RS stock numbers : 1245096, 1245097, 1245098, 1245099, 1245100, 1245101, 1245105, 1245106, 1245107, 1245108, 1245109, 1245110



DA(UL) Series UL Approved *, Normally Open, High Voltage Relays - 10kV



Recently approved by UL, very high isolation voltages (up to 10kV) 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, contact Cynergy3 for details.

Connection options, for the HV, include PCB, solder turret(wire wrap), flying lead and 0.25" spade terminals, contact cynergy3 for details,

Cynergy3 Components Ltd. 7 Cobham Road Ferndown Industrial Estate Wimborne, Dorset BH21 7PE *Telephone +44 (0) 1202 897969*

Email:sales@cynergy3.com

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DA(UL) RS 2016

- 10kV 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	Unit	Condition	10kV	SPNO		
Contact Form				N/O (normally open)		
Contact Material				n Tung		
Isolation across contact	s kV	DC or AC peak	10	1	• I	
Switching Power Max.	W		50	50		
Switching Voltage Max.	V	DC or AC peak	1000	70	00	
Switching Current Max.	А	DC or AC peak	3	2		
Carry Current Max	А	DC or AC peak	4	3		
Capacitance across	рF	coil to screen	<0.2	<0	.2	
contacts		grounded				
Lifetime operations		dry switching	10°	10	9	
		50W switching	10 ⁶	10	6	
Contact Resistance	mΩ	max (typical)	50 (15)	25	0(100)	
Insulation Resistance	Ω m	in (typical)	10 ¹⁰	(10) ¹³)	
Coil Specification			5V	12V	24V	
Must Operate Voltage	v	DC	3.7	9	20	
Must Release Voltage	v	DC	0.5	-	-	
Operate Time	ms	diode fitted	3.0			
Release Time	ms		2.0			
Resistance	Ω		2.0	150	780	
Relay Specification	52		20	150	780	
,						
Isolation contact/coil kV			17			
Insulation resistance co	ntact					
to all terminals Environmental	Ωm	in (typical)	10 ¹⁰ (10 ¹³)			
Operating Temp range	°C		-20 to +70			

*Consult factory for UL ratings

RS Stock No	Standard Part	Contact Material	Coil Voltage (Vdc)	Mount type	
1245096	DAR70510U	Rhodium	5	PCB	
1245097	DAR71210U	Rhodium	12	PCB	
1245098	DAR72410U	Rhodium	24	PCB	
1245099	DAT70510U	Tungsten	5	PCB	
1245100	DAT71210U	Tungsten	12	PCB	
1245101	DAT72410U	Tungsten	24	PCB	
1245105	DAR70510FU	Rhodium	5	PCB with flying lead coil connection	
1245106	DAR71210FU	Rhodium	12	PCB with flying lead coil connection	
1245107	DAR72410FU	Rhodium	24	PCB with flying lead coil connection	
1245108	DAT70510FU	Tungsten	5	PCB with flying lead coil connection	
1245109	DAT71210FU	Tungsten	12	PCB with flying lead coil connection	
1245110	DAT72410FU	Tungsten	24	PCB with flying lead coil connection	

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



www.cynergy3.com

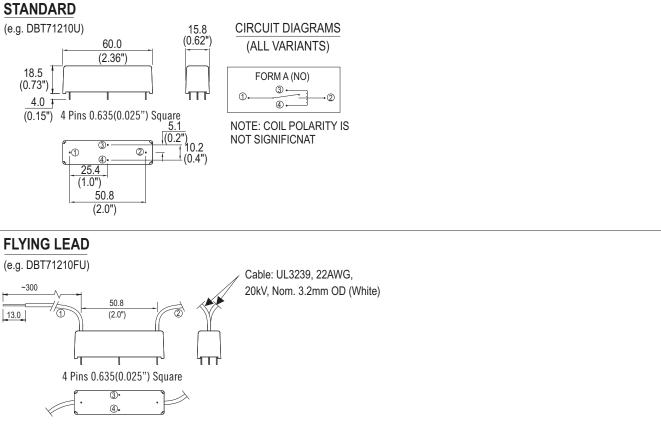
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MECHANICAL



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

Cynergy3 Components Ltd. 7 Cobham Road Ferndown Industrial Estate Wimborne, Dorset BH21 7PE *Telephone +44 (0) 1202 897969*

Email:sales@cynergy3.com

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