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

**SAFETY NOTE**

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

---

**1 Type**

<table>
<thead>
<tr>
<th>Type</th>
<th>Door number code</th>
<th>Cable length</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>SG-A1</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

**2 Specifications and Ratings**

- **Applicable Standards**
  - SG-A1□-□□-□□: IEC60947-1, IEC60947-5-1
  - CSA C32.3 No. 14, GB14048.5, IEC60947-5-1

<table>
<thead>
<tr>
<th>Applicable Standards</th>
<th>Output/Control</th>
<th>Rated Voltage</th>
<th>Rated Current</th>
<th>Rated Frequency</th>
<th>Rated Temperature</th>
<th>Storage Temperature</th>
<th>Humidity</th>
<th>Size (W×H×D)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC 50/60 Hz</td>
<td>250V AC</td>
<td>250V AC</td>
<td>2A</td>
<td>50/60 Hz</td>
<td>-20°C to +70°C</td>
<td>-40°C to +70°C</td>
<td>85%</td>
<td>90×90×40</td>
</tr>
</tbody>
</table>

- **Applicable Wire**
  - Copper: AWG no. 18 to 26
  - Silicon rubber: 300°C, 250 V

- **Ratings approved by safety agencies**
  - UL/TUV: 134, 304, 1008, UL9243
  - SGS: 55V, 110V, 250V, 400V

---

**3 Adjustments**

- **Maximum Radius of Hinged Door**
  - When using the safety switch for a hinged door, the minimum radius of the applicable door is shown in the following figures.

- **When using U-shaped actuator (SG-K12)**

- **When using angle adjustable actuator (SG-K13 / SG-K14)**
  - (Horizontal Adjustment)
  - (Vertical Adjustment)

---

**4 Notes for Operation**

- **Installation**
  - Regardless of door type, do not use the safety switch as a door stop.
  - Install a mechanical door stop at the end of the door to protect the safety switch against an excessive force.
  - Do not install both safety switch and actuator on the movable door, otherwise failure will occur.

- **Mounting**
  - When bending cable at wiring, secure the cable radius of 40 mm at the minimum.
  - Do not fasten and loosen the conduit at the bottom of the safety switch.

- **Avoiding Shock**
  - Do not apply an excessive shock to the safety switch when opening or closing the door. A shock to the safety switch may cause a breakdown or an accident.

---

**5 Limitation**

- **Contact Configuration and Operation**

---

**6 Dimensions**

- **Safety Switch**
  - Type: SG-A1

---

**7 Precaution for Disposal**

Dispose of SG-A1 as an industrial waste.

---

**Contact information for CE**

Panasonic Marketing Europe GmbH
Panasonic Testing Center
Wandegang 15, 22520 Hamburg, Germany

Phone: +49-40-9405-2781, FAX: +49-40-9405-3567

---

**Panasonic Industrial Devices SUNX Co., Ltd.**

http://panasonic.net/id/pidsx/global

Overseas Sales Division (Head Office)
2431-1 Ushiyama-cho, Kasugai-shi, Aichi, 486-0901, Japan
Phone: +81-568-33-7861, FAX: +81-568-33-8591

For sales network, please visit our website.