The D8125MUX Multiplex Bus Interface Module and associated modules are used to expand the compatible Bosch control panels beyond their standard number of onboard initiating zones or points. The D8125MUX module is installed in the control panel enclosure, and is connected to either Zonex 1 or Zonex 2 on the control panel where it scans the multiplex (MUX) points connected to it and reports the points’ status to the control panel. Point index programming then determines if an action on the part of the control panel is required (alarm response, trouble response, and so on).

### Functions

**Two Independent Buses**
The multiplex bus interface can control two independent buses. A fault on one MUX bus does not prevent the other from operating normally.

**Aux Power Terminals**
The D8125MUX has Aux Power terminals labeled Power A (+,-) and Power B (+,-) that can be used for remote devices that require an uninterrupted source of power. Up to 200 mA are available at these terminals.

- Multiplex bus controls two independent buses
- Aux Power terminals that can be used for remote devices
- Programmed with D5060 Handheld Programmer (not required for "i" class modules)
- Operation monitoring LED
- Connect to Zonex 1 or Zonex 2

### Notice
Observe correct polarity when connecting devices to these power terminals.

**D5060 Hand-held Programmer**
Use the D5060 Multiplex Point Programmer to program multiplex bus points. The D5060 is not required when programming "i" class modules. In addition to programming points, use the D5060 to view the MUX device point number.

### Certifications and approvals

<table>
<thead>
<tr>
<th>Region</th>
<th>Certification</th>
</tr>
</thead>
<tbody>
<tr>
<td>USA</td>
<td>UL AMCX: Central Station Alarm Units (UL1610, UL1635), AOTX: Local Alarm Units (UL464, UL609), APAW: Police Station Alarm Units (UL365, UL464), APOU: Proprietary Alarm Units (UL1076), NBSX: Household Burglar Alarm System Units (UL1023), UTOU: Control Units and Accessories - Household System Type (UL985) Refer to D8125MUX Operation and Installation Guide (P/N: 36796) for UL UOJZ: Control Units, System (UL864, 9th edition)</td>
</tr>
<tr>
<td>CSFM</td>
<td>California State Fire Marshal (see our website)</td>
</tr>
</tbody>
</table>
Installation/configuration notes

Compatible Control Panels
- B9512G/B9512G-E
- B8512G/B8512G-E
- D9412GV4/D7412GV4/D7212GV4
- D9412GV3/D7412GV3/D7212GV3
- D9412GV2/D7412GV2/D7212GV2
- D9412G/D7412G/D7212G
- D9124 Fire Alarm Control Panel
- FPD-7024 Fire Alarm Control Panel

Compatibility Multiplex Modules
- DS7432 Series Eight-input Remote Modules
- DS7457i Series Single-zone Input Modules
- DS7460i Dual-zone Input Module
- DS7461i Single-zone Input Module
- DS7465i Input-output Module

Compatible Programmers
- D5060 Multiplex Programmer

Wiring
Maximum Wire Impedance: 33 Ω

<table>
<thead>
<tr>
<th>Distance (approximate)</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>610 m</td>
<td>0.8 mm</td>
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<tr>
<td>1524 m</td>
<td>1.2 mm</td>
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<tr>
<td>2000 ft</td>
<td>22 AWG</td>
</tr>
<tr>
<td>5000 ft</td>
<td>18 AWG</td>
</tr>
</tbody>
</table>

Control Panel to D8125MUX Module Wiring
The recommended wiring from the control panel to the module is quad (four-wire) cable. Do not use shielded or twisted-pair cable. If used in fire applications, 18 AWG wire is required.

Maximum Impedance: 4.05 Ω at +20°C (+68°F) nominal

<table>
<thead>
<tr>
<th>Distance (approximate)</th>
<th>Size</th>
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<tbody>
<tr>
<td>76 m</td>
<td>0.65 mm</td>
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<tr>
<td>193 m</td>
<td>1.02 mm</td>
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<tr>
<td>250 ft</td>
<td>22 AWG</td>
</tr>
<tr>
<td>600 ft</td>
<td>18 AWG</td>
</tr>
</tbody>
</table>

Data Loop Wiring
Use non-shielded wire for data loops. Do not exceed 75 mA on each MUX Bus output.

Technical specifications

Environmental Considerations
- Relative Humidity: Up to 93%, non-condensing
- Temperature (Operating): 0°C to +49°C (+32°F to +120°F)

Properties
- Board Dimensions: 14 cm x 8.3 cm x 2.5 cm (5.5 in. x 3.25 in. x 1.0 in.)

Power Requirements
- Current: 128 mA maximum
- Voltage: 12 VDC

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

Ordering information

D8125MUX Multiplex Bus Interface
Controls two independent buses.
Order number D8125MUX

Parts included

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Component</th>
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<tr>
<td>1</td>
<td>Multiplex Bus interface</td>
</tr>
<tr>
<td>1</td>
<td>Hardware pack</td>
</tr>
<tr>
<td>1</td>
<td>Literature pack</td>
</tr>
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