The PRSU/2 Safety Interface Controller is compatible and intended for use with Tapeswitch pressure-sensitive safety edges, mats and ribbon switches. Safety Category 3 and PLe per “EN ISO 13849-1” are achievable if a four-wire fail-safe configuration is used (see below). If instead a 2-Wire configuration is used, Safety Category 1 is achievable. For additional information, please reference the latest version of the PRSU/2 Manual at Tapeswitch.com.
# Technical Data

## Electrical Data

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supply Voltage $U_v$</td>
<td>PRSU/2</td>
</tr>
<tr>
<td>Voltage Range</td>
<td>$24\text{V}<em>\text{DC}$ or $24\text{V}</em>\text{AC}$</td>
</tr>
<tr>
<td>Frequency</td>
<td>$48\text{Hz (min)}$ to $62\text{Hz (max)}$</td>
</tr>
<tr>
<td>Power Consumption (typ.)</td>
<td>$24\text{V}<em>\text{DC}$: 2.5W, $24\text{V}</em>\text{AC}$: 2.5VA</td>
</tr>
</tbody>
</table>

### 4-Wire Safety Switches

- Maximum Short Circuit Resistance: $\leq 5\ \Omega$
- Maximum Signal Wires Resistance: $\leq 1\ \Omega$

## Conductor Data

- Conductor Connection: 2 x 1.5 mm$^2$ solid wire, 2 x 1.5 mm$^2$ stranded wire-end ferrule
- UL: Use 60/75°C copper wire only!

### Conductor Cross-Section

- Capacitance/cable length: 150 nF/km (maximum)

### Reference Temperature

- $+25^\circ\text{C}$

## Contact Data

- Contact Allocation: 2 N.O. safety
- Contact Type: Relay positive guided
- Contact Material: AgSnO$2$ or comparable material
- Switching Voltage: 250V$_\text{AC}$, 24V$_\text{DC}$
- Max. Switch/Relay Current: 6A (individual), 13.8A (combined)
- Min. Switching Current: 10mA
- Max. Switching Capability (per relay): AC 15 3 A
- DIN EN 60947-5-1: DC 13 3 A
- Max. Switching Capacity: 1500 VA (resistive load)

### Creeping Distance and Clearance

- EN 50178 at pollution grade 2, over voltage category 3 / 250V
- Basis isolation: over voltage category 3 / 250 V
- NO contact: 6.3A brief or 4A inert
- NO-contacts: 10A

## Mechanical Data

- Housing Material: Polyamide PA 6.6
- Dimensions (W x H x D): 22.5mm x 114.5mm x 99mm
- Fastening: Click-fastening for DIN-Rail
- Torque Setting for Connection Terminals: 0.5 Nm (min), 0.6 Nm (max)
- Weight with Terminals: Max. 185g

### Environmental Data

- Operating Temperature: $-25^\circ\text{C ... +55^\circC}$ (UL: ...$+40^\circ\text{C}$)
- Terminal Type: IP 20
- Housing Type: IP 40
- Shock Resistance of N.O Contacts: 5g, 33Hz

### Certifications

- Tested I.A.W.: EN ISO 13849-1
- Performance Level e, Cat. 4
- 99% (high)
- Achieved: 69 years (high)
- PFH$_D$: 3.8 * $10^{8}$ 1/h