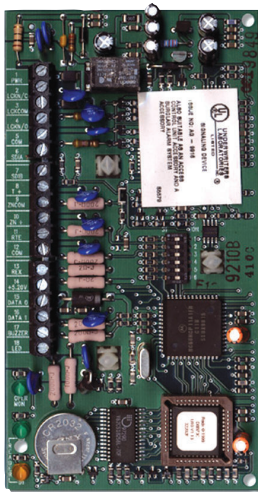# D9210B Series Access Control Interface Modules

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Invented for life

▶ Provides direct interface to 26-bit Wiegand card readers

▶ Onboard buzzer output

▶ Removable onboard relay for switching 12/24 VDC/VAC power

▶ Option to unlock or lock door upon SDI bus failure

▶ Supervised onboard point

The D9210B Access Control Interface Module Series includes the D9210B and the D9210BLC. The modules are fully supervised, addressable SDI bus devices that allow access control integration for the Bosch Security System, Inc. G Series Control Panels. These highly reliable modules offer 14 programmable levels of access authority. Authority for access is controlled by the level of the user, the time of day, the state of the door and the armed state of the area. Each of the authority restrictions can be controlled through automatic and manual functions. Users can be added to the system with local programming using the D5200, remote programming using the Remote Programming Software, or with tokens using the Add User function through the command center(s).

Functions

Inputs and Outputs
- SDI input and output: SDI A (yellow) receives data from the SDI A of the panel. The SDI B (green) returns data to the SDI B of the panel.
- The 12 VDC input: Powers the D9210B and provides a connection for the 12 VDC reader and 12 VDC buzzer.

- A supervised zone input for the door contact is physically mounted on the door to which the strike is connected. The input can be configured for shorts/opens on faults but is normal only when the 1000 kΩ resistor is in the circuit.
- The unsupervised tamper input is normal when open. Upon a short, the point number assigned to the supervised zone is reported as a MISSING PT### report.
- The unsupervised Request to Enter (RTE) and Request to Exit (REX) inputs are Normally open and share the same common terminal. The REX input generates the Door Request to Exit and is used to exit the area assigned to the D9210B without having to use an ID. The RTE generates the Door Request to Enter and is used to enter the area assigned to a D9210B Series module. Programming REX Shunt Only and RTE Shunt Only eliminates the need for a strike and would be used in applications where a push bar is used to open the door.
- The Wiegand reader input is a 5-wire input that supplies +5 VDC (use the +12 VDC terminal for 12-volt readers), negative, ground activation for the reader LED, (D1) and (D0) inputs for the card data.

- When a door is held open past the normal door sequence time, an extended door sequence time is initiated. This extended time extends the shunt and re-activates the buzzer. If programmed, [CLOSE DOOR #] will display at the control center assigned to the door.
- The buzzer output activates when the door sequence begins or if the door is left open for an extended period of time.
- The +5 VDC reader output is for ID readers that require a lower voltage than the +12 VDC readers. It provides a maximum of 150 mA.

Door States

There are 4 door states that can be controlled through the control center, the Remote Account Manager (RAM), scheduled events (Skeds) and automatic programmable functions in the D9210B Series parameters.

- Locked Door: a normal door state.
- Unlock Door: allows the door to be opened for free access.
- Secure Door: does not allow access unless a Fire Unlock occurs.
- 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 the building upon a fire alarm.

There are 2 automatic functions that control the door state based on the armed state of the area:

- Auto Door: with this function as "Yes," the door will be unlocked when the area is disarmed.
- 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.

Certifications and approvals

Australia	C-Tick	D9210B only

Region	Certification	
USA	UL	D9210B Series: 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), UOXX: Control Unit Accessories, System (UL864, 9th edition)
	UL	D9210B only: AOTX7: Local Alarm Units Certified for Canada (cULus)

Installation/configuration notes

The D9210B Access Control Interface Module Series are not programmed using a local or remote programmer. The modules must be connected to the SDI bus to function properly and receive operational programming parameters and user data.

