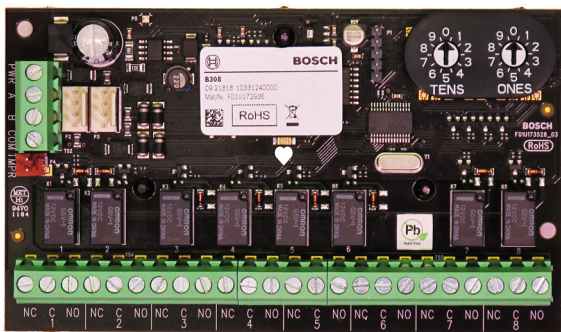


# B308 SDI2 8-Output Expansion Module

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Invented for life



- ▶ Programmable output functions
- ▶ Easy to read switch addressing
- ▶ Provides eight Form C relays
- ▶ 1 A at 5-24 VDC relay contact rating
- ▶ Allows remote control of outputs

The B308 Octo-output Module is suitable for applications requiring Form C outputs to operate auxiliary systems or to display fire system status at remote annunciators. The B308 can interface with building components such as HVAC, door lock releases, and stairwell pressurization for complete system control and monitoring. Industrial, commercial, and institutional facilities are typical installations for the B308 module. The eight on-board outputs can be programmed to activate on system alarm, system trouble, individual zone or point faults, and through remote control by authorized users.

## System overview

The B308 Octo-output Module provides eight programmable outputs. Each relay provides dry contact switching rated for 1.0 A at 5-24 VDC. The outputs are accessed through on-board screw terminal connections.

The B308 is compatible with the SDI2 bus. The on-board switches are used to specify module addresses. Control panel programming will determine output response to specific events.

The B308 receives serial data from the control panel and activates outputs in response to control panel conditions and settings. Outputs can be programmed for remote control from a keypad.

## Functions

### Output Relays

Each output provides a normally-open and a normally-closed output. Outputs can be configured in control panel programming to indicate system events.

## Certifications and approvals

| Region    | Regulatory compliance/quality marks |  |
|-----------|-------------------------------------|--|
| Australia | RCM                                 | ACMA   |
| Europe    | CE                                  | EMC, RoHS [B915, B920, B930, B430, B208, B308, B901]                       |
| USA       | UL                                  |  |
|           | UL                                  | UL 365 - Police Station Connected Burglar Alarm Units                      |
|           | UL                                  | UL 609 - Standard for Local Burglar Alarm Units and Systems                |
|           | UL                                  | UL 864 - Standard for Control Units and Accessories for Fire Alarm Systems |
|           | UL                                  | UL 985 - Household Fire Warning System Units                               |
|           | UL                                  | UL 1023 - Household Burglar Alarm System Units                             |
|           | UL                                  | UL 1076 - Proprietary Burglar Alarm Units and Systems                      |

| Region | Regulatory compliance/quality marks |   |
|--------|-------------------------------------|---|
|        | UL                                  | UL 1610 - Central Station Burglar Alarm Units                                 |
|        | CSFM                                | see www.boschsecurity.com (the Bosch website)                                 |
|        | FCC                                 | Part 15 Class B   |
|        | FDNY-CoA                            | 6286 D7412GV4 D9412GV4 NYC COA 6286 2018-2021                                 |
|        | FDNY-CoA                            | 6196  |
| Canada | ULC                                 | CAN/ULC S303 - Local Burglar Alarm Units and Systems                          |
|        | ULC                                 | CAN/ULC S304 - Standard for Signal Receiving Center and Premise Burglar Alarm |
|        | ULC                                 | ULC-ORD C1023 - Household Burglar Alarm System Units                          |
|        | ULC                                 | ULC-ORD C1076 - Proprietary Burglar Alarm Units and Systems                   |
|        | IC                                  | ICES-003 - Information Technology Equipment (ITE)                             |

B4512/B4512E (Up to 3 modules)  
D9412GV4 (Up to 12 modules)  
D7412GV4 (Up to 6 modules)  
D7212GV4 (Up to 2 modules)

### Installation/configuration notes

#### Mounting considerations

Mount the module inside a compatible enclosure with the control panel, or inside of a D203 remote enclosure.

Mount up to four B308 modules in a control panel enclosure using the 3-hole mounting pattern. For additional modules, use the optional D137 Mounting Bracket.

#### Wiring considerations

The B308 connects to a control panel using the PWR, A, B, COM terminals on the control panel using the screw terminal strip or the pluggable interconnect wiring connector. Use 12 AWG to 22 AWG (2 mm to 0.6 mm) wires from the module to the control panel. Observe relay specifications (up to 24 VDC), verifying not to exceed the relay ratings.

#### Compatibility

For UL 864 compliance, use a UL commercial fire approved control panel.

|                |  |
|----------------|--|
| Control panels | B9512G/B9512G-E (Up to 59 modules)<br>B8512G/B8512G-E (Up to 9 modules)<br>B6512 (Up to 9 modules)<br>B5512/B5512E (Up to 5 modules) |
|----------------|--|

### Parts included

| Quantity | Component           |
|----------|---------------------|
| 1        | Module              |
| 1        | Hardware pack       |
| 1        | Interconnect cable  |
| 1        | Installation manual |

### Technical specifications

#### Properties

|            |   |
|------------|---|
| Dimensions | 2.9 in x 5.0 in x 0.60 in<br>(7.35 cm x 12.7 cm x 1.5 cm) |
| Weight     | 5 oz (0.14 kg)  |

#### Environmental considerations

|                         |                                |
|-------------------------|--------------------------------|
| Relative humidity       | 5% to 93% at +32°C (+90°F)     |
| Temperature (operating) | 0°C to +49°C (+32°F to +120°F) |

#### Power requirements

|                   |   |
|-------------------|---|
| Current (maximum) | Alarm: 150 mA (22 mA for digital section + 16 mA per energized relay) |
| Relay outputs     | Dry contacts rated for .001 to 1.0 A at 5 to 24 VDC (resistive load). |
| Voltage           | 12 VDC nominal  |

#### Wiring

|                    |   |
|--------------------|---|
| Terminal wire size | 12 AWG to 22 AWG (2.0 mm to 0.65 mm)  |
| SDI2 wiring        | Maximum distance – Wire size (unshielded wire only):<br>400 ft (137 m) - 22 AWG (0.65 mm)<br>1000 ft (305 m) - 18 AWG (1.02 mm) |

### Ordering information

#### B308 SDI2 8-Output Expansion Module

Provides 8 programmable relays.

Order number **B308**

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