Emergency stop coupling relay for failsafe controllers in process engineering

- Connects digital output signals from failsafe controllers to the peripherals (valves, etc.) for electrical isolation and power adaptation
- Long service life due to filtering of controller test pulse, prevents early relay failure
- With installed and replaceable fuse in the enabling current path
- Like all PSR safety relays, equipped with positively driven contacts as per EN 50205
- Simple proof test as per IEC 61508 due to integrated signaling contact
- Enables controllers on request

Note:
More products with SIL approval are given on page 28. Connection examples are given from page 35.

<table>
<thead>
<tr>
<th>Description</th>
<th>Type</th>
<th>Order No.</th>
<th>Pcs. / Pkt.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emergency stop coupling relay for failsafe controllers in process engineering</td>
<td>PSR-SCP- 24DC/FSP/1X1/1X2</td>
<td>2981978</td>
<td>1</td>
</tr>
<tr>
<td>With spring-cage connection</td>
<td>PSR-SPP- 24DC/FSP/1X1/1X2</td>
<td>2981981</td>
<td>1</td>
</tr>
</tbody>
</table>

**Technical data**

**Input data**
- Nominal input voltage $U_{IN}$: 24 V DC
- Permissible range (based on $U_{IN}$): 0.85 to 1.1
- Typ. current consumption (with reference to $U_{IN}$): 45 mA
- Typ. operating time ($K_1, K_2$) at $U_{IN}$: 50 ms
- Typ. release time ($K_1, K_2$) at $U_{IN}$: 75 ms
- Recovery time: 1 s

**Output data**
- Contact type: 1 enabling current path undelayed, 1 confirmation current path undelayed
- Contact material: AgCuNi, + 0.2 µm Au
- Max. / min. switching voltage: 250 V AC/DC / 15 V AC/DC
- Limiting continuous current: 5 A (N/O contact, pay attention to the derating), 100 mA (N/C contact)
- Max. / min. inrush current: 5 A / 5 mA
- Min. switching power: 75 mW
- Switch capacity (3600 h cycles): 24 V (DC 13) 5 A ; 230 V (AC 15) 5 A
- Short circuit protection of the output circuits: 5 A T fuse

**General data**
- Ambient temperature range: -20°C ... 75°C
- Clearances and creepage distances between circuits: DIN EN 50178
- Rated voltage: 250 V AC
- Rated surge voltage / insulation: 6 kV / Safe isolation, reinforced insulation
- Pollution degree / Surge voltage category: 2 / III
- Dimensions: Screw version 17.5 mm / 114.5 mm / 99 mm
- Spring-cage version 17.5 mm / 114.5 mm / 112 mm

**Example of electrical isolation of a safety PLC output from the field.**

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**Note:**

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- Connection examples are given from page 35.