

Features

Low coil power consumption Small size and low cost PCB mounting, DIL pitch terminal Standard and high sensitive operation use Dust cover or wash tight type





c us: E141516(N)

Ordering information

FRS1 H - S 3 4 - DC12V 5

1 Relay model: FRS1; FRS1K (standard 5 pins)

2 Power consumption: NIL: 0.36W;

B : 0.45W (available with 5Amp);

H : 0.2W high sensitive

3 Construction: NIL Dust cover; S: Wash tight type

4 Contact rating: NIL: 1Amp; 2: 2Amp; 3: 3Amp; 5: 5Amp (for "B" type only)

5 Rated voltage

Note: RoHS : RoHS compliant relay

RoHS-I: AgNi contact RoHS-N: AgSnO₂ contact

Coil rating

Rated voltage	Coil resistance Ω+/-10%			Must operate voltage	Must dropout voltage	Maximum voltage	Power consumption (W)	Operate time	Release time
(V)	FRS1(K)B	FRS1(K)	FRS1(K)H	% of ra	ated voltage (at	20°C)	Approx.	(ms)	(ms)
3	20	25	45				FRS1(K)B:		
5	56	70	120				0.45		
6	80	100	180	75 Max.	10 Min.	110 Max.	FRS1(K):	<5	<5
9	180	220	400				0.36		
12	320	400	700				FRS1(K)H:		
24	1280	1600	2800				0.20		

 ${\sf CAUTION: 1. The use of any coil voltage less than the rated coil voltage will compromise the operation of the relay.}$

2. Pickup and release voltage are for test purposes only and are not to be used as design criteria.

Characteristics

Contact arrangen	nent	SPST (1 Form A); SPDT (1 Form C)					
Contact material		Silver alloy (gold flash)					
Contact resistance	e	50mΩ Max.					
Contact rating (re	sistive)	1A 125VAC / 30VDC					
		2A 125VAC / 30VDC					
		3A 125VAC / 30VDC					
		5A 125VAC / 30VDC (only available for "B" type - 0.45W)					
Switching power		625VA / 150W Max.					
Switching voltage		AC 220V / DC 60V Max.					
Insulation resistance		100MΩ Min. (500VDC)					
Dielectric strengt	h	500VAC (50Hz/min) Between open contacts					
		500VAC (50Hz/min) Between coil and contact (Special: 1,000Vrms)					
Shock resistance		10g Approx.					
Vibration resistance		1.5mm Double amplitude 10-55Hz					
Ambient temperature		-25°C to +75°C					
Operation life	Mechanical	10 ⁷					
	Electrical	10 ⁵					
Weight		4g Approx.					

(Specifications are subject to change without notices.)





