

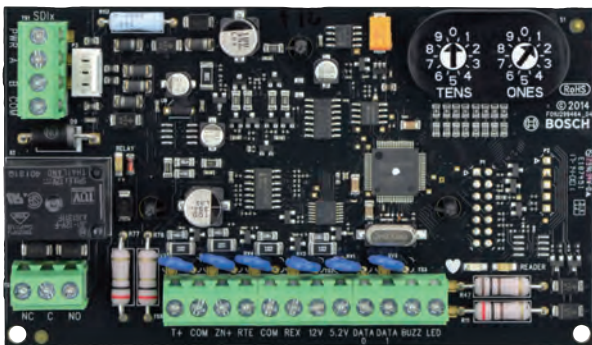
B901 Access Control Module

www.boschsecurity.com



BOSCH

Invented for life



- ▶ Direct interface to compatible Wiegand card readers
- ▶ On-board buzzer output and supervised on-board points
- ▶ Request to Exit and Request to Enter inputs that can have a shunt only option
- ▶ Four door states: Locked, Unlocked, Secured, Fire Unlock
- ▶ SDI2 support as well as SDI compatible

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 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 k Ω 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 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.

Certifications and approvals

Region	Certification	
Australia	RCM	ACMA
Europe	CE	EMC, RoHS
USA	UL	
	UL	UL 294 - Standard for Access Control Units and Systems
	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
	UL	UL 1610 - Central Station Burglar Alarm Units
	CSFM	California State Fire Marshal (see our website)
	FCC	Part 15 Class B
Canada	ULC	
	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)

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 Control panels	B9512G/B9512G-E B8512G/B8512G-E B6512 D9412GV4/D7412GV4 D9412GV3/D7412GV3 D9412GV2/D7412GV2 D9412G/D7412G
Bosch 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
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

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 pack

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

Credentials

Compatible credential formats	37 bit. HID H10304 (With Site Code) 37 bit. HID H10302 (No Site Code) 26 bit. HID H10301 EM-EM4200 (3-byte or 5-byte)
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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**

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
emea.securitysystems@bosch.com
emea.boschsecurity.com

Germany:
Bosch Sicherheitssysteme GmbH
Robert-Bosch-Ring 5
85630 Grasbrunn
Germany
www.boschsecurity.com

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

Asia-Pacific:
Robert Bosch (SEA) Pte Ltd, Security Systems
11 Bishan Street 21
Singapore 573943
Phone: +65 6571 2808
Fax: +65 6571 2699
apr.securitysystems@bosch.com
www.boschsecurity.asia