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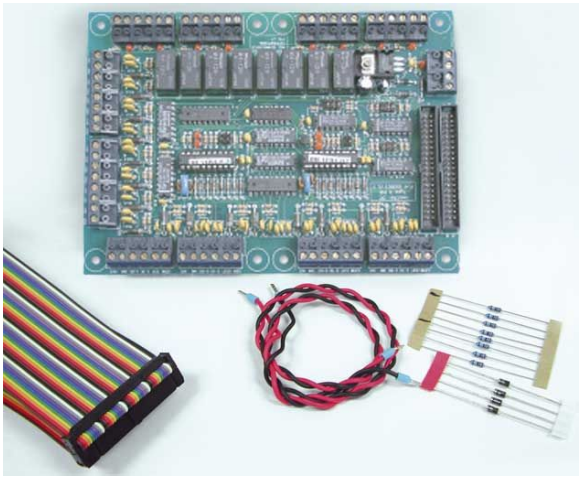
# Extension Board 4 Wiegand



- Supports 4 Wiegand compatible reader interfaces
- Supports 4 input points used for Door Contact sensors
- Supports 4 input points used for Request-to-Exit Devices
- Supports 8 form-C relay output points
- Up to a maximum of 4 AEC- 4W-EXT boards can be supported by one Access Easy Controller.
- IDE Connectors for data bus

The AEC-4W-EXT (4 Wiegand Interface Extension Board) is used in the AEC or AEC Extension. Each board can support four separate Wiegand compatible readers, 4 input points for door contact sensors, 4 input points for "Request-to-Exit" devices/switches, and 8 form-C relay output points to control devices like electric lock to open the door. (AMERICAS, APR, EMEA)

## Functions

### Configuration

Each AEC can support up to a maximum of four AEC-4W-EXT boards allowing a maximum configuration of 16 readers per AEC.
Every AEC comes with one AEC-4W-EXT board with options to add another one. Any additional extension board (AEC-4W-EXT board 3 and 4) would be housed in one or more extension enclosures and connected together via the AEC-SER-EXT boards.

### Connections

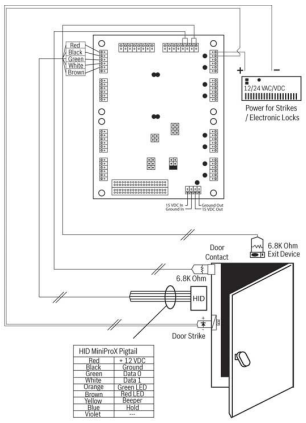
Each reader interface on the board can supply up to 12VDC at 150 mA to power the reader. The reader's LED is also normally controlled through the reader interface.

The optional door contact sensors and request-to-exit inputs for each reader controlled door are supervised with a 6.8 kOhm resistor, placed either in series or in parallel with the device (depending if the contact is normally open or normally closed). The 6.8 kOhm resistors are also supplied with every reader extension package.
The output on the reader extension board is a Form-C relay, dry contact, rated at 24VDC @ 1 Amp. Diodes should be installed across each door strike or magnetic lock. Diodes are also supplied in every reader extension package.
Two IDE data bus connectors are available. One of them is used to interface to the AEC - CPU board. The other is used to extend the data bus to the next AEC-4W-EXT board or AEC-8I8O-EXT board.

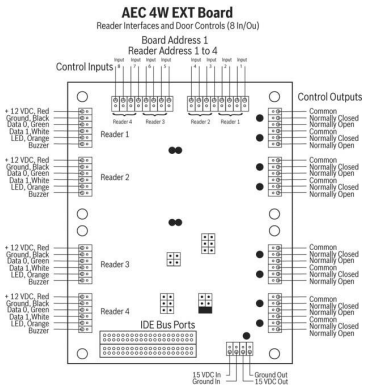
### Visual Indication

There are several LEDs on the AEC-4W-EXT board that can be used for diagnostic purposes. The LEDs indicate the presence of power, relay states and if the AEC-4W-EXT board is receiving information on the IDE data bus.

## Installation/Configuration Notes




**Typical HID MiniProx Reader Wiring Diagram**




## Parts Included

| Quant. | Component |
|---|---|
| 1 | Reader Expansion Board |
| 1 | IDE Interface Cable |
| 1 | Board mounting hardware accessories |
| 8 | 6.8 kOhm resistors |
| 8 | Blocking Diodes |
| 1 | Installation Guide |

## Technical Specifications

### Dimensions

| | |
|---|---|
| Enclosure (W xH ) | 127 x 177 mm<br>(5 x 6.97 inch) |

### Environmental

| | |
|---|---|
| Relative Humidity | 0% to 90% non-condensing |
| Temperature (Operating) | 0 °C to +50 °C<br>(32 °F to 120 °F) |
| Temperature (Storage) | 0 °C to +55 °C<br>(32 °F to 130 °F) |

### Inputs

| | |
|---|---|
| Card Readers | 4 Wiegand compatible Readers |
| Monitoring Points | 4 supervised (6.8 kOhm) Door Contact Sensors |
| Monitoring Points | 4 supervised (6.8 kOhm) Request-to-Exit devices |

### Outputs

| | |
|---|---|
| Control Points | 8 Form-C Relay Output rated at 24 V DC, 1 Amp |

### Ports

| | |
|---|---|
| Bus expansion port: | Two 40-pin IDE connectors |

### Power Requirements

| | |
|---|---|
| Power Supply | +15 V DC |
| Backup Battery<br>(Optional Backup Battery: Not included in standard package) | 12 V DC, 7 Ah rechargeable battery |

## Ordering Information

Extension Board 4 Wiegand — AEC-4W-EXT
Access Easy Extension - 4 Wiegand Interfaces and Door controls (8 IN/OUT), Fitting parts.

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