

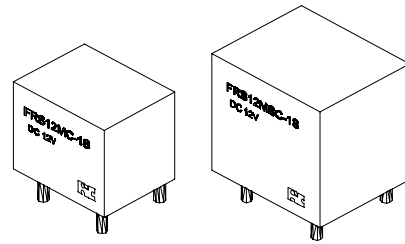
FRS12M RELAY



CAR CONTROL MINIATURE RELAY

FEATURES

Compact light weight structure
High resistance to vibration and shock
Switching capacity up to 20A
Silent type is available. Noise has been reduced by 10dB approximately.
Car automatic applications :
I.e. : Alarm system, automatic door, locking system, etc.
Dust cover or sealed type



SPECIFICATIONS

COIL RATING

RATED VOLTAGE (V DC)	COIL RESISTANCE $\Omega \pm 10\%$		RATED CURRENT (mA)		MUST OPERATE VOLTAGE (V)	MUST DROPOUT VOLTAGE (V)	POWER CONSUMPTION (W)
	FRS12M-1	FRS12M-2	FRS12M-1	FRS12M-2			
6	45	60	133	100	60% at 20°C 75% at 85°C	8% at 20°C 10% at 85°C	FRS12M -1 : 0.8 FRS12M -2 : 0.6
9	100	135	90	66			
12	180	240	66	50			
24	720	960	14.4	14.4			

CHARACTERISTICS

Contact Arrangement	SPST (1 FORM A), SPDT (1 FORM C)
Contact Material	Silver Alloy
Contact Resistance	50m Ω Max.
Contact Rating (Resistive Load)	20A 14VDC (25A/1hr at 25°C) For 1 Form U : 2 x 10A / 14VDC For UL Rating : NO : 20A 14VDC/ 10A 120VAC ; NC : 10A 14VDC 1/2 HP 125VAC TV-5 120VAC
Switching Voltage	DC 75V Max.
Operate Time (Initial)	10ms Max.
Release Time (Initial)	5ms Max.
Insulation Resistance	100M Ω Min. (500V DC)
Dielectric Strength	500VAC (50Hz/min.)
Shock Resistance	10g Approx.
Vibration	1.5mm Double amplitude, 10-55Hz
Ambient Temperature	Storage : -40°C to +100°C Operate : -40°C to +85°C
Humidity	20 - 85% RH
Operation Life	Mechanical : 10 ⁷ Electrical : 10 ⁵
Weight	FRS12M : 6g Approx. FRS12MS : 10g Approx.

[Specifications are subject to change without notices.]

FORWARD INDUSTRIAL COMPANY. (O/B COMMERCIAL UNION LTD)

RM. 1405, Wu Sang House, 655 Nathan Road, Mongkok, Kowloon, Hong Kong.

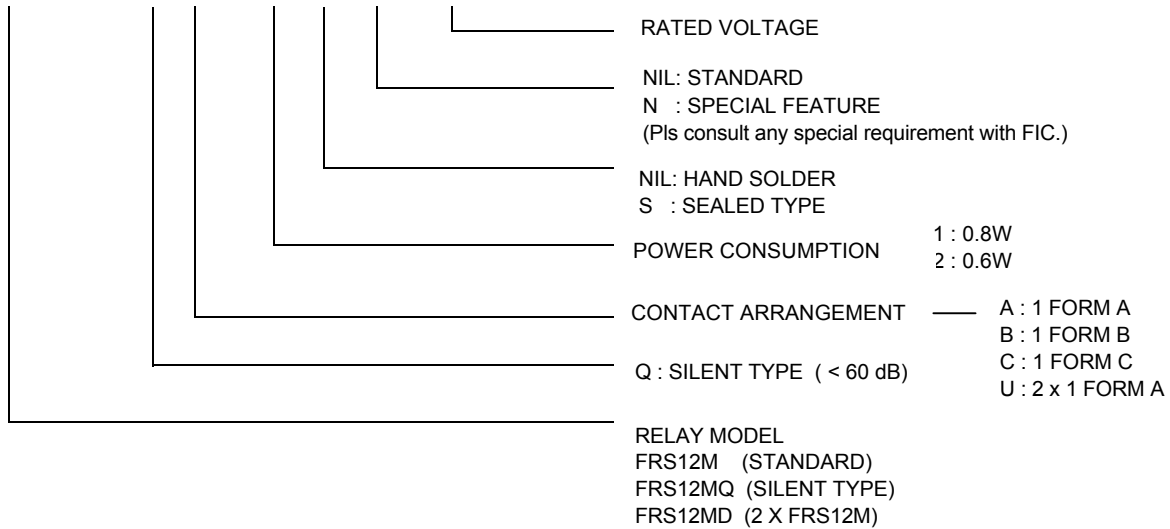
TEL : (852) 27892365 FAX : (852) 27893102 E-MAIL : sales@ficrelay.com.hk WEBSITE : <http://www.ficrelay.com.hk>

FRS12M RELAY



ORDERING INFORMATION

FRS12M Q C - 1 S N DC 12V



Note : Pb-Free and RoHS compliant relays are available.

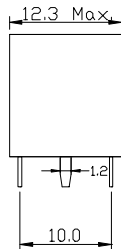
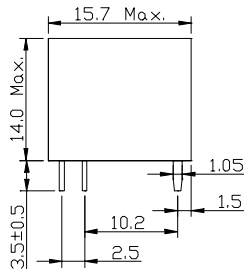
For ordering, please add suffix "Pb-Free" or "RoHS" to standard relay part numbers.

For example : FRS12MC-1S DC 12V "Pb-Free" for Pb-Free Relay

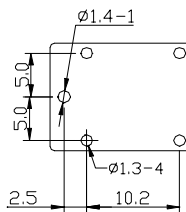
For example : FRS12MC-1S DC 12V "RoHS" for RoHS Compliant Relay

DIMENSIONS(Unit:mm)

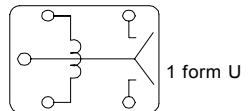
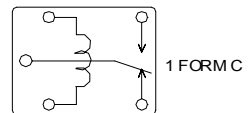
FRS12M - STANDARD TYPE



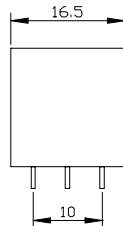
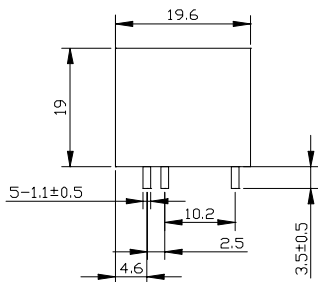
MOUNTING HOLES



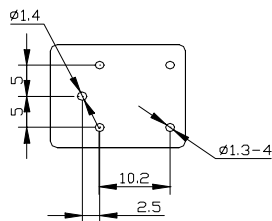
TERMINAL ARRANGEMENT (BOTTOM VIEW)



FRS12MQ - SILENT TYPE



MOUNTING HOLES



FRS12MD (2 x FRS12M)