Compatibility Information

Category	Commercial Code	Description
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
	ARD-RK40-14	HID iClass Prox or PIN 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-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
Systems	D9412GV3	Control Panel
	D7412GV3	Control Panel
	D9412GV2	Control Panel
	D7412GV2	Control Panel
	D9412G	Control Panel
	D7412G	Control Panel

Parts included

Quantity	Component
1	D9210B with D136 relay mounted on the board
1	Battery leads (for the D9210BLC)
1	1 kΩ ½ watt end of line resistor
2	Strain-relief cable ties
3	# 6x3/8 self-tapping sheet metal screws to secure the module to the mounting skirt or enclosure

Technical specifications

Alarm Inputs

Door Contact Status	1 normally-closed
Request to Enter (RTE) and Request to Exit (REX)	1 normally-open V in < 1.8 V on > 3.2 V off
SDI A, SDI B	RS-485 at 9600 baud
Tamper Input:	1 normally-open V in < 1.8 on > 3.2 V off

Alarm Outputs

+5 VDC Reader Output	V out 5 V ± .25 V for 20 to 140 load, 150 mA maximum continuous
Buzzer Output	1 rated at 5 A at 30 VDC Sink up to 35 mA from 5 VDC to 14 VDC source
Dry Contact SPDT Relay	Supports: 12 VDC at 2 A 24 VDC at 2.5 A 12/24 VAC at 40 A

Communications

Bus Compatibility	SDI Bus
Compatible Panels	Bosch Security Systems, Inc. GV3/GV2/G Series Control Panels except D7212 models
Port 1:	RS-485

Connections

Inputs	One door contact

Number of...

Access Levels	14
Card Readers (Doors)	8 (D9412GV3,GV2 and G) 2 (D7412GV3, GV2 and G)
Tokens	996 (D9412GV3, GV2 and G) 396 (D7412GV3, GV2 and G)

Environmental

Relative Humidity	5% to 85% at 86°F (30°C), non-condensing
Temperature (Operating)	+32°F to +120°F (0°C to +49°C)

Electrical

Input (DC)	12 V

Mechanical

Dimensions	(76.2 mm x 127 mm x 25.4 mm) 3 in. x 5 in. x 1 in.
Weight	93.31 g (3.29 oz)
Indicators	Three status and diagnostic LEDs

Ordering information

D9210B Access Control Interface Module
Mounted in an enclosure measuring: 20 cm x 13 cm x 7.6 cm (8 in. x 5 in. x 3 in.). Can also be mounted as a standalone unit.
Order number **D9210B**

D9210BLC Access Control Interface Module
Includes mounting screws and fasteners. No enclosure. A D9210BLC module can be installed in the same enclosure as the control panel using the mounting screws and fasteners. Two additional modules can be mounted using the D136 brackets. Use a separate power supply for the D9210B modules to isolate them from other SDI devices.
Order number **D9210BLC**

Accessories

D8103 Enclosure
Grey steel enclosure measuring 41 cm x 41 cm x 9 cm (16 in. x 16 in. x 3.5 in.).
Order number **D8103**

D8108A Attack Resistant Enclosure
Grey steel enclosure measuring 41 cm x 41 cm x 9 cm (16 in. x 16 in. x 3.5 in.). UL Listed. Includes lock and key set. Requires the D2402 Mounting Plate.
Order number **D8108A**

D8109 Fire Enclosure
Red steel enclosure measuring 40.6 cm x 40.6 cm x 8.9 cm (16 in. x 16 in. x 3.5 in). UL Listed. Includes a lock and key set.
Order number **D8109**

D8216 Mounting Bracket
Mounts low-profile proximity readers to metal doors or window frames behind glass.
Order number **D8216**

D8217 Mounting Bracket
Made of black plastic. Mounts low-profile proximity readers to single-gang or double-gang electrical boxes.
Order number **D8217**

D8218 Mounting Bracket
Made of brushed metal. Mounts vandal-resistant proximity readers to electrical boxes that are single-gang, double-gang, or 4 in. (10.1 cm) square. Includes four tamper-resistant screws with a special tool.
Order number **D8218**