Safety Input Box
SIB 061

with 6 safe inputs
1 double clock output signal (short circuit proof)

The Safety Input Box SIB 061 has the Safety integrity level SIL3 or SILCL 3 (EN / IEC 62061) or Performance-level e (PL e) (EN ISO 13849-1/-2). The Safety inputs are used for reading 6 actuator signals (Emergency Stop, confirmation button etc.).

To test inputs and detect crossed circuits (e.g. Emergency Stop), the SIB 061 has 2 non-safe signal outputs, TA and TB.

### Input Specifications

<table>
<thead>
<tr>
<th>Number</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input voltage</td>
<td>+24 V DC</td>
</tr>
<tr>
<td>Input voltage range</td>
<td>minimum +18 V</td>
</tr>
<tr>
<td>Signal level</td>
<td>low: ≤ +5 V</td>
</tr>
<tr>
<td>Switching threshold</td>
<td>typically +13 V</td>
</tr>
<tr>
<td>Input current</td>
<td>3 mA at +24 V</td>
</tr>
<tr>
<td>Input delay</td>
<td>0.5 ms</td>
</tr>
</tbody>
</table>

### Signal Output Cross-Circuit Detection Specifications

<table>
<thead>
<tr>
<th>Number</th>
<th>3x signal A</th>
<th>3x signal B</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated output voltage</td>
<td>+24 V DC</td>
<td></td>
</tr>
<tr>
<td>Output voltage range</td>
<td>minimum +18 V</td>
<td>maximum +30 V</td>
</tr>
<tr>
<td>Output current</td>
<td>100 mA at +24 V</td>
<td></td>
</tr>
<tr>
<td>Miscellaneous</td>
<td>short-circuit proof</td>
<td></td>
</tr>
</tbody>
</table>

### Electrical Requirements

- **Supply voltage**: +24 V DC
- **Supply voltage (UL)**: +24-30 V DC (Class 2)
- **Supply voltage range**: +18-30 V DC
- **Current consumption** (+24 V power supply, own consumption): typically 35 mA

### CAN Bus

- **Baud rate**: 500 kBit/s
- **Max. cable length**: 80 m
- **Terminating resistor**: 120 Ω internal

### Article Number and Miscellaneous

- **Article number**: 20-895-081
- **Dimensions**: 95.5 x 73.5 x 16 mm (W x H x D)
- **Standard**: UL in preparation

### Environmental Conditions

- **Storage temperature**: -20 ... +85 °C
- **Environmental temperature**: -10 ... +60 °C
- **Humidity**: 0-95 %, non-condensing
- **Installation altitude above sea level**: 0-2000 m without derating
  > 2000 m with derating of the maximum environmental temperature by 0.5 °C per 100 m
- **Operating conditions**: pollution degree 2
- **EMC resistance**: in accordance with 61000-6-7:2015 (Generic standards - Immunity requirements for equipment intended to perform functions in safety-related systems (functional safety) at industrial locations) in accordance with EN 61000-6-2:2007 (industrial area) (increased requirements in accordance with IEC 62061)
- **EMC noise generation**: in accordance with EN 61000-6-4:2007 (industrial area)
- **Vibration resistance**: EN 60068-2-6 3.5 mm from 5-8.4 Hz
  1 g from 8.4-150 Hz
- **Shock resistance**: EN 60068-2-27 15 g
- **Protection type**: EN 60529 IP20

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