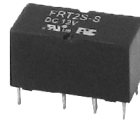


Signal Relays

El.italia serie FW-FRT2S

Features

Ultra high sensitivity
 Dual-in line configuration as IC (2.54mm)
 Conforms to FCC Part 68 1,500V surge and dielectric 1,000VAC
 Wash tight type



Part number: E141516

Ordering information

FRT2S H - S - DC12V
 1 2 3 4

1 Relay model	4 Rated voltage
2 Power consumption: B: 0.56W; NIL: 0.40W; H: 0.20W; H1: 0.15W	Note: RoHS : RoHS compliant relay; RoHS- I: AgNi contact
3 Construction: S: Wash tight type	

Coil rating

Rated voltage (V)	Coil resistance Ω +/-10%				Must operate voltage	Must dropout voltage	Maximum voltage	Power consumption (W) Approx.	Operate time (ms)	Release time (ms)
	FRT2SB (0.56W)	FRTS (0.40W)	FRT2SH (0.20W)	FRT2SH1 (0.15W)						
3	16	22.5	45	60	70 Max.	10 Min. (5 Min. for FRT2SH1 only)	FRT2SB: 140 Max.	FRT2SB: 0.56	<4.5	<1.5
5	45	62.5	125	167			FRTS: 160 Max.	FRTS: 0.40		
6	66	90	180	240			FRT2SH: 210 Max.	FRT2SH: 0.20		
9	140	203	405	540			FRT2SH1: 250 Max.	FRT2SH1: 0.15		
12	280	360	720	960						
24	1070	1440	2880	-						
48	3900	5760	11520	-						

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.

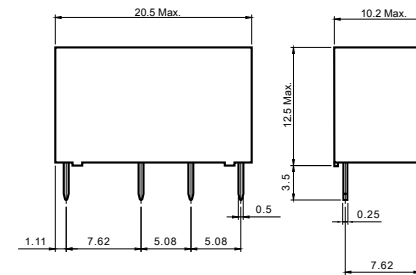
Characteristics

Contact arrangement	DPDT (2 Form C)	
Contact material	Silver alloy (gold plated)	
Contact resistance	100m Ω Max.	
Contact rating (resistive)	2A 30VDC / 0.6A 125VAC (Special request: N.O.: 3A 30VDC)	
Switching power	125VA / 90W	
Switching voltage	AC 250V / DC 220V Max.	
Insulation resistance	1,000M Ω Min. (500VDC)	
Electrostatic capacitance	0.7PF Approx. Between open contacts 1.0PF Approx. Between coil and contact 0.9PF Approx. Between contact sets	
Dielectric strength	1,000VAC (50Hz/min) Between open contacts 1,000VAC (50Hz.min) Between coil and contact (Special request: 1,500Vrms)	
Surge withstand voltage	1,500V	
Shock resistance	Functional: 10g (11ms); Destructive: 100g (6ms)	
Vibration resistance	Functional : 1.5mm Double amplitude 10-55Hz Destructive: 1.5mm Double amplitude 10-55Hz	
Ambient temperature	FRT2SB : -40°C to +65°C FRT2S : -40°C to +70°C FRT2SH/FRT2SH1: -40°C to +90°C	
Operation life	Mechanical	10 ⁷
	Electrical	1 x 10 ⁵ (AgNi); 3 x 10 ⁵ (AgPd)
Weight	4.5g Approx.	

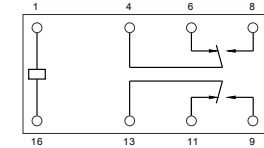
(Specifications are subject to change without notices.)

Dimensions

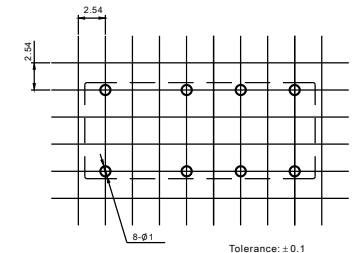
mm



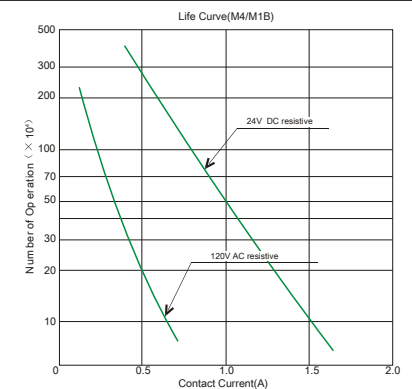
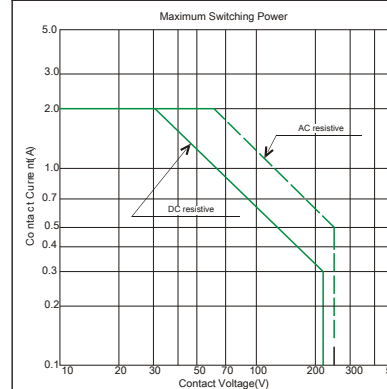
Wiring diagram (Bottom view)



Mounting holes



Reference data



Reference data

