

FRS10M



- Subminiature light weight relay
- 15Amp continuous contact rating 105 °C
- Low coil power consumption
- 20A 16VDC switching rating
- Sealed type is available
- Silent type (FRS10MQ) is available

Technical data

Characteristics

- Contact Arrangement: SPST (1 Form A), SPST (1 Form B) SPDT (1 Form C)
- Contact Material: Silver Alloy
- Contact Resistance: 50mΩ Max.
- Contact Rating (Resistive Load): 20A/16VDC
- Switching Voltage: DC 75V Max.
- Operate Time (Initial): <10 ms
- Release Time (Initial): <5 ms
- Insulation Resistance: 250MΩ Min. (500V DC)
- Dielectric Strength:
 - 500V AC (50 Hz/min.) between open contacts
 - 500V AC (50 Hz/min.) between coil and contact
- Shock Resistance: 10g Approx.
- Vibration Resistance: 1.5mm Double Amplitude, 10-50Hz
- Ambient Temperature: -40 °C to +105 °C
- Humidity: 20 - 85% RH
- Operation Life:
 - Mechanical: 10⁷
 - Electrical: 10⁵ (At rated load)
- Weight: 10g Approx.

Coil rating

Rated Voltage (VDC)	Coil Resistance Ω +/- 10%	Rated Current (mA)	Must operate voltage	Must dropout voltage	Maximum voltage	Power consumption (W)
			% of rated voltage (at +20 °C)			
6	45	133.3				
12	180	66.6	55 Max.	10 Min.	130 Max.	0.8 Approx.
24	720	33.3				

Ordering information

FRS10M C - S - DC 12V

Rated voltage

NIL: Dust cover

S : Sealed type

Contact arrangement:

A: 1 Form A

B: 1 Form B

C: 1 Form C

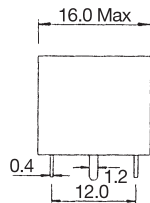
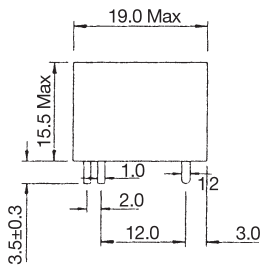
Relay model:

FRS10M - Standard type

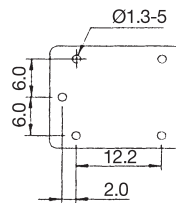
FRS10MQ - Silent type

DIMENSIONS (mm)

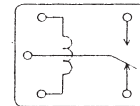
FRS10M
Standard type



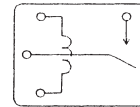
Mounting Holes



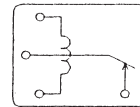
Terminal Arrangement
(Bottom view)



1 Form C

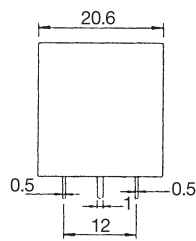
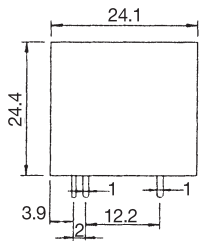


1 Form A

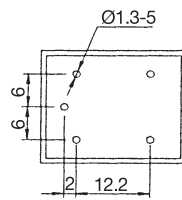


1 Form B

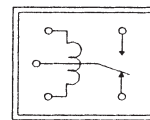
FRS10MQ
Silent type



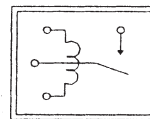
Mounting Holes



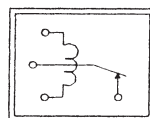
Terminal Arrangement
(Bottom view)



1 Form C



1 Form A



1 Form B