

201235 Auto Door Controller



CAUTION The 201235 ADC uses static sensitive electronic parts and is not user-serviceable. Use proper ESD precautions when handling, wiring, or servicing the unit to avoid damaging internal circuitry. Damage caused by the lack of proper ESD precautions will void warranty.

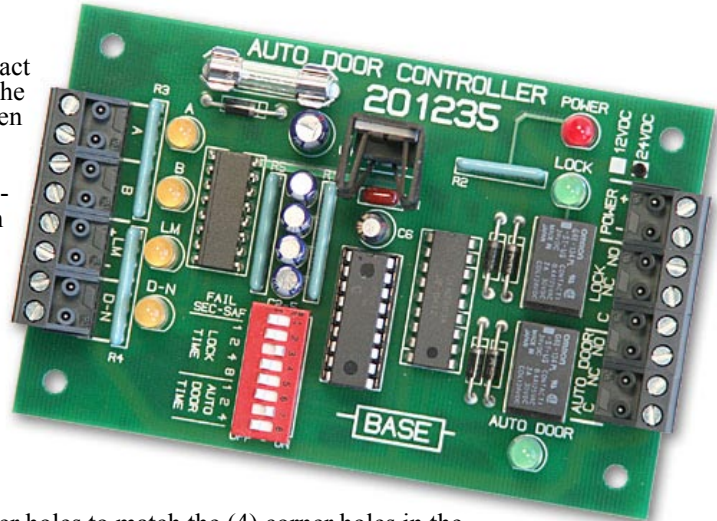
DESCRIPTION

The 201235 Auto Door Controller is a printed circuit board module that controls the operation of a motorized automatic door when used with an electric security lock. Pushbuttons or Card Readers on the inside and/or outside of the door will signal an 'open request' to the module. The module will then provide timed outputs for unlocking and opening the door in the proper sequencing to help prevent damage to the door lock and motor mechanisms.

The 201235 can monitor an external day-night contact (D-N). The module will unlock the door whenever the D-N is closed regardless of the condition of the 'open requests'.

The unit can be used with either Fail-Safe or Fail-Secure locks. Lock type and Timer settings are dipswitch selectable.

The unit contains status LEDs for monitoring the 12 or 24 vdc input power and all input and output functions. The power input is fused and protected for reverse polarity. Opto-isolated circuit inputs provide additional protection of the processing electronics from static discharge. Outputs are relay form-C contacts rated at 2 Amps. The module size is 2.75 x 4.25 inches.



INSTALLATION

Choose a location and drill (4) 0.187" (3/16") diameter holes to match the (4) corner holes in the printed circuit board. Push the nylon standoffs supplied into each hole and snap the module into place over the standoffs.

WIRING

Wiring is terminated at the two depluggable terminal strips as shown in Figure 1.0. Two inputs are provided for wiring entry request devices. These inputs operate differently during Night or Day operation. When in Night mode (D-N contact open), devices wired to input A only will unlock the door and signal the auto door to operate. In this mode, devices wired to input B will have no effect. When in Day mode (D-N contact closed), the door will already be unlocked, and devices wired to input A and/or B will only signal the auto door to operate.

Wire entry request devices to be active during Night mode to Input A. Wire entry request devices to be inactive during night mode (like an outside pushbutton or MW detector) to input B.

When using an access control system, wire the access controllers' lock output contact to Input A and set for 1 second duration. Wire the 201235 Lock output to a Lock Control System (ie: the input of a BASE LV-Series Power Distribution Module). In this way, a card reader or request-to-exit device will trigger input A during Night mode.

The LM input is for monitoring the electric lock operation. If the 201235 ADC does not know that the lock has unlocked (sensed at the LM terminals), then the Auto Door Output will not operate. This wiring should originate as close as possible to the electric lock downstream of all other lock control hardware.

Set dipswitch 1 for the type of electric lock being used, Fail-Safe or Fail-Secure. Both the LM input and Lock Output will reverse their operation when dipswitch 1 has changed from Fail-Safe to Fail-Secure or vice-versa.

Dipswitch 1	LM Input		Lock Output Relay	
	Off means door is;	On means door is;	Off when;	On when;
Fail-Secure	Locked	Unlocked	Locked	Unlocked
Fail-Safe	Unlocked	Locked	Unlocked	Locked

Connect the correct DC power to the power input terminals - 12 or 24 VDC. Incorrect wiring at the power or other input terminals may cause damage to input circuitry or a blown fuse. Verify all wiring prior to power up.

TIMER SETTINGS

LOCK TIME is the number of seconds that the Lock will be unlocked before the Auto Door Output is activated. Set this timer by selecting the desired additive dipswitches to the On position. Maximum setting is 1+2+4+8 = 15 sec.

AUTO DOOR TIME is the number of seconds that the Auto Door Output will be activated. (The Lock Output will also remain activated during the Auto Door output time period.) Set this timer by selecting the desired additive dipswitches to the On position. Maximum setting is 1+2+4 = 7 sec. (Maximum total unlock time = 15+7 = 22 sec.)

