

# FRS1 RELAY



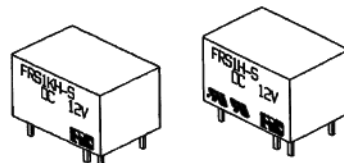
## Subminiature SPDT RELAY

### FEATURES

- Low coil power consumption
- Small size and low cost
- PCB mounting, DIL pitch terminal
- Standard and high sensitive operation use
- Dust cover or sealed type



Recognized File No: E141516(N)



### SPECIFICATIONS

#### COIL RATING

| RATED VOLTAGE<br>(V DC) | COIL RESISTANCE<br>$\Omega$ +/- 10 % |         |          | MUST OPERATE VOLTAGE          | MUST DROPOUT VOLTAGE | MAXIMUM VOLTAGE | POWER CONSUMPTION                                  |
|-------------------------|--------------------------------------|---------|----------|-------------------------------|----------------------|-----------------|--|
|                         | FRS1(K)B                             | FRS1(K) | FRS1(K)H | % OF RATED VOLTAGE (AT +20°C) |                      |                 | (W)  |
| 3                       | 20                                   | 25      | 45       | 75 Max.                       | 10 Min.              | 110 Max.        | FRS1(K)B: 0.45<br>FRS1(K) : 0.36<br>FRS1(K)H: 0.20 |
| 5                       | 56                                   | 70      | 120      |                               |                      |                 |  |
| 6                       | 80                                   | 100     | 180      |                               |                      |                 |  |
| 9                       | 180                                  | 220     | 400      |                               |                      |                 |  |
| 12                      | 320                                  | 400     | 700      |                               |                      |                 |  |
| 24                      | 1280                                 | 1600    | 2800     |                               |                      |                 |  |

#### CHARACTERISTICS

|                                 |   |
|---------------------------------|---|
| Contact Arrangement             | 1 Form C (SPDT)   |
| Contact Material                | Silver Alloy (Gold Flash)   |
| Contact Resistance              | 50m $\Omega$ Max.   |
| Contact Rating (Resistive Load) | 1A 125VAC / 30VDC<br>2A 125VAC / 30VDC<br>3A 125VAC / 30VDC<br>5A 125VAC / 30VDC (Only available for "B" type -- 0.45W) |
| Switching Voltage               | DC60V Max. AC220V Max.  |
| Operate Time (Initial)          | 5ms Max.  |
| Release Time (Initial)          | 5ms Max.  |
| Insulation Resistance           | 100M $\Omega$ Min. ( 500V DC)   |
| Dielectric Strength             | 500Vrms, 1 minute between open contacts<br>500Vrms, 1 minute between coil and contact                                   |
| Shock Resistance                | 10g Approx.   |
| Vibration                       | 10-55Hz, Double Amplitude 1.5mm   |
| Ambient Temperature             | -25°C to +75°C  |
| Operation Life                  | Mechanical : 10 <sup>7</sup><br>Electrical : 10 <sup>5</sup>  |
| Weight                          | 4g Approx.  |

[Specifications are subject to change without notices.]

