The FLM-420-RLV8-S Octo-relay Interface Module Low Voltage features eight changeover contact relays for providing potential-free output contacts.

It is a 2-wire LSN element. When connected to the fire panels FPA-5000 and FPA-1200, the interface module offers the enhanced functionality of LSN improved technology.

**Functions**

**Relay function**
The eight changeover contact relays of the FLM-420-RLV8-S allow for a separate connection of up to eight single external elements.

The maximum contact load (resistive load) is 2 A / 30 V DC or 0.5 A / 42.4 V AC.

**Address switches**
The addresses of the interface modules are set by rotary switches.

In case of a connection to the Local SecurityNetwork LSN improved version, the operator can select automatic or manual addressing with or without auto-detection. In LSN mode classic, connection to the fire panels BZ 500 LSN, UEZ 2000 LSN and UGM 2020 is possible.

**LSN features**
Integrated isolators ensure that function is maintained in the event of a short circuit or line interruption in the LSN loop. A fault indication is sent to the fire panel.

**Features of LSN improved version**
The interface modules of the 420 Series have all features of the improved LSN technology:

- Flexible network structures including T-tapping without additional elements
- Up to 254 LSN improved elements per loop or stub line
- Unshielded cable can be used
- Downwards compatible with existing LSN systems and control panels.

**Certifications and Approvals**
Complies with

- EN54-17:2005
- EN54-18:2005
The interface module has terminals blocks to allow a second pair of wires to be looped through to an auxiliary power to supply downstream connected elements.
- The cables are fed through rubber bushings or PG cable glands.
- The pluggable terminal blocks allow for an easy wiring even if the interface module is built in.
- Use included spacers when mounting on uneven surface.
- For a fire system operation according to EN 54-2, the interface modules used for the activation of fire protection equipment and whose outputs are not monitored, must be installed directly next to or within the device which shall be activated.

### Parts Included

<table>
<thead>
<tr>
<th>Type</th>
<th>Qty.</th>
<th>Component</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLM-420-RLV8-S</td>
<td>1</td>
<td>Octo-relay Interface Module Low Voltage, in housing for surface mounting</td>
</tr>
</tbody>
</table>

### Technical Specifications

#### Electrical

<table>
<thead>
<tr>
<th>Description</th>
<th>Connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>+U</td>
<td>0V</td>
</tr>
<tr>
<td>LSN</td>
<td>a1-</td>
</tr>
<tr>
<td>LSN-POWER</td>
<td>+U</td>
</tr>
<tr>
<td>LSN</td>
<td>a2-</td>
</tr>
<tr>
<td>REL1 ... REL8</td>
<td>NC</td>
</tr>
</tbody>
</table>

- Can be connected to the fire panels FPA-5000 and FPA-1200 and the classic LSN fire panels BZ 500 LSN, UEZ 2000 LSN and UGM 2020.
- Programming is done with the programming software of the fire panel.
- The LSN connection is established by the two wires of the LSN line.

#### Mechanical

- Connections: Screw terminals
- Wire diameter: 0.6 to 3.3 mm²
- Address setting: 3 rotary switches
- Material: ABS + PC-FR
- Housing color: Signal white, RAL 9003
- Dimensions: Approx. 140 x 200 x 48 mm (W x H x D)
- Weight (without/with packing): Approx. 490 g / 810 g
### Environmental conditions

<table>
<thead>
<tr>
<th>Description</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Permissible operating temperature</td>
<td>-20 °C to +65 °C</td>
</tr>
<tr>
<td>Permissible storage temperature</td>
<td>-25 °C to +80 °C</td>
</tr>
<tr>
<td>Permissible rel. humidity</td>
<td>&lt; 96% (non-condensing)</td>
</tr>
<tr>
<td>Classes of equipment as per IEC 60950</td>
<td>Class III equipment</td>
</tr>
<tr>
<td>Protection class as per IEC 60529</td>
<td>IP 54</td>
</tr>
</tbody>
</table>

### Ordering Information

**FLM-420-RLV8-S Octo-relay Interface Module Low Voltage**

2-wire LSN element with eight changeover contact relays for providing potential-free output contacts, in housing for surface mounting
FLM-420-RLV8-S Octo-relay Interface Module Low Voltage

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