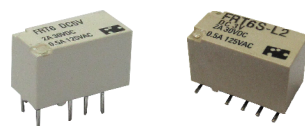


Features

Slim type & low profile
 Conforms to FCC part 68 1,500V surge dielectric
 DIL pitch terminals
 Surface mount type with "L" shaped terminals
 High capacity 2A / 30VDC
 Coil latching type is available
 Wash tight type



RoHS: E141516

Typical applications:

Telecommunication equipment
 Security alarm systems
 Medical monitoring equipment
 Flight simulator

Office equipment
 Measuring instruments
 Audio visual equipment
 Sensor control

Ordering information

FRT6 S L1 DC12V R XXX	
1	2 3 4 5 6
1 Relay model: FRT6 : 2KV dielectric strength; FRT6V: 3KV dielectric strength	4 Rated voltage 5 Packing: NIL: Plastic tube; R : Reel and tape (only SMT type)
2 Terminal type: NIL: PCB type; S: Standard (SMT); S1 : Short SMT	6 Special code Note: RoHS : RoHS compliant relay RoHS-I : AgNi contact
3 Sort: NIL: Single side stable; L1: 1 coil latching; L2 : 2 coil latching	

Coil rating

Single side stable

Rated voltage (V DC)	Coil resistance Ω +/-10%	Must operate voltage (V DC) Max.	Must release voltage (V DC) Min.	Maximum voltage (V DC) Max.	Power consumption (W) Approx.	Operate time (ms)	Release time (ms)
1.5	16	1.13	0.15	2.2	0.14	<4	<4
3	64.3	2.25	0.30	4.5			
4.5	145	3.38	0.45	6.7			
5	178	3.75	0.50	7.5			
6	257	4.50	0.60	9.0			
9	579	6.75	0.90	13.5			
12	1028	9.0	1.20	18.0			
24	4114	18.0	2.40	36.0			
48	8533	36.0	4.80	57.6			

1 coil latching / 2 coils latching

Rated voltage (V DC)	Coil resistance Ω +/-10%		Set voltage (V DC) Max.	Reset voltage (V DC) Max.	Maximum voltage (V DC) Max.		Power consumption (W) Approx.		Set time (ms)	Reset time (ms)
	1 coil	2 coils			1 coil	2 coils	1 coil	2 coils		
1.5	22.5	11.2	1.13	1.13	2.7	2.2	0.1	0.2	<2	<2
3	90	45	2.25	2.25	5.4	4.5				
4.5	202.5	101	3.38	3.38	8.1	6.7				
5	250	125	3.75	3.75	9	7.5				
6	360	180	4.5	4.5	10.8	9				
9	810	405	6.75	6.75	16.2	13.5				
12	1440	720	9.0	9.0	21.6	18				
24	5760	2880	18.0	18.0	43.2	36				

CAUTION: 1. The use of any coil voltage less than the rated coil voltage will compromise the operation of the relay.
 2. Pickup and release voltage are for test purposes only and are not to be used as design criteria.

Characteristics

Contact arrangement	DPDT (2 Form C)
Contact material	Silver alloy (gold clad)
Contact resistance (initial)	50m Ω Max. (at 0.1A 6VDC)
Contact rating (resistive)	0.5A 125VAC / 2A 30VDC
Switching current	2A Max.
Switching power	62.5VA / 60W Max.
Switching voltage	AC 250V / DC 220V Max.
Switching load (min.)	0.01mA 10m VDC (reference value)
Insulation resistance	1,000M Ω Min. (500VDC)
Dielectric strength	1,000VAC (50Hz/min) Between open contacts
	2,000VAC (50Hz/min) Between coil and contact (Special request: 3,000VAC)
	1,500VAC (50Hz/min) Between contact sets
Surge voltage (FCC)	1,500V Between open contacts (10 x 160 μ s)
	2,500V Between coil and contact (2 x 10 μ s)
Shock resistance	Functional : 735m/s ²
	Destructive: 980m/s ²
Vibration resistance	Functional : 3.3mm Double amplitude 10-55Hz
	Destructive: 5.0mm Double amplitude 10-55Hz
Ambient temperature	-40°C to +85°C
Humidity	98% RH, 40°C
Operation life	Mechanical 10 ⁸
	Electrical 5 x 10 ⁵ (at 1A 30VDC); 1 x 10 ⁵ (at 2A 30VDC / 0.5A 125VAC)
Weight	2g Approx.

(Specifications are subject to change without notices.)

Dimensions

mm