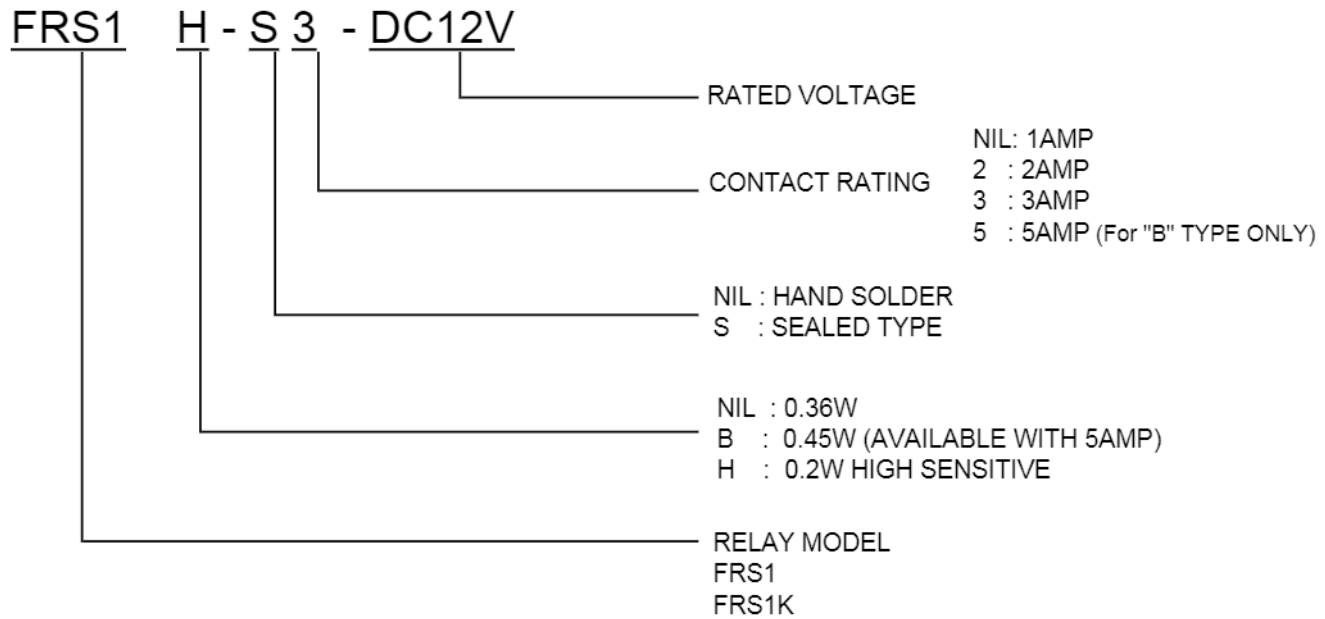
## FORWARD INDUSTRIAL COMPANY. (O/B COMMERCIAL UNION LTD)

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>



## ORDERING INFORMATION



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

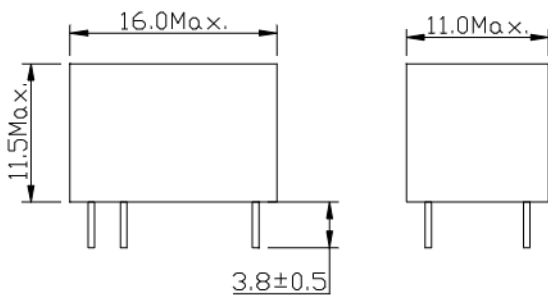
For ordering, please add suffix "Pb-Free" or "RoHS" to standard relay part numbers.

For example : FRS1-S3 DC 12V "Pb-Free" for Pb-Free Relay

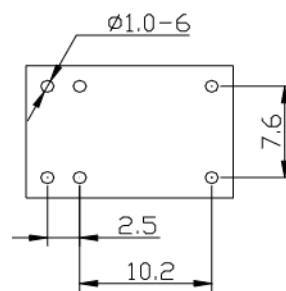
For example : FRS1-S3 DC 12V "RoHS" for RoHS Compliance Relay

## DIMENSIONS (UNIT:mm)

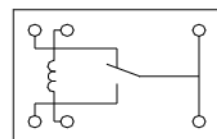
### FRS1



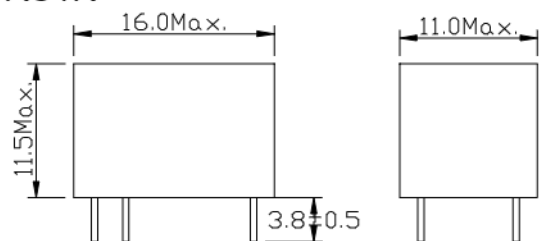
### MOUNTING HOLES



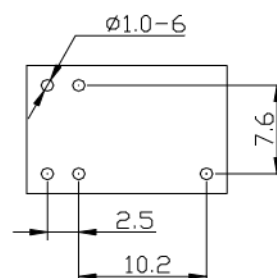
### TERMINAL ARRANGEMENT (BOTTOM VIEW)



### FRS1K



### MOUNTING HOLES



### TERMINAL ARRANGEMENT (BOTTOM VIEW)

