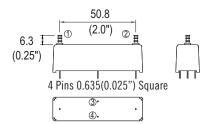
FLYING LEAD



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

TURRET (Wire Wrap)

(e.g. DAT71210T)

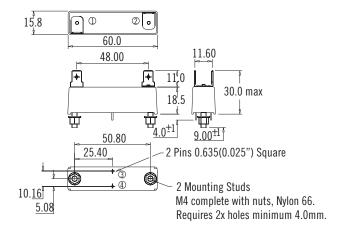


NOTE: PINS WHICH ARE NOT NUMBERED HAVE NO ELECTRICAL CONNECTION.

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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