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OPERATION

When power is applied, the Red power lamp will light. The Yellow input LEDs will light whenever the associated input is 'On' (contact closed). The LM LED will light whenever power to the door lock is 'On'. The Green output LEDs will light whenever the associated output relay is energized.

DAY OPERATION - Whenever the D-N input contact is closed, the unit will run in Day mode. This will activate or de-activate the Lock output to unlock the door (depending on fail-safe or fail-secure setting). While in day mode, operation of an Entry Request Device on Input A or B will activate the Autodoor output for the Auto Door Time period. If the unlocked door is not being sensed at the LM terminals, then the Auto Door Output will not activate.

NIGHT OPERATION - Whenever the D-N input contact is open, the unit will run in Night mode. This will activate or de-activate the Lock output to lock the door (depending on fail-safe or fail-secure setting). While in night mode, operation of an Entry Request Device on Input A only will first unlock the door for the Lock Time period, and then activate the Autodoor output for the Auto Door Time period. At the end of both time periods, the door will re-lock. If the unlocked door is not being sensed at the LM terminals, then the Auto Door Output will not activate. In Night mode, devices connected to Input B will have no effect.

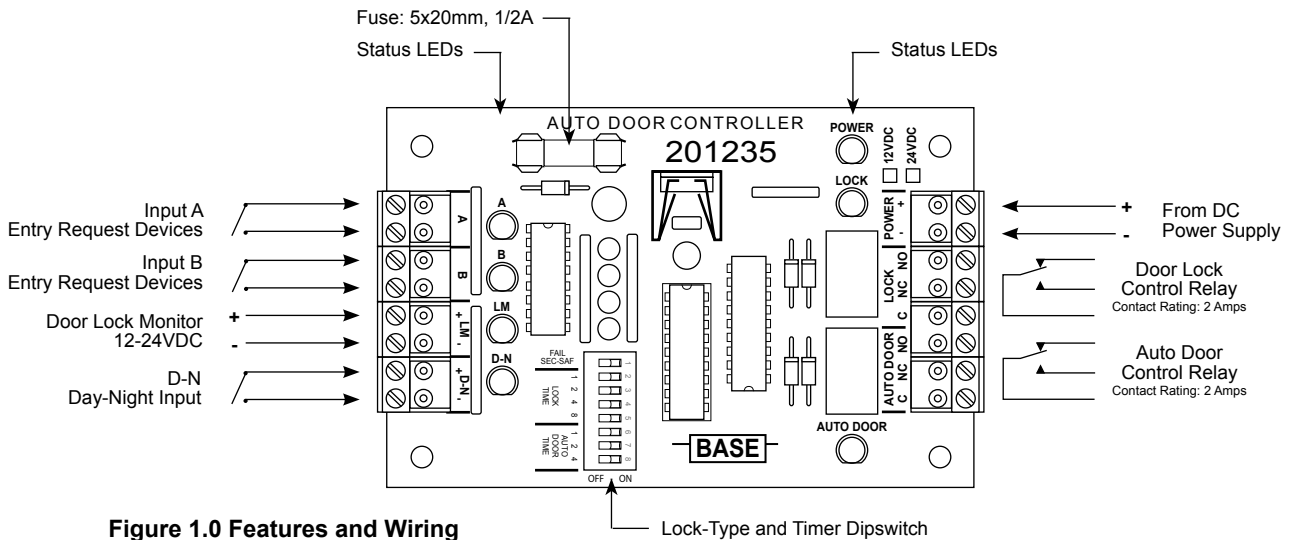


Figure 1.0 Features and Wiring

Specifications

- Operating Voltage: 12VDC or 24VDC, Fused at 0.5A
- Operating Current Draw: 150mA (0.150A) Maximum
- Output Relay Contact Rating: 2A Maximum
- Output Relays (2): Dry Contacts, Form C
- Indicators: 7 LED Status Lamps
- Controls: Lock-Type and Timer Setting Dip Switch - 8 position
- Indoor Temperature Range: -25° C. to +50° C.
- Size: 2.75 wide by 4.25 long (inches)

Limited Warranty

The 201235ADC is warranted by BASE Electronics against manufacturing defects in materials and workmanship for a period of 1 year from date of purchase. During this period, any warranty repair required will damage or failure caused by or attributable to Acts of God, abuse, misuse, improper or abnormal usage, faulty or improper installation or maintenance, neglect or accident. BASE Electronics is not responsible or liable for any special, consequential or indirect damages resulting from or in connection with the use or performance of this product as pertaining to economic loss, property loss, costs for removal or installation, or loss of revenues or profit. Except as provided herein, BASE Electronics makes no expressed or implied warranties. The duration of product performance for its intended purpose is limited to the duration set forth herein.

For Warranty or other repair, send the product postage prepaid to BASE Electronics and include Sender's name, company, address, phone and brief problem description. BASE Electronics will notify sender of any required repair costs not covered under this warranty prior to making such repairs.

This Warranty gives you specific legal rights. You may have other rights that vary from state to state.

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