The D7053 MUX input/output module (12V) is a general purpose device that monitors a normally-open (NO), supervised contact device. It provides a separately controlled Form C relay output. The module connects to the multiplex bus of an FPD-7024, D7024 or DS9400M FACP. It configures as either Class A or Class B and addresses using rotary switches. All operating power for the module is drawn from the control panel's multiplex bus. An on-board status LED indicates normal, alarm, and trouble conditions.

Notice
The D7024 and DS9400M are legacy products listed to UL864, 8th edition.

Certifications and approvals

<table>
<thead>
<tr>
<th>Region</th>
<th>Regulatory compliance/quality marks</th>
</tr>
</thead>
<tbody>
<tr>
<td>USA</td>
<td>UL</td>
</tr>
<tr>
<td></td>
<td>UL 864, Control Units and Accessories for Fire Alarm Systems</td>
</tr>
<tr>
<td></td>
<td>FM</td>
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<td></td>
<td>see the FM Approval Guide</td>
</tr>
</tbody>
</table>

Notice
The D7024 and DS9400M are legacy products listed to UL864, 8th edition.

Use with FPD-7024, D7024, or DS9400M addressable FACP
Fits into a standard double-gang or four-inch square back box
Easy addressing using rotary switches
Low current draw

Region | Regulatory compliance/quality marks
---|---
CSFM | see www.boschsecurity.com (the Bosch website)
FDNY-CoA | 6173

Installation/configuration notes

Compatible Products
The D7053 is compatible with the FPD-7024, D7024*, and DS9400M* Fire alarm control panels. The modules connect to the FACP through an expansion module. Use the FPE-7039 with the FPD-7024 FACP or the D7039* with either the FPD-7024 or D7024* FACP. Use the DS9431* Multiplex expansion module with the DS9400* FACP.

* Legacy product - not available for purchase. The D7024 and DS9400 FACP are listed to UL 864, 8th edition

Mounting
Mount the module on a double-gang or four-inch square back box.
Wiring
Make connections to the terminals on the rear of the module. All terminals can accommodate up to 12 AWG (ISO 4 mm²) wire. However, follow wiring guidelines specified by the National Electrical Code (NFPA-70). All wiring is power limited and supervised.

Notice
Do not use shielded wire.

Supervise the Class B input loop with the supplied EOL resistor.

Parts included

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Component</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>D7053 module</td>
</tr>
<tr>
<td>1</td>
<td>2.21 kΩ end-of-line (EOL)</td>
</tr>
<tr>
<td></td>
<td>resistor (P/N: F.01U.034.504)</td>
</tr>
<tr>
<td>1</td>
<td>Literature pack</td>
</tr>
</tbody>
</table>

Technical specifications

**Electrical**

- **MUX bus circuit designation**: Supervised Class A SLC or Class B SLC
- **Input Type**: One normally-open (NO) Class B contact input supervised by a 2.21 kΩ EOL resistor (P/N: F.01U.034.504)
- **Relay outputs**: One set of Form C (NO/C/NC) contacts rated for 120 VAC at 0.5 A, 24 VDC at 1.0 A .resistive loads only
- **Power from FACP’s MUX bus**
  - **Current**: 0.70 mA
  - **Voltage (minimum)**: 8 V peak (12 VDC nominal)

**Environmental**

- **Environment**: Indoor, dry
- **Radio Frequency Interference (RFI) Immunity**: No lockup or alarm on critical frequencies ranging from 26 MHz to 950 MHz for field strengths <30 V/m
- **Relative Humidity**: Up to 93% non-condensing
- **Temperature (operating)**: +32°F to +120°F (0°C to +49°C)

**Mechanical**

- **Color**: White
- **Dimensions (L x W x H)**: 4.80 in. (12.2 cm) x 1.97 in. (5.0 cm) x 4.88 in. (12.4 cm)
- **Material**: ABS plastic
- **Weight**
  - **Gross**: 0.80 oz. (0.227 kg)
  - **Net**: 0.67 oz. (0.189 kg)

**Trademarks**

All hardware/software product names used in this document are likely to be registered trademarks and must be treated accordingly.

**Ordering information**

D7053 Multiplex input/output module, 12V

Connects normally-open (NO) contacts to the multiplex bus of an FPD-7024, D7024, or DS9400M FACP in configures as either Class A or Class B configuration

Order number D7053