FPC-7034 IDC expander, 4-point

The FPC-7034 Four-point Expander doubles the number of alarm initiating device circuits on the FPD-7024 Fire Alarm Control Panel (FACP). These circuits are identical to the circuits on the FACP. This plug-in module is automatically recognized by the control panel's firmware when power is restored to the system.

### Certifications and approvals

<table>
<thead>
<tr>
<th>Region</th>
<th>Regulatory compliance/quality marks</th>
</tr>
</thead>
<tbody>
<tr>
<td>USA</td>
<td>UL UL 864, Control Units and Accessories for Fire Alarm Systems</td>
</tr>
<tr>
<td></td>
<td>FM FPC-7034</td>
</tr>
<tr>
<td></td>
<td>CSFM see <a href="http://www.boschsecurity.com">www.boschsecurity.com</a> (the Bosch website)</td>
</tr>
<tr>
<td></td>
<td>FDNY-CoA 6173</td>
</tr>
</tbody>
</table>

### Installation/configuration notes

**Compatible Products**
The FPC-7034 is compatible with the FPD-7024 FACP. For a list of compatible smoke detectors, see the FPD 7024 Smoke Detector Compatibility List Technogram.

- Adds four Class B or two Class A initiating circuits to the FPD-7024 FACP
- For use with normally-open (NO) or normally-closed (NC) alarm contacts
- Compatible with two-wire or four-wire smoke detectors
- Up to 20 two-wire smoke detectors per circuit
- Easy installation due to plug-in design and screw terminal circuit connections

**Notice**
When four-wire smoke detectors are used, power must be supplied to the detectors from either the control panel or an external power source.

**Mounting Considerations**
The FPC-7034 mounts on the FPD-7024 control board, just to the right of the keypad. Use the four nylon stand-offs supplied with the expander.

**Initiating Circuit Wiring**
Circuit connection for the expansion initiating circuits is identical to the on-board circuit configuration. For wiring details, see the FPD-7024 Installation Guide. Install a supplied EOL resistor at the end of each wiring run.

### Parts included

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Component</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Four-loop expander board</td>
</tr>
<tr>
<td>4</td>
<td>2.21 kΩ End-of-Line (EOL) resistors (P/N: 25899)</td>
</tr>
</tbody>
</table>
## Technical specifications

### Environmental Considerations

<table>
<thead>
<tr>
<th>Environment</th>
<th>Indoor, dry</th>
</tr>
</thead>
<tbody>
<tr>
<td>Relative Humidity</td>
<td>Up to 95%, non-condensing</td>
</tr>
<tr>
<td>Temperature (operating)</td>
<td>+32°F to +122°F (0°C to +50°C)</td>
</tr>
</tbody>
</table>

### Mechanical Properties

<table>
<thead>
<tr>
<th>Dimensions (HxWxD)</th>
<th>2.0 in. x 4.5 in. x 1.3 in. (5.1 cm x 11.4 cm x 3.3 cm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Response Time</td>
<td>Choice of fast (500 ms) or programmable from 1 sec to 89 sec</td>
</tr>
</tbody>
</table>

### Power Requirements

**per initiating circuit:**

| Alarm Current (short circuit) | 40 mA maximum |

**Alarm Current (threshold):** >25 mA

**Detector Standby Current (total):** 3 mA maximum

**Loop Supervision Current:** 8.0 mA to 15.0 mA

**Trouble Current Threshold:** <7 mA

**Voltage (supply):** 18.0 VDC to 25.5 VDC

**per FPC-7034 module:**

<table>
<thead>
<tr>
<th>Current (standby)</th>
<th>60 mA maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current (alarm)</td>
<td>160 mA maximum</td>
</tr>
</tbody>
</table>

### Ordering information

**FPC-7034 IDC expander, 4-point**

The FPC-7034 adds four Class B or two Class A initiating circuits to the FPD-7024 FACP. This plug-in module is automatically recognized by the control panel’s firmware when power is restored to the system.

**Order number FPC-7034**

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