

# Vibration Switch **PVB Series**



## FEATURES

1. Small size & compact space.
2. Special structure increased strength between body and base, perfect appearance.
3. All plastic material subject to industrial purpose meets with UL94V-0 grade; high temperature and fireproof function.
4. Sealed type available for heavy humidity environment, free from bad connection problem caused by contact oxidized.
5. Suitable to IC trigger signal.

## SPECIFICATIONS

### ELECTRICAL

#### PVB-01, 02 model

1. Contact rating: 25mA, 24VDC
2. Switching type: Normal open(NO)
3. Insulation resistance: 1000 MΩ Min. at 100VDC
4. Dielectric strength: 500VDC Min. for 1 minute
5. Capacitance: 5pF Max.

### MECHANICAL AND ENVIRONMENTAL

#### PVB-01, 02 model

1. Temperature range  
Operating: -25°C to +70°C  
Storage: -40°C to +85°C
2. Pull force of terminals: 500 gf for 1 minute
3. Operation life: 100,000 cycles
4. Humidity: 95%RH, 40°C for 96 Hrs.
5. Vibration: Per MIL-STD-202F, Method 204D
6. Solderability: After flux 230±5°C for 5±0.5 seconds, 95% coverage
7. Soldering heat resistance: 183°C soldering tin (63Sn/37Pb), 30W soldering iron 350±5°C, 3 seconds(Max.)

### MATERIALS

#### PVB-01 model

1. Body: ZINC alloy, tin plated over nickel.
2. Base: Glass-fiber polyamide, UL 94V-0
3. Terminal: Copper alloy, gold plated over nickel
4. Spring: Copper alloy

#### PVB-02 model

1. Body: Copper alloy, tin plated over nickel.
2. Metal cover: Copper alloy, tin plated over nickel.
3. Base: Glass-fiber polyamide, UL 94V-0
4. Terminal: Copper alloy, gold plated over nickel
5. Spring: Stainless steel
6. Cu-ball: Copper alloy, gold plated over nickel

#### PVB-03 model

1. Body: ZINC alloy, tin plated over nickel.
2. Base: Glass-fiber polyamide, UL 94V-0
3. Terminal: Copper alloy, gold plated over nickel
4. Cu-ball: Copper alloy, gold plated over nickel

## APPLICATIONS

#### PVB-01 model

Suitable to stroke signal applied such as toys, sporting shoes, earthquake detecting system, bicycle alarms, car alarms, and home security systems, etc., occasions that request for vibration or stroke detecting functions

#### PVB-02 model

Suitable to stroke signal applied such as step counters, earthquake detecting system, bicycle alarms, car alarms, tire centrifugal force detecting, and home burglar device, etc., occasions that request signal detecting for single direction or one axis of vibration.

#### PVB-03 model

it's suitable to light vibration detecting such as burglar alarms, toys, sporting shoes, earthquake detecting systems, cordless mouse power saving, bicycle alarms, car alarms and home burglar alarms, etc., occasions that request for vibration or stroke detecting functions.

## PART NUMBERING SYSTEM

{1} PVB — {2} 01 {3} 01 {4} 00

{1} Series name: PVB: Vibration switch

{2} Model no.: Contact type: 01, 02, 03

{3} Terminal: 01, 02

{4} Option: 00: Standard, 01~99: Special

#### PVB-03 model

1. Contact rating: 25mA, 24VDC
2. Switching type: Normal close(NC)

#### PVB-03 model

1. Temperature range  
Operating: -25°C to +70°C  
Storage: -40°C to +85°C
2. Pull force of terminals: 500 gf for 1 minute
3. Operation life: 1,000,000 cycles
4. Conductive rate(switch-on rate): Min. over 90%
5. Humidity: 95%RH, 40°C for 96 Hrs.
6. Vibration: Per MIL-STD-202F, Method 204D
7. Solderability: After flux 230±5°C for 5±0.5 seconds, 95% coverage
8. Soldering heat resistance: 183°C soldering tin (63Sn/37Pb), 30W soldering iron 350±5°C, 3 seconds(Max.)

