CYPRESS

CVT- 2240
Wiegand -> ASCII Converter

Converts encoded badge information from Wiegand readers to an ASCII string.

RS-232
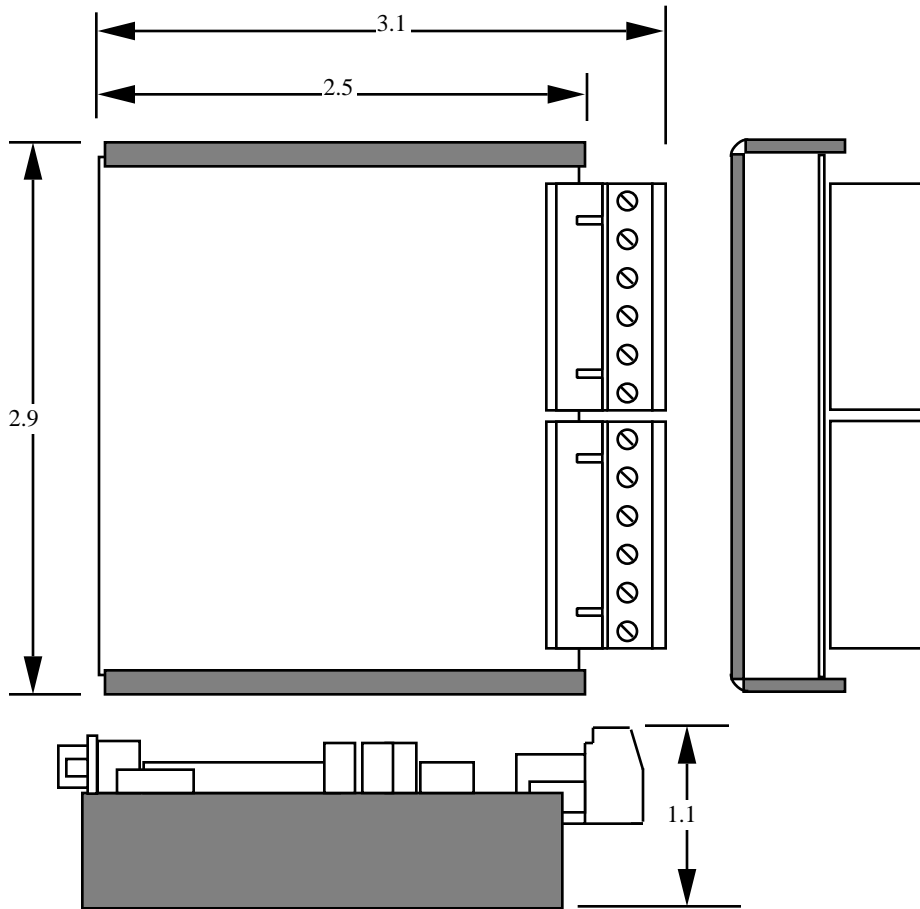
Any Wiegand output reader

CVT-2240
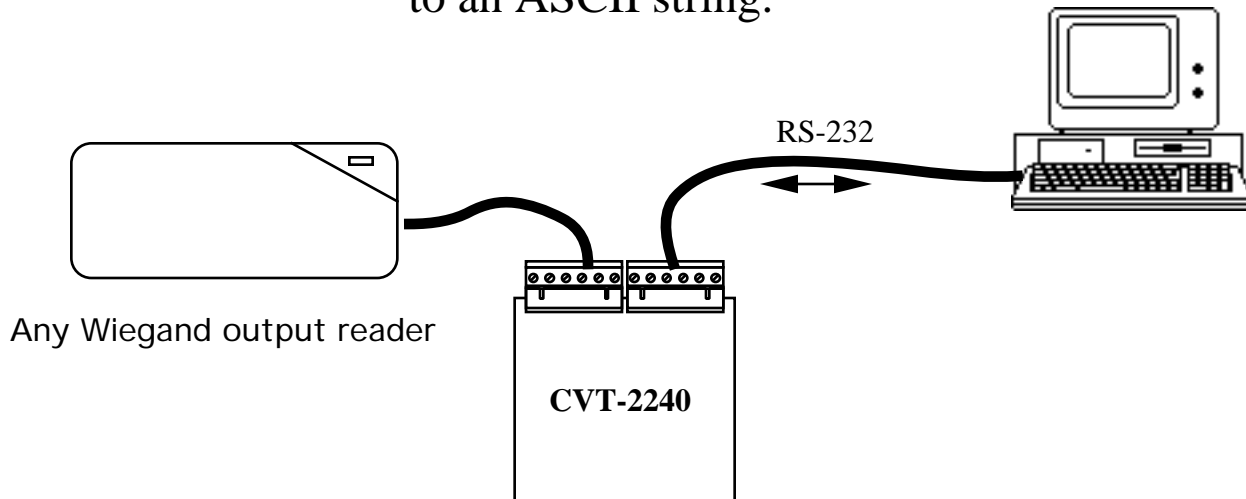
Features

• Encoded badge information is transmitted as an ASCII string.

• The Reader's LED is activated by receiving a command string.

• A command sequence also controls an on-board relay.

Description

When connected to any Wiegand output reader, the encoded badge information is output as a formatted ASCII string. The output of the CVT-2240 can then be captured by a communications program running on a PC or printed directly on a serial printer. In addition, commands can be sent to the CVT-2240 to control the reader's LED and activate an auxiliary relay located on the Converter's circuit board.

