



D-HR Series

High Insulation Resistance, High Voltage Relays -5kV, 7.5kV, 10kV & 15kV





- 5kV, 7.5kV, 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			5kV SPNO			5	5kV SPNC			7.5kV SPNO			7.5kV SPNC			10kV SPNO			10kV SPNC			NO*
Contact Material			Rhodiu	ım Tu	ngsten	Rhodi	um T	ungsten	Rhodiu	n Tur	gsten	Rhodi	ium	Tungsten	Rhodiu	m T	ungsten	Rhod	ium T	ungsten	Tungste	n
Isolation across contacts	s kV	DC or AC peak	5	5		5		5	7.5	7.5		7.5		7.5	10		10	10		10	15	
Switching Power Max.	W		50	50)	50		50	50	50		50		50	50		50	50		50	50	
Switching Voltage Max.	٧	DC or AC peak	1000	350	00	1000	3	3500	1000	500	0	1000		5000	1000		7000	1000)	7000	1000	0
Switching Current Max.	Α	DC or AC peak	3	2		3		2	3	2		3		2	3		2	3		2	2	
Carry Current Max	Α	DC or AC peak	4	3		4		3	4	3		4		3	4	,	3	4	;	3	2	
Capacitance across contacts	pF	coil to screen grounded	<0.2	<0	.2	<0.2		<0.2	<0.2	<0.	2	<0.2		<0.2	<0.2		<0.2	<0.2		<0.2	<0.2	
Lifetime Operations	3	dry switching	10°	10	9	10°		10°	10°	10°		10°		10°	10°		10 ⁹	10 ⁹		10°	10°	
·		50W switching	10 ⁶	10) ⁶	10 ⁶		10^6	10^{6}	10^6		10 ⁶		10 ⁶	10 ⁶		10^{6}	10 ⁶		10 ⁶	10 ⁶	
Contact Resistance	mΩ	2 max (typical)	50(15)	250	(100)	50(1	5) 25	0(100)	50(15)	250(100)	50(1	5) 2	50(100)	50(15)	2	50(100)	50(1	5) 25	0(100)	250 (10	00)
Insulation Resistance	Ω n	nin	1x10 ¹⁴	1x1	014	1x10 ¹⁴	1	x10 ¹⁴	1x10 ¹⁴	1x1	014	1x10	14	1x10 ¹⁴	1x10 ¹⁴		1x10 ¹⁴	1x10	14	lx10 ¹⁴	1x10 ¹	.4
Coil Specification			5V	12V	24V	5V	12V	24V	5V	12V	24V	5V	12V	24V	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	3.7	9	20	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	0.5	1.25	4	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	2.0	2.0	2.0	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	3.0	3.0	3.0	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		150		38	240	925	28	150	780	38	240	925	16 95	350
Note. The operate / release volta	ge and	l coil resistance will cha	nge at a r	ate of 0.	4% per d	egree C. \	alues a	re stated a	t room tem	perature	(20 deg	rees C)			ı							
Relay Specification																						
Isolation contact/coil kV DC or AC peak			17																			
Insulation resistance contact																						
to all terminals Environmental												1x10 ¹⁴	,									
Operating Temp range	range °C										-2	20 to +	70									

Very high isolation voltages, up to 15kV, are achieved through the use of high vacuum reed switches. Rhodium or tungsten contacts 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, whilst the tungsten contact relays can switch higher voltages.

Part Numbering System 12 10 F-HR **Reed Switch Size Insulation Resistance** Contact Form A=n/o, B=n/c* -HR = High Insulation**Contact Material Resistance Version** R=Rhodium, **Mounting or Connection Style** T=Tungsten No suffix indicates PCB mount Moulding Ref. No. F= PCB mount with & coil connection with flying lead HV **Coil Voltage** connection 05=5Vdc, 12=12Vdc, 24=24Vdc Isolation between **Contacts** 05=5kV, 75=7.5kVPlease refer 勝 特 力 材 料 886-3-5753170 10=10kV, 15=15kV http://www.

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

胜特力电子(上海) 86-21-34970699 胜特力电子(深圳) 86-755-83298787 Http://www.100y.com.tw

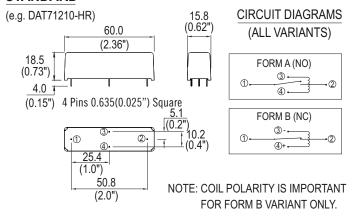
Made in the UK www.cvnergv3.com



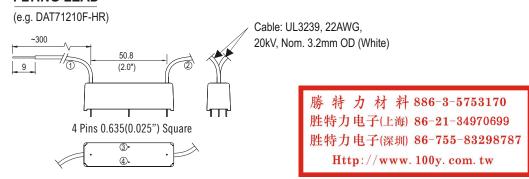


MECHANICAL

STANDARD



FLYING LEAD



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