

Main Feature

- 1. Miniature size (17.2 mm length x 12.1 width x 16.2
- height) on SAM-1P for smaller occupying space.

 2. Large Switching current (DC15V 20A/DC 24V 15A) available by employing high conductivity movable spring material and smaller internal resistance is reached by distributing stationery contact terminal near to external connection part, and also with connection of common terminal to other place, the heat radiation is suppressed to the minimum.
- 3. Wide operating temperature as follows; Coil Voltage: 1.2 times against rated coil voltage 80°C....14A, 70°C...16A, 60°C....18A. If terminal-resistance polyurethan magnet wire is used on coil, 20A switching current will be available on coil voltage of 1.2 times against rated coil voltage at 80°C.
- 4. Easy PC Board design available as the location of contact terminal is separated from each contact.
- 5. SAM-2P is consisted of 2 pieces of SAM-1P and capsulated by one cover and the location of terminals are distributed for easy pattern design on N.O. and N.C. contact terminal.

Application:

Car Control Switching Box (Alarm System, Automatic Door Locking System.... etc.)

Insulation Resistance............. 100 Mega Ω Min. at

Contact Rating:

| Nominal Load(Resistive Lo | $pad Cos \varphi = 1)$ |
|---------------------------|--------------------------|
| Contact Capacity | SAM 1 Pole : |
| | N.O.: 10A at 24VDC |
| | N.C.: 7A at 24VDC |
| | SAM 2 Poles : |
| | N.O.: 15A at 15VDC. |
| | N.C.: 10A at 15VDC. |
| Rated Carrying Current | 15A. |
| Max. Allowable Current | 20A. |
| Max. Allowable Voltage | DC 30V. |
| Max. Allowable Power For | ce.240 W. |
| Min. Switching Load | DC 10V ,10mA. |
| Contact Material | AgSnO ₂ -Aup. |
| Contact Form | SPDT, SPST, DPDT, |
| | DPST. |

Performance (at Initial Value)

| | Contact Resistance | 100 mΩ Max.@1A,6VDC |
|---|------------------------------------|------------------------|
| | Operate Time | 9 / |
| | Release Time | |
| | Dielectric Strength : | |
| | Between Coil & Contact | 500VAC at 50/60 Hz |
| • | Between Contacts Surge Resistance | for one minute. |
| | | & contact 1.2x30μ3cc.) |

| • | modifical resistance | 500VDC. |
|---|------------------------|-------------------------------------|
| ı | Max. On/Off Switching: | |
| | Electrical | 30 Ops per Minute. |
| | Mechanical | |
| i | Temperature Range | |
| | Humidity Range | |
| | Coil Temperature Rise | |
| | Vibration : | |
| | Endurance | . 10 to 55 Hz dual |
| | | amplitude width 1.5mm. |
| | Error Operation | . 10 to 55 Hz dual |
| | • | amplitude width 1.5mm. |
| | Shock: | - |
| | Endurance | 1,000 m/S ² Min. |
| | Error Operation | $100 \text{ m/S}^2 \text{ Min.}$ |
| | Life Expectancy : | |
| | Mechanical | 10 ⁷ Operations at No |
| | | load condition. |
| | Electrical | 10 ⁵ Operations at Rated |
| | | Resistive Load. |
| | Weight | SAM-1P : 7.6 g. |
| | | SAM-2P : 15 g. |
| _ | | |
| | | AT 1 |

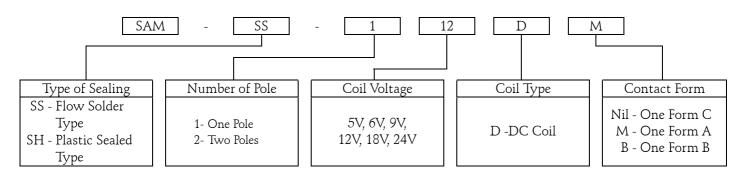
Safety Standard & Its File Number:

NIL.

Coil Specification (at 20 °C):

| Coil Sensitivity | Nominal Voltage (VDC) | Nominal Current (mA) | Coil Resistance (Ω±10%) | Power Consumption (W) | Pull-In Voltage (VDC) | Drop-Out Voltage (VDC) | Maximum Allowable Voltage (VDC) |
|------------------|--------------------------|-------------------------|----------------------------|-----------------------------|--------------------------|---------------------------|--|
| SAM-1P SAM-2P | 5 | 91 | 55 | Abt. 0.45 | 75% Maximum | 5% Minimum | |
| | 6 | 75 | 80 | | | | 150% but for short time carrying current |
| | 9 | 50 | 180 | | | | |
| | 12 | 38 | 320 | | | | |
| | 18 | 25 | 720 | | | | |
| | 24 | 19 | 1,280 | | | | |

Ordering Information:



Dimension:

