The B901 Access Control Interface Module is a fully supervised, addressable SDI/SDI2 bus device that allows access control integration for Bosch compatible control panels. This module offers 14 programmable levels of access authority. Authority for access is controlled by the user level, the group of the user, the time of day, the door state, and the area armed state. Control each authority restriction through automatic and manual functions.

A door that has been automatically released by the control panel will require manually re-engaging to return to normal.

In a combination Fire/Intrusion system, the B901 should not be used to lock doors used for emergency egress unless these doors have a mechanical release mechanism.

**Functions**

**Reader input**
- Standard 5-wire Weigand interface.
- +5 VDC or +12 VDC supplied to power readers.
- Open collector output for reader LED.

**Unsupervised inputs**
- Tamper. Supports normally open devices.
- REX. Supports normally open devices. Request to Exit (REX) on short.
- RTE. Supports normally open devices. Request to Enter (RTE) on short.

**Supervised input**
- 1 kΩ End-of-line resistor.

**Door states**

Four door states are controlled through the keypad, RPS (Remote Programming Software), scheduled events (SKEDs), and automatic programmable functions in the door controller parameters:

- **Locked.** The lock relay can be deactivated (door allowed to open) with a valid credential or REX/RTE input.
- **Unlocked.** The Lock relay is held in the deactivated state to allow access without the need of a credential.
- **Secured.** The lock relay is activated and no access is allowed even with valid credential (overridden by Fire Unlock).
- **Fire Unlock.** The lock relay is held in the deactivated state during a Fire Alarm. This allows free access to and from the building during an emergency.

Two automatic functions link the door state to the arming state of the area:

- **Auto Door.** When the area is Off (disarmed), the door state is switched to “Unlocked”.
- **Disarm on Open.** With this function as “Yes,” a user with valid access rights activates the strike and turns off (disarms) the system after the door is opened. With this function as “No,” the area turns off (disarms) upon the strike activation.

**Indicators**

- Heartbeat LED. Blue LED blinks on and off when system is operational. A rapid three-blink sequence indicates a system error.
- Reader LED. Rapidly blinking LED indicates the Card data is being received. When the LED is off, no card data is being received.

### Regulatory information

<table>
<thead>
<tr>
<th>Region</th>
<th>Regulatory compliance/quality marks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia</td>
<td>RCM ACMA</td>
</tr>
<tr>
<td>Europe</td>
<td>CE EMC, RoHS [B915, B920, B930, B430, B208, B308, B901]</td>
</tr>
<tr>
<td>USA</td>
<td>UL Underwriters Laboratories</td>
</tr>
<tr>
<td></td>
<td>UL UL 294 - Standard for Access Control Units and Systems</td>
</tr>
<tr>
<td></td>
<td>UL UL 365 - Police Station Connected Burglar Alarm Units</td>
</tr>
<tr>
<td></td>
<td>UL UL 609 - Standard for Local Burglar Alarm Units and Systems</td>
</tr>
<tr>
<td></td>
<td>UL UL 864 - Standard for Control Units and Accessories for Fire Alarm Systems (10th edition)</td>
</tr>
<tr>
<td></td>
<td>UL UL 985 - Household Fire Warning System Units (6th edition)</td>
</tr>
<tr>
<td></td>
<td>UL UL 1023 - Household Burglar Alarm System Units</td>
</tr>
<tr>
<td></td>
<td>UL UL 1076 - Proprietary Burglar Alarm Units and Systems</td>
</tr>
<tr>
<td></td>
<td>UL UL 1610 - Central Station Burglar Alarm Units</td>
</tr>
<tr>
<td>CSFM</td>
<td>California State Fire Marshal (see our website)</td>
</tr>
<tr>
<td>FCC</td>
<td>Part 15 Class B</td>
</tr>
<tr>
<td>Canada</td>
<td>ULC Underwriters Laboratories of Canada</td>
</tr>
<tr>
<td></td>
<td>ULC CAN/ULC S303 - Local Burglar Alarm Units and Systems</td>
</tr>
<tr>
<td></td>
<td>ULC CAN/ULC S304 - Standard for Signal Receiving Center and Premise Burglar Alarm</td>
</tr>
<tr>
<td></td>
<td>ULC ULC-ORD C1023 - Household Burglar Alarm System Units</td>
</tr>
<tr>
<td></td>
<td>ULC ULC-ORD C1076 - Proprietary Burglar Alarm Units and Systems</td>
</tr>
<tr>
<td></td>
<td>IC ICES-003 - Information Technology Equipment (ITE)</td>
</tr>
<tr>
<td></td>
<td>ULC CAN/ULC S305 - Central Station Burglar Alarm Units</td>
</tr>
<tr>
<td></td>
<td>ULC CAN/ULC S306 - Accessory Alarm Units</td>
</tr>
<tr>
<td></td>
<td>ULC CAN/ULC S307 - Burglar Alarm Accessory Units</td>
</tr>
</tbody>
</table>

### Installation/configuration notes

The B901 Access Control Interface Module is individually programmed through the control panel. The module is compatible with several credential models and readers.

