

# S12M

# PIC RELAY

## CAR CONTROL MINIATURE RELAY

### FEATURES

Compact light weight structure

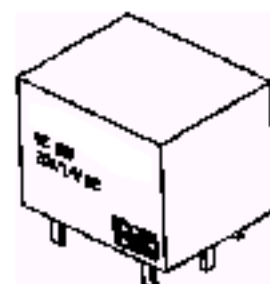
High resistance to vibration and shock

Switching capacity up to 20A

Silent type is available. Noise has been reduced by 10dB approximately.

Car automatic applications, such as alarm system, automatic door, locking system, etc.

Dust cover or sealed type



### SPECIFICATIONS

#### COIL RATING

RATED VOLTAGE (V DC)	COIL RESISTANCE $\Omega$ +/- 10%		MUST DROPOUT VOLTAGE (mA)		MUST OPERATE VOLTAGE (V)	MUST DROPOUT VOLTAGE (V)	POWER CONSUMPTION (W)
	S12M-1	S12M-2	S12M-1	S12M-2			
6	45	60	133	100	60% at 20°C 75% at 85°C	8% at 20°C 10% at 85°C	S12M -1 : 0.8 S12M -2 : 0.6
9	100	135	90	66			
12	180	240	66	50			
24	720	960	14.4	14.4			

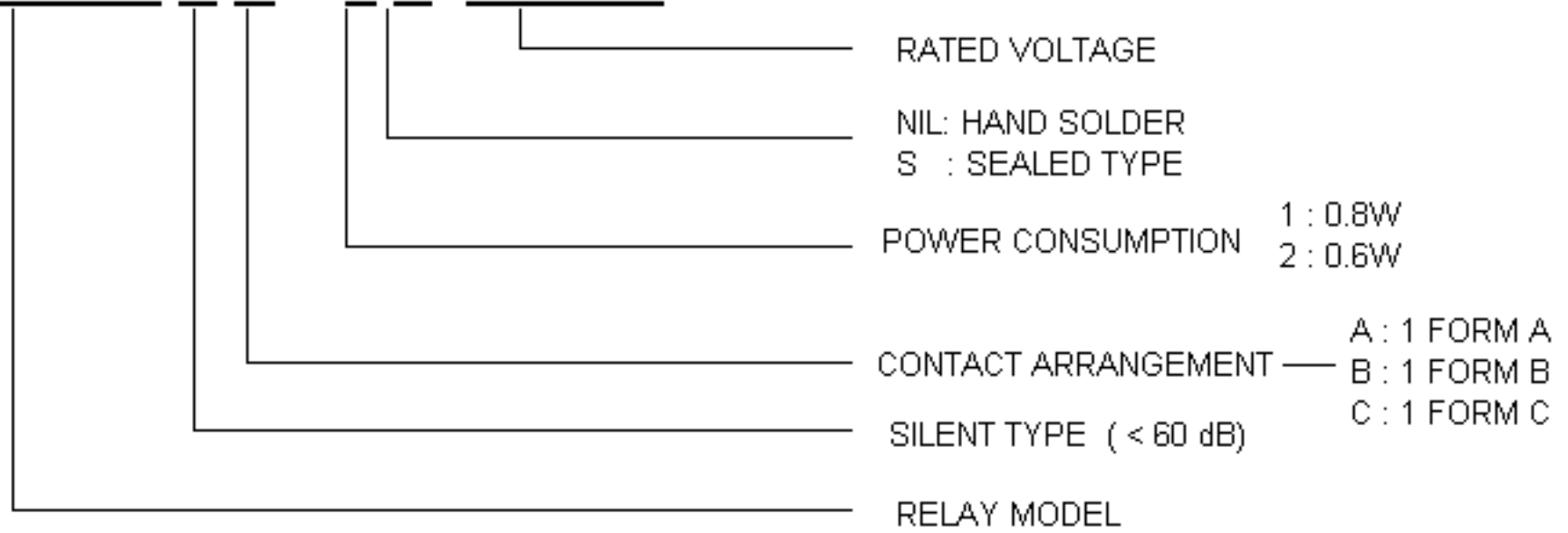
#### CHARACTERISTICS

Contact Arrangement	SPST (1 FORM A), SPDT (1 FORM C), SPST (1 FORM B)
Contact Material	Silver Alloy
Contact Resistance	50m $\Omega$ Max.
Contact Rating (Resistive Load)	20A 14VDC (25A/1hr at 25°C)
Switching Voltage	DC 75V Max.
Operate Time	10ms Max.
Release Time	5ms Max.
Insulation Resistance	100M $\Omega$ 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 <sup>7</sup> Electrical : 10 <sup>5</sup>
Weight	S12M : 6g Approx. S12MS : 10g Approx.

