DB(UL) Series



UL Approved* Normally Closed, 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 Tungsten contacts and make these relays suitable for high reliability applications, such as cardiac defibrillators, test equipment and high voltage power supplies.

The Tungsten contact relays can switch higher voltages, up to 7000Vdc/ac peak to peak

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 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 SPNC		
Contact Form			N/C (normally closed)		
Contact Material		Tungsten			
Isolation across contacts	kV	DC or AC peak	10		
Switching Power Max.	W		50		
Switching Voltage Max.	٧	DC or AC peak	7000		
Switching Current Max.	Α	DC or AC peak	2		
Carry Current Max	Α	DC or AC peak	3		
Capacitance across	pF	coil to screen	< 0.2		
contacts		grounded			
Lifetime operations		dry switching	10°		
		50W switching	10^6		
Contact Resistance	mΩ	max (typical)	250(10	0)	
Insulation Resistance	Ω m	in (typical)	(10^{13})		
Coil Specification			5V	12V	24V
Must Operate Voltage	V	DC	3.7	9	20
Must Operate Voltage Must Release Voltage	V V	DC	0.5	1.25	
Operate Time	ms		2.0		20
Release Time	ms		3.0		3.0
Resistance	Ω	uloue litteu	38	240	925
Relay Specification	2.2		30	240	323
NGIAY SPECIFICATION					
netay Specification					
Isolation contact/coil	kV		17		
			17		
Isolation contact/coil	ntact	in (typical)		¹⁰ (10 ¹³)	

*Consult factory for UL ratings

Part Numbering System

D B T 7 12 10 F U **Reed Switch Size** Contact Form B = n/c- "**U**" indicates UL approved **Contact Material** T=Tungsten **Mounting or Connection Style** No suffix indicates PCB mount F=PCB mount & coil connection with Moulding Ref. No. Flying lead HV connection **Coil Voltage** P=Panel mount with wire wrap 05=5Vdc, 12=12Vdc, terminals 24=24Vdc S=PCB mount & coil connection with Isolation between stud fixing & 1/4" spade HV **Contacts** connection 10=10kV T=PCB mount & coil connection with stud fixing & wire wrap HV 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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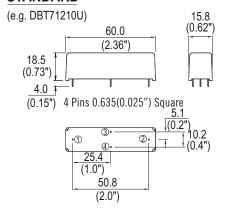
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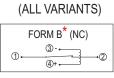
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MECHANICAL

STANDARD



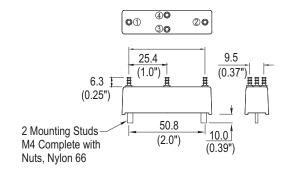


CIRCUIT DIAGRAMS

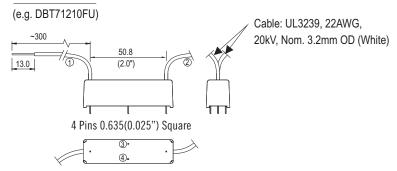
NOTE: COIL POLARITY IS IMPORTANT

PANEL MOUNT

(e.g. DBT71210PU)



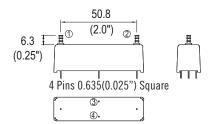
FLYING LEAD



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

TURRET (Wire Wrap)

(e.g. DBT71210TU)

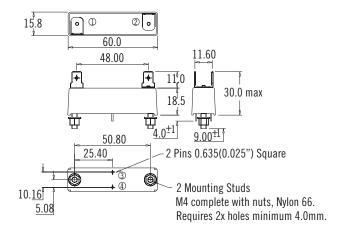


NOTE: PINS WHICH ARE NOT NUMBERED HAVE NO ELECTRICAL CONNECTION.

SPADE TYPE

(e.g. DBT71210SU)

'S' Suffix denotes the 0.250" 'Push On' blade connectors, M4 fixing bolts and Epoxy potting.



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

Email:sales@cynergy3.com

www.cynergy3.com

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