Thank you very much for purchasing Panasonic products. Please read this Instruction Manual carefully and thoroughly for the correct and optimum use of this product. Kindly keep this manual in a convenient place for quick reference.

### Safety Precautions

In this operation instruction sheet, safety precautions are categorized in order of importance to Warning and Caution:

**WARNING**

Warning notices are used to emphasize that improper operation may cause severe personal injury or death.

- **Do not insert the SG-K21S from below as shown in the figure on the right. Otherwise the SG-K21S may fall because of vibration.**

- **Ensure that the actuator is inserted completely. Loose insertion may cause unstable operation of contacts. Also, loose insertion may inhibit the door from opening, causing the damage on the actuator.**

- **Take care not to catch your finger and your hands when sliding the actuator.**

- **When the actuator is inserted from above as shown in the figure on the right, do not apply excessive shock (100m/s² or more) to the SG-K21S when the actuator is removed, otherwise malfunction will be caused.**

- **The SG-K21S can be used for SG-B2 interlock switch only. Do not use the SG-K21S for other products.**

- **Do not ruin the functions of the SG-K21S by modifying or disassembling.**

- **When using the SG-K21S for safety-related equipment in a control system, refer to the safety standards and regulations in each country and region depending on the application purpose of the actual machines and installations to make sure of correct operation. Also, perform risk assessment to make sure of safety before starting operation.**

- **Read the instruction sheet of the interlock switch used.**

- **Note the projections on the SG-K21S when using to prevent injury.**

- **Regardless of door types, do not use the SG-K21S as a door lock. Install a separate lock such as a metal hook.**

- **When the direction to insert the SG-K21S into the interlock switch is different from the opening/closing direction of the door, do not open the door while the SG-K21S is inserted into the interlock switch.**

- **When a worker enters the danger zone, take a measure such as using Padlock Hasp (SG-PH2) together so that the worker is not confined, and the machine is not started by mistake.**

**CAUTION**

Caution notices are used where inattention might cause personal injury or damage to equipment.

### 1 Specifications

- **Applicable model**: SG-B2 interlock switch
- **Weight**: Approx. 125g
- **Mechanical durability**: 1,000,000 operations min.
- **Stroke of operation**: 40.0 mm
- **Direct Opening Force**: 80N minimum

#### Interlock switch is not supplied with SG-K21S and must be ordered separately.

Refer to the specifications of the SG-B2 interlock switch for the specifications of the interlock switch used.

### 2 Precautions for Operation

**WARNING**

- **When using the SG-K21S for safety-related equipment in a control system, refer to the safety standards and regulations in each country and region depending on the application purpose of the actual machines and installations to make sure of correct operation. Also, perform risk assessment to make sure of safety before starting operation.**

- **Read the instruction sheet of the interlock switch used.**

- **Note the projections on the SG-K21S when using to prevent injury.**

- **Regardless of door types, do not use the SG-K21S as a door lock. Install a separate lock such as a metal hook.**

- **When the direction to insert the SG-K21S into the interlock switch is different from the opening/closing direction of the door, do not open the door while the SG-K21S is inserted into the interlock switch.**

- **When a worker enters the danger zone, take a measure such as using Padlock Hasp (SG-PH2) together so that the worker is not confined, and the machine is not started by mistake.**

**CAUTION**

- **The above recommended tightening torques of the mounting screws are the values confirmed with hex socketed head bolts. When other screws are used and tightened to a smaller torque, make sure that the screws do not become loose after mounting.**

### 3 Adjustment

**The standard for Mounting the actuator**

#### SG-B2 interlock switch

- **For mounting the SG-K21S (M5 screw) *1**

<table>
<thead>
<tr>
<th>Name or Use</th>
<th>Screw Tightening Torque</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>4.5~5.5 N ~ m</td>
</tr>
</tbody>
</table>

### 4 Dimensions (mm)

- **Dimension**

<table>
<thead>
<tr>
<th>Dimension</th>
<th>106</th>
<th>36.2</th>
<th>34</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width</td>
<td>56</td>
<td>14</td>
<td></td>
</tr>
<tr>
<td>Height</td>
<td>56</td>
<td>56</td>
<td></td>
</tr>
<tr>
<td>Thickness</td>
<td>5</td>
<td>5</td>
<td></td>
</tr>
</tbody>
</table>

- **Mounting Hole Layout**

<table>
<thead>
<tr>
<th>6</th>
<th>SG-K21S</th>
</tr>
</thead>
<tbody>
<tr>
<td>32.5</td>
<td>Mounting holes (M5 Screw)</td>
</tr>
<tr>
<td>34</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **When using with SG-B2 interlock switch**

- **When using with SG-B2 interlock switch, make holes on the height adjustment plate and fixate the actuator on at least four positions (positions A and B) shown above, using mounting screws.**

### 5 Precaution for Disposal

- **Dispose of the SG-K21S as an industrial waste.**