[Specifications are subject to change without notices.]

## ORDERING INFORMATION

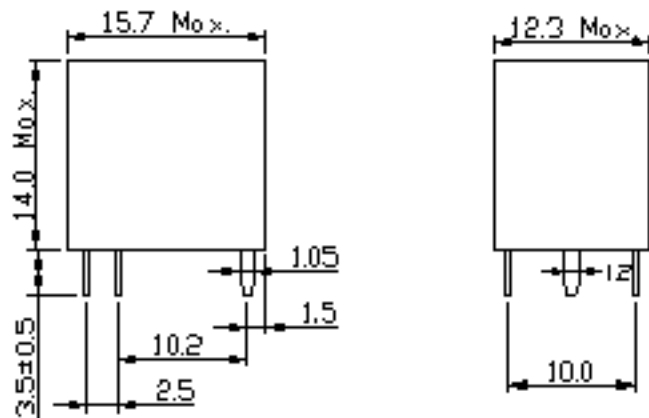
**S12M S C - 1 S DC 12V**



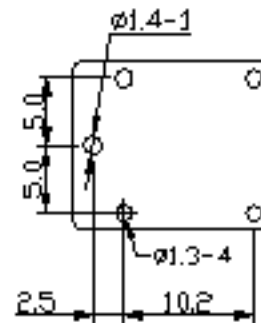
(i.e. S12MC-1S DC 12V is a SPDT, 0.8W, fully sealed version with 12VDC relay.)

## DIMENSIONS(Unit:mm)

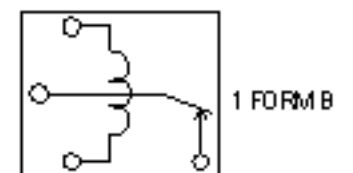
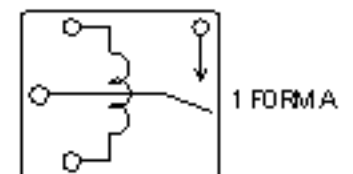
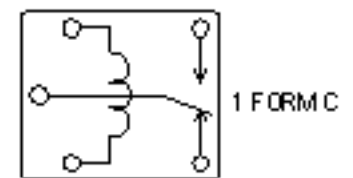
### S12M - STANDARD TYPE



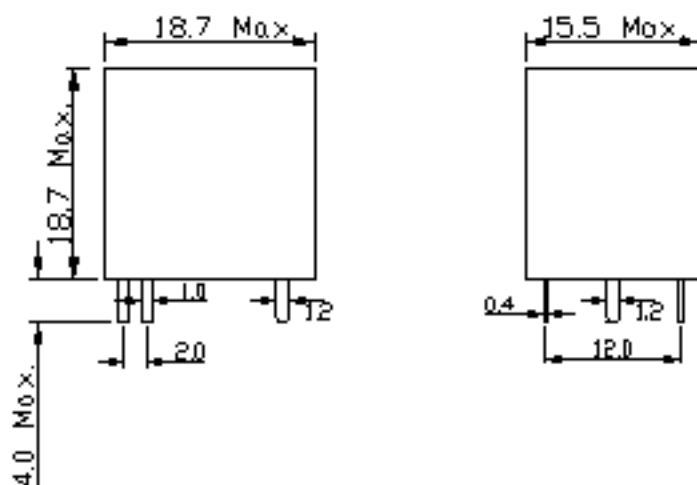
### MOUNTING HOLES



### TERMINAL ARRANGEMENT (BOTTOM VIEW)



### S12MS - SILENT TYPE



### MOUNTING HOLES

