D200 Series
High Power 200W reed relay with 7kV isolation

- **200W switching power**
- **7kV Isolation across contacts**
- **Low contact resistance**
- **PCB mount**
- **Excellent AC characteristics**

The D200 series combines a high power 200W switching capacity with isolation of 7kV across the contacts.

This switching performance is achieved through the use of high vacuum reed switches with tungsten contacts. These relays are suitable for high reliability applications, such as test equipment and high voltage power supplies.

These are PCB mount relays, though custom options may be available on request.

Contact Specification	Unit	Condition	
Switch Action		SPNO	
Contact Material		Tungsten	
Isolation across contacts	kV	DC or AC peak	7
Switching Power Max.	W	resistive	200
Switching Voltage Max.	V	DC or AC peak	2500
Switching Current Max.	A	DC or AC peak	3
Carry Current Max	A	DC or AC peak	5
Capacitance across contacts	pF	coil to screen grounded	0.8 typ
Lifetime operations		dry switching	10^9
		50W switching	10^6
Contact Resistance	mΩ	max (typical)	600
Insulation Resistance	Ωmin (typical)		(10^{13})

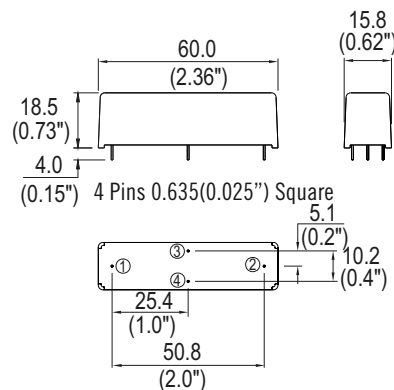| Coil Specification			5V	12V	24V
Must Operate Voltage	V	DC	3.75	9	20
Must Release Voltage	V	DC	0.5	1.25	4
Operate Time	ms	diode fitted	6.0	6.0	6.0
Release Time	ms	diode fitted	1.0	1.0	1.0
Resistance	Ω		28	150	780

Note. The operate / release voltage and coil resistance will change at a rate of 0.4% per degree C. Values are stated at room temperature (20 degrees C)

Relay Specification			
Isolation contact/coil	kV	DC or AC peak	17
Insulation resistance contact to all terminals	Ωmin (typical)		10^{10} (10^{13})
Environmental Operating Temp range	ºC		20 to +70

Standard Parts	Coil Voltage Vdc
DAT200-05	5
DAT200-12	12
DAT200-24	24

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

Mechanical Dimensions

CIRCUIT DIAGRAM

FORM A (NO)

60.0 (2.36")
18.5 (0.73")
4.0 (0.15")
4 Pins 0.635(0.025") Square
15.8 (0.62")
5.1 (0.2")
10.2 (0.4")
25.4 (1.0")
50.8 (2.0")

Made in the UK
www.cynergy3.com