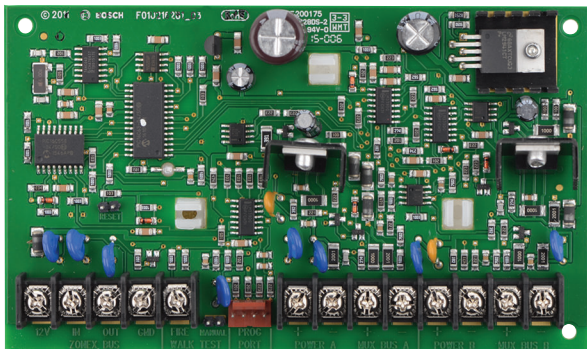# D8125MUX Expansion module, Multiplex

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BOSCH
Invented for life

▶ Multiplex bus controls two independent class-B buses

▶ Aux Power terminals that can be used for remote devices

▶ Programmed with D5060 Handheld Programmer

▶ Operation monitoring LED

▶ Connect to Zonex 1 or Zonex 2

The D8125MUX Multiplex Bus Interface Module and associated modules and detectors are used to expand the addressable points of a compatible Bosch control panel 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 class-B 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.

ℹ️ **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

Region	Regulatory compliance/quality marks	
USA	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)
	CSFM	California State Fire Marshal (see our website)

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

Distance (approximate)	Size
610 m	0.8 mm
1524 m	1.2 mm
2000 ft	22 AWG
5000 ft	18 AWG

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.

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

Distance (approximate)	Size
76 m	0.65 mm
193 m	1.02 mm
250 ft	22 AWG
600 ft	18 AWG

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

Parts included

Quantity	Component
1	Multiplex Bus interface
1	Hardware pack
1	Literature pack

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

Module current:	128 mA maximum
AUX Power A:	200 mA maximum
AUX Power B:	200 mA maximum
MUX Bus A:	75 mA maximum
MUX Bus B:	75 mA maximum
Total:	678 mA
Voltage:	12 VDC

ℹ️ **Notice**
Battery calculation is module current (128 mA), plus the AUX power load, plus MUX Device load.

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 Expansion module, Multiplex
Controls two independent buses.
Order number **D8125MUX**