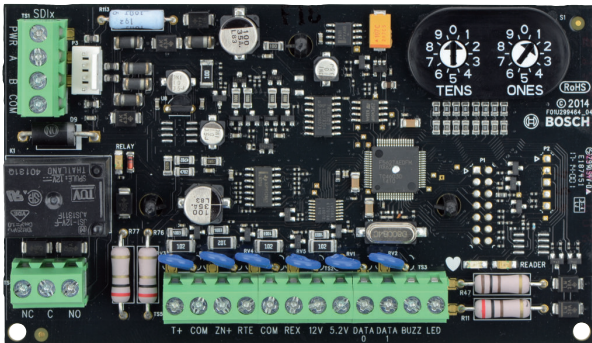


# B901 Access Control Module

www.boschsecurity.com



**BOSCH**  
Invented for life



- ▶ Direct interface to 26-bit Wiegand card readers
- ▶ Onboard buzzer output
- ▶ Supervised onboard point
- ▶ Request to Exit and Request to Enter inputs that can have a shunt only option
- ▶ Four door states: Locked, Unlocked, Secured, Fire Unlock

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.

## Functions

### Reader Input

- Standard 5-wire Wiegand 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 on short.
- RTE – supports normally open devices. Request to Enter on short.

### Supervised Input

- 1KΩ End of line resistor.
- Use for door contact.

### Door States

Four-door states are controlled through the keypad, RPS (Remote Programming Software), scheduled events (Skeds) and automatic programmable functions in the B901 parameters:

- Locked: Lock Relay de-activated thru valid credential or RTE (Request to Exit) input.
- Unlocked: allows the door to be opened for free access. Lock Relay is activated.
- Secured: does not allow access unless a Fire Unlock occurs. Valid credential or RTE will not activate relay.
- Fire Unlock: allows free access no matter what the previous door state or armed state is. This is a programmable option that can be used to allow free access into or out off the building upon a fire alarm.

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

- Auto Door: When the area is disarmed, the door state is switched to “Unlocked.”
- Disarm on Open: with this function as “Yes,” a user with valid access rights will activate the strike and disarm the system after the door is opened. With this function as “No,” the area will disarm 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.

### Certifications and approvals

Region	Certification
US	UL 294 – Access Control System Units
	UL 365 - Police Station Connected Burglar Alarm Units and Systems
	UL 609 - Local Burglar Alarm Units and Systems
	UL 864 - Control Units and Accessories for Fire Alarm Systems
	UL 985 - Household Fire Warning System Units
	UL 1023 - Household Burglar-Alarm System Units
	UL 1076 - Proprietary Burglar Alarm Units and Systems
	UL 1610 - Central Station Burglar Alarm Units
	CSFM – California Office of The State Fire Marshal
FCC Part 15 Class B	
CA	Canada CAN/ULC S303 - Local Burglar Alarm Units and Systems
	CAN/ULC S304 - Signal Receiving Centre and Premise Alarm Control Units
	ULC-ORD C1023 - Household Burglar Alarm System Units
	ULC-ORD C1076 - Proprietary Burglar Alarm Units and Systems
	ICES-003 - Digital Apparatus

### Installation/configuration notes

The B901 Access Control Interface Module is individually programmed through the control panel it is connected to.

### Parts included

Quantity	Component
1	B901
1	1 kΩ ½ watt end of line resistor
1	Innerconnect cable (included)
3	# 6x3/8 self-tapping screws
1	Literature

### Technical specifications

#### Environmental considerations

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

### Properties

Dimensions	2.9 in x 5.0 in x 0.6 in (73.5 mm x 127 mm x 15.25 mm)
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### Power requirements

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

### Wiring

Terminal wire size	18 AWG to 22 AWG (1.02 mm to 0.65 mm)
SDI2/SDI wiring to B901 + Reader with external power supply	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)
SDI2/SDI wiring to B901 + Reader from control panel	175 ft (61 m) – 22 AWG (0.65 mm), 500 ft (152 m) – 18 AWG (1.02 mm)
Wiring distance from B901 to Reader	200 ft (61 m) – 22 AWG (0.65 mm), 500 ft (152 m) – 18 AWG (1.02 mm) Reader dependant

### Compatibility

Control panels	B9512G/B9512G-E B8512G/B8512G-E D9412GV4/D7412GV4 D9412GV3/D7412GV3 D9412GV2/D7412GV2 D9412G/D7412G
Readers and accessories	ARD-AYH12 EM Prox Wall Mount ARD-AYJ12 EM Prox Mullion ARD-AYK12 EM Prox Mini Mullion ARD-AYQ12 EM Prox Wall Mount Vandal Resistant ARD-AYCE65B EM Prox or PIN Mullion ARD-R10 HID iClass Mini Mullion ARD-R40 HID iClass Wall Mount D8223 HID Prox Wall Mount D8224 HID Prox Mullion D8224-SP HID Prox Switch Plate Mount D8225 HID Prox Mini Mullion D8229 PIN Reader
Credentials	ACA-ATR13 EM Tokens ACD-ATR11 ISO 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

## Ordering information

### B901 Access Control Module

Fully supervised, addressable SDI2/SDI bus device that allows access control integration for Bosch G and B Series Control Panels.

Order number **B901**

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