

FRM9



- Miniature slim type relay
- SPST (NO) and SPDT (NO, NC) configurations
- Wide operating range
- Well use for security, industrial and automation applications
- Sealed type is available

Pending

Technical data

Characteristics

- Contact Arrangement: SPST (1 Form A), SPDT (1 Form C)
- Contact Material: Silver Alloy
- Contact Resistance: 100mΩ Max. (Measured at 1A 6VDC)
- Contact Rating (Resistive Load): 5A 250VAC/30VDC
- Max. Switching Voltage: 250VAC/30VDC
- Operate Time (Initial): 10 ms Max.
- Release Time (Initial): 5 ms Max.
- Insulation Resistance: 1000MΩ Min. (500V DC)
- Dielectric Strength:
 - 1000V AC (50 Hz/min.) between open contacts
 - 2000V AC (50 Hz/min.) between coil and contact
- Surge Voltage (between contact and coil): 4000VAC (At 2 x 10ms)
- Shock Resistance:
 - Functional: 100m/s² (11+/-1s)
 - Destructive: 500m/s² (6+/-1s)
- Vibration Resistance: 3.3mm Double Amplitude, 10-55 Hz
- Ambient Temperature: -45 °C to +85 °C
- Humidity: 45 - 85% RH
- Operation Life:
 - Mechanical: 10⁷
 - Electrical: 10⁸ (At rated load)
- Weight: 8g Approx.

Coil rating

Rated Voltage (V DC)	Coil Resistance Ω +/- 10%		Rated Current (mA)		Must operate voltage	Must dropout voltage	Maximum voltage	Power consumption (W)
	FRM9	FRM9H	FRM9	FRM9H				
3	25	36	120	83.3	70 Max.	5 Min.	130 Max.	FRM9: 0.36 Approx. FRM9H: 0.25 Approx.
5	69	100	72.5	50				
6	100	145	60	41.4				
9	225	325	40	27.7				
12	400	575	30	20.9				
18	900	1300	20	13.8				
24	1600	2310	15	10.4				
48	6400	9220	7.5	5.2				

Ordering information

FRM9	H	C	-	S	DC 12V	Rated voltage
						NIL: Unsealed type S: Sealed type
						Contact arrangement: A = 1 Form A C = 1 Form C
						Power consumption: NIL: 0.36W H: 0.25W
						Relay model

DIMENSIONS (mm)

