

**Part Number(s):** ELM 611-multiCLASS

**Output:** 26 Bit Wiegand or 37 Bit Wiegand Open Format

**Voltage(s):** 5 VDC, +/- 0.1V 20mA 12 VDC, +/- 3.0V 20mA

**Temperature:** -40<sup>0</sup> C to +70<sup>0</sup> C (-40<sup>0</sup> F to +160<sup>0</sup> F)

DATA 1 and DATA 0 signals are open collector outputs with 2.2K pull-ups to the internal +5V. The data is sent at 1 msec per bit with a pulse duration of 50 usec. An annunciator beeps with each card read. When the LED control input is pulled low, the GREEN LED will be on and the BLUE LED will be off. When the input goes high the BLUE LED is on and the GREEN LED is off. The LED that is illuminated will blink off with every card read the LED control input is pulled to the internal +5V with a 2.2K resistor.

The following WIEGAND output is sent each time a card is read:

PSSSSSSSSNNNNNNNNNNNNNNNNNNNNNP

BIT 1 2                      9 10                                      25 26

BIT 1 is an even parity for the following 12 bits. The sum of bits 1-13 is even.

BITS 2-9 are the SITE CODE, part of the card data.

BITS 10-25 This is the card number read.

Leading 0's are added as required. Bit 10 is most significant.

BIT 26 is an odd parity over the previous 12 bits. The sum of bits 14-26 is odd.

Example: Site Code of 004 and a card number of 123 read 1 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 1 1 1 1 0 1 1 1

**The following card formats are supported;**

iClass

iClass SE/SR

iClass Seos

Mifare Classic 1K/4K & SE

Mifare Mini

Mifare Ultra Light

Mifare Desfire

Felica

CEPAS

Plus a number of other formats, contact iDor Security Solutions for details

**For ELM 611-multiCLASS models, the following Prox technologies are supported;**

HID Prox

Indala Prox

EM4100

EM4102

EM4200

EM4305

EM4450

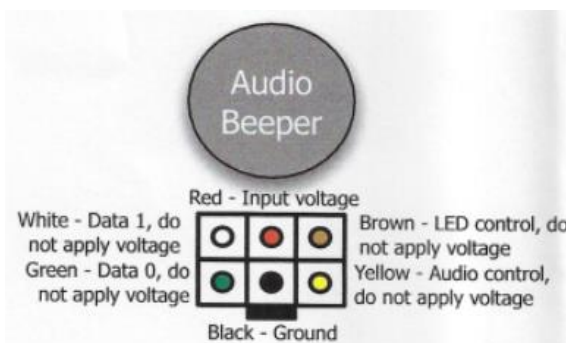
FDX-B

T5557

T5567

AWID Prox

**ELM 611-multiCLASS Wiring:**



- Red                      +5V or 12VDC
- Black                    DC Ground
- White                    Data 1
- Green                    Data 0
- Brown                    LED Control
- Yellow                    Audio Control