D-HR Series



High Insulation Resistance, 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 which 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.

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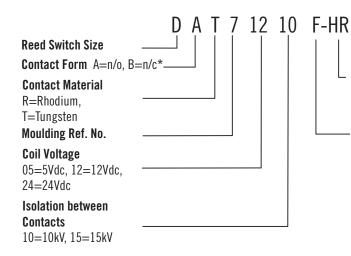
IS09001certified

D-HR 2015

- 10kV or 15kV Isolation
 - Low Contact Resistance
 - 1x10¹⁴ Ohms Minimum Insulation Resistance
 - PCB or Flying Leads Connections
 - Ideal for sensitive test and measurement circuits which require low leakage current losses

Contact Specification	Unit	Condition	10kV SPN0			10kV SPNC			15kV SPNO*		
Contact Material			Rhodium Tungsten		Rhodium Tungsten			Tungsten			
Isolation across contact	s kV	DC or AC peak	10	1	0	10	10		15		
Switching Power Max.	W		50	5	50	50	50		50		
Switching Voltage Max.	٧	DC or AC peak			/000	1000		7000		10000	
Switching Current Max.	А	DC or AC peak	3 2			3	2		2		
Carry Current Max	А	DC or AC peak	4 3		}	4	3	-		2	
Capacitance across contacts	pF	coil to screen grounded	<0.	2 <	<0.2	<0.2	<0.2		<0	.2	
Lifetime Operations	6	dry switching	10°	1	0°	10 ⁹	10 ⁹		10°		
		50W switching	10 ⁶	1	06	10 ⁶	10^{6}		106		
Contact Resistance	ontact Resistance $m\Omega$ max (typical)		50 (15) 250(100)		50 (15) 250(100)			250 (100)			
Insulation Resistance Ωmin		1x10 ¹⁴			1x10 ¹⁴			1x10 ¹⁴			
Coil Specification			5V	12V	24V	5V	12V	24V	5V	12V	24V
Must Operate Voltage	٧	DC	3.7	9	20	3.7	9	20	3.7	9	20
Must Release Voltage	٧	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	Ω		28	150	780	38	240	925	16	95	350
Relay Specification											
Isolation contact/coil kV		17			17			17			
Insulation resistance contact											
to all terminals	inals Ωmin (typical)		1x10 ¹⁴			1x10 ¹⁴			1x10 ¹⁴		
Environmental											
Operating Temp range	°C		-20 to +70			-20 to +70			-20 to +70		

Part Numbering System



Insulation Resistance -HR = High Insulation Resistance Version Mounting or Connection Style No suffix indicates PCB mount F= PCB mount with & coil connection with flying lead HV connection

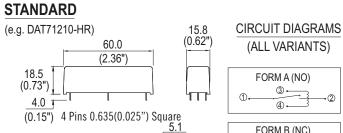
* Form B (n/c) is not available on 15kV models

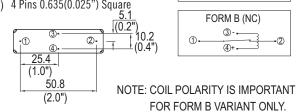
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MECHANICAL

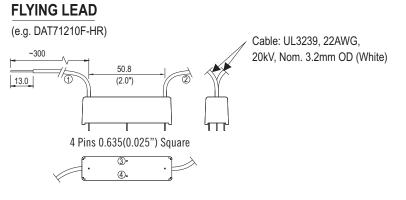




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NOTE: PINS WHICH ARE NOT NUMBERED HAVE NO ELECTRICAL CONNECTION.

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