Selecting PCB Basic Switches

Selecting PCB Basic Switches According to Environmental Conditions

Use the Basic Switch with the sealing and grade that are suitable to the dirt, gas, dust, and water droplets conditions. **Basic Switches**

Dirt Water Degree of Gas Models **Environmental resistance** Sealing and droplets protection dust D2A D3DC D3C Dirt and dust hardly enter the IP00 Δ Actuator section D2X Switch. No protection is D3D Terminal provided against gas, water, section oil, or other liquids D2S If there is a possibility that the D3V-01 D2F Switch will be subject to water or other liquid, use a D2RV D2MQ IP40 Δ Basic Switch with IP67 Dirt and dust hardly enter the Basic Switches by reducing D2MC D₂D protection or use a Limit the gaps at the actuator section (the pushbutton and case), D3M Switch. between the case and cover, and at terminal section by SS SS-P means of giving mating sections interlocking shapes. These Switches provide superior dust resistance and water resistance because they D2VW models with terminals have no gaps inside the Actuator section sealing 0 IP67 D2SW models with terminals Switches, for example, at the (except (except D2SW-P models with terminals actuator section or between @ . (C 0 terminal terminal D2HW models with terminals the case and cover. The sections) sections) D2JW models with terminals terminal sections are exposed. D2QW models with terminals so if there is a possibility that the Switch will be subject to water or other liquid, use a model with lead wires. D2VW models with lead wires Actuator section sealing The actuator, between the D2SW models with lead wires case and cover, and the D2SW-P models with lead wires 0 0 **IP67** terminal section are all Δ D2HW models with lead wires sealed to keep out dirt, dust, D2JW models with lead wires gas, and water. D2FW-G models

Note: 1. O: Can be used, Δ : Some models can be used (check which models.), \times : Cannot be used.

2. Also refer to Safety Precautions for All Basic Switches.

Temperature and Humidity

 Check the ambient operating temperature range for each model. (with no icing or condensation)

Shock and vibration resistance

- In the characteristics specifications, malfunction due to vibration or shock means that the contacts open for longer than 1 ms.
- Select Switches that have wide contact gaps and lightweight operating sections.

Selecting Microload Models

If you are switching a microload, we recommend Basic Switches that have contact specifications suited to the application zone in the microload range, as shown in the following figure.