#### Notice

Not all products and features are available in all regions. Consult your local Bosch representative for availability details.

### Compatibility

**Bosch readers and accessories**
- ARD-AYJ12 EM Prox Mullion
- ARD-MINIPROX
- ARD-PROX-PPL
- ARD-SER90-WI
- ARD-SER40-WI
- ARD-SER10-WI
- D8223 HID Prox Wall Mount
- D8224 HID Prox Mullion
- D8224-SP Low-profile card reader, HID-prox
- D8225 HID Prox Mini Mullion
- D8229 PIN Reader

**Bosch tokens and cards**
- ACA-ATR13 EM Tokens
- ACD-ATR11ISO EM Cards
- ACD-ATR14CS EM Clamshell Cards
- ACD-IC2K26-50 iClass Cards
- ACT-IC2K26-10 iClass Tokens
- D8236-10 HID Prox Cards
- D8236KF-10 HID Prox Tokens

### Parts included

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Component</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>B901</td>
</tr>
<tr>
<td>1</td>
<td>1 kΩ ½ watt end of line resistor</td>
</tr>
<tr>
<td>1</td>
<td>Innerconnect cable (included)</td>
</tr>
<tr>
<td>3</td>
<td># 6x3/8 self-tapping screws</td>
</tr>
<tr>
<td>1</td>
<td>Literature pack</td>
</tr>
</tbody>
</table>

### Technical specifications

#### Mechanical

- Dimensions: 2.9 in x 5.0 in x 0.6 in
Intrusion Alarm Systems - B901 Door Controller

<table>
<thead>
<tr>
<th>Terminal wire size</th>
<th>18 AWG to 22 AWG (1.02 mm to 0.65 mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SDI2/SDI wiring to B901 + Reader with external power supply</td>
<td>Maximum distance - wire size (unshielded wire only): 1000 ft (305 m) - 22 AWG (0.65 mm), 2500 ft (762 m) - 18 AWG (1.02 mm)</td>
</tr>
<tr>
<td>SDI2/SDI wiring to B901 + Reader from control panel</td>
<td>175 ft (61 m) - 22 AWG (0.65 mm), 500 ft (152 m) - 18 AWG (1.02 mm)</td>
</tr>
<tr>
<td>Wiring distance from B901 to Reader</td>
<td>200 ft (61 m) - 22 AWG (0.65 mm), 500 ft (152 m) - 18 AWG (1.02 mm) Reader dependant</td>
</tr>
</tbody>
</table>

Environmental

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

Electrical

| Current | Standby: 110 mA + reader current  
Alarm: 110 mA + reader current |
| Output (alarm) | Form C relay (COM, NC, NO) at 12/24 V @ 2.0 A |
| Voltage (input) | 12 VDC nominal |

Credentials

| Compatible credential formats | 37 bit. HID H10304 (With Site Code)  
37 bit. HID H10302 (No Site Code)  
35 bit. HID H5xxxx (Corp 1000)  
32 bit. MIFARE Classic (No Site Code)  
26 bit. HID H10301 EM-EM4200 (3-byte or 5-byte) |

Ordering information

B901 Door Controller
Fully supervised, addressable SDI2/SDI bus device that allows access control integration for Bosch G and B Series Control Panels.  
Order number **B901 | F.01U.323.803**

Services

**EWE-DCTRM-IW 12 mths wrty ext door control module**
12 months warranty extension
Order number **EWE-DCTRM-IW | F.01U.352.288**

Represented by:

**Europe, Middle East, Africa:**
Bosch Security Systems B.V.  
P.O. Box 80002  
5600 JB Eindhoven, The Netherlands  
Phone: +31 40 2577 284  
www.boschsecurity.com/xc/en/contact/  
www.boschsecurity.com

**Germany:**
Bosch Sicherheitssysteme GmbH  
Robert-Bosch-Ring 5  
85630 Gräfrath  
Tel.: +49 (0) 89 6290 0  
Fax:+49 (0) 89 6290 1020  
de.securitysystems@bosch.com  
www.boschsecurity.com

**North America:**
Bosch Security Systems, LLC  
130 Perinton Parkway  
Fairport, New York, 14450, USA  
Phone: +1 800 289 0096  
Fax: +1 585 223 9180  
onlinehelp@us.bosch.com  
www.boschsecurity.com

**Asia-Pacific:**
Robert Bosch (SEA) Pte Ltd, Security Systems  
11 Bishan Street 21  
Singapore 573943  
Phone: +65 6571 2808  
Fax: +65 6571 2699  
www.boschsecurity.com/xc/en/contact/  
www.boschsecurity.com

Data subject to change without notice | © Bosch Security Systems 2023