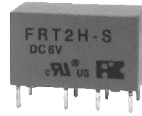


# Signal Relays

# El.italia serie FW-FRT2

## Features

Low profile and light weight  
 High reliability  
 Dual-in line configuration as IC  
 Use on telecommunications, remote control, etc.  
 For use with DIL-socket  
 Wash tight type



RoHS: E141516

## Ordering information

**FRT2 H - S 2 - DC12V**  
 1 2 3 4 5

1 Relay model	4 Special contact rating: 2: Special (0.8A 115VAC / 0.5A 220VAC)
2 Power consumption: NIL: 0.36W; B: 0.50W; H : 0.20W high sensitive	5 Rated voltage
3 Construction: S: Wash tight type	Note: RoHS : RoHS compliant relay RoHS-l : AgNi contact

## Coil rating

Rated voltage (V)	Coil resistance $\Omega \pm 10\%$			Must operate voltage	Must dropout voltage	Maximum voltage	Power consumption (W) Approx.	Operate time (ms)	Release time (ms)
	FRT2B	FRT2	FRT2H						
3	18	25	45	75 Max.	10 Min.	120 Max.	FRT2B: 0.50 FRT2 : 0.36 FRT2H: 0.20	<8	<4
5	45	70	125						
6	66	100	180						
9	140	220	405						
12	280	400	720						
24	1070	1600	2880						
48	4000	-	-						

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.

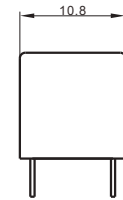
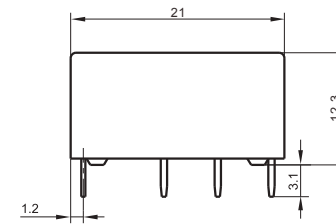
## Characteristics

Contact arrangement	DPDT (2 Form C)	
Contact material	Silver alloy (gold flash)	
Contact resistance	100m $\Omega$ Max. (at 6VDC 1A)	
Contact rating (resistive)	2A 30VDC; 1A 125VAC (Special request: 3A 28VDC)	
Switching current	3A Max.	
Switching power	125VA / 84W Max.	
Switching voltage	AC 220V / DC 30V Max.	
Insulation resistance	1,000M $\Omega$ Min. (500VDC)	
Dielectric strength	750VAC (50Hz/min) Between open contacts 1,000VAC (50Hz/min) Between coil and contact	
Shock resistance	15g Approx.	
Vibration resistance	0.35mm Double amplitude 10-55Hz	
Ambient temperature	-30°C to +70°C	
Operation life	Mechanical	10 <sup>7</sup>
	Electrical	10 <sup>5</sup> (at rated load)
Weight	5g Approx.	

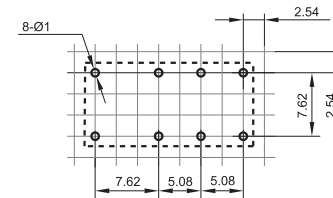
(Specifications are subject to change without notices.)

## Dimensions

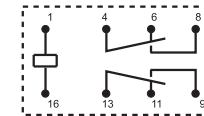
mm



Mounting holes

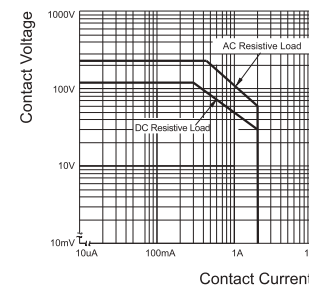


Wiring diagram (Bottom view)



## Reference data

MAXIMUM SWITCHING POWER



ENDURANCE CURVE