Applications

Verifying encoded badge information.
Creating a database of existing badges.
Entering badge information into a program.
Testing badge or reader integrity.
Remote Control of Door strikes, MagLocks, Turnstiles, and Gate arms.

3.1

2.5

2.9

1.1

side view

Wiegand to
ASCII
Converter
CVT-2240

+8 to +24 Vdc @ 150 ma
Ground
+5 Vdc @ 100 ma
Data 0
Data 1 — Open Collector or 5 Vdc Pulses
LED — Open Collector (30 Vdc Max)

Ground

Normally Open
Normally Closed   Door Strike Relay
Common   125 Vac @ 1 Amp

DB-9
Female
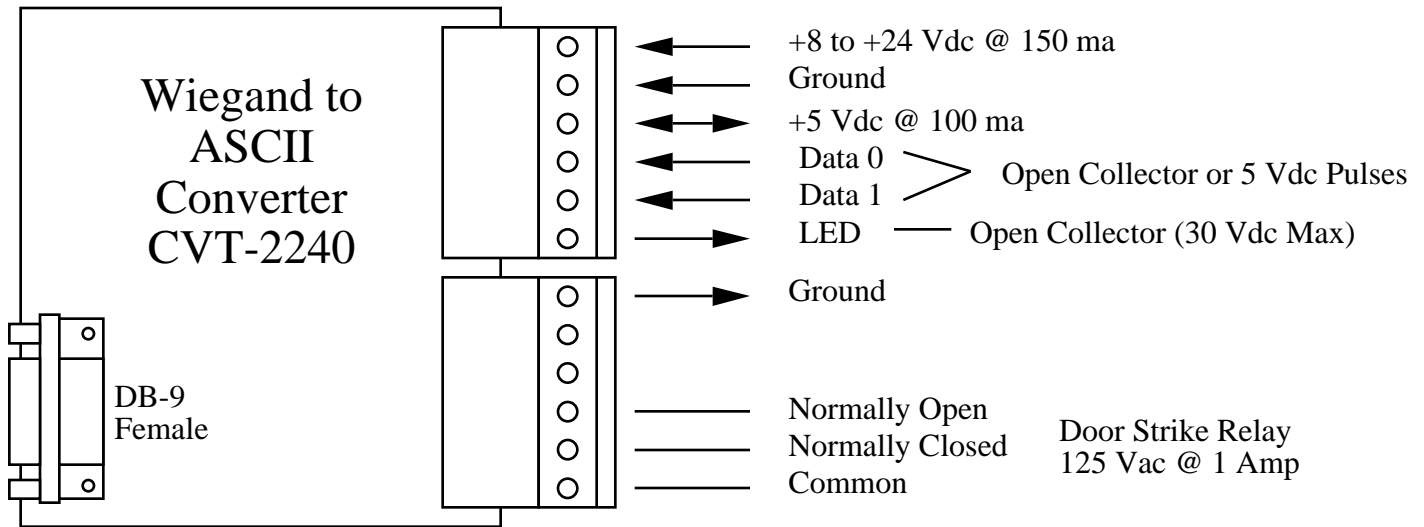
DB-9 Female
1...DCD unused
2...RX Data from Terminal/Printer
3...TX Data from CVT-2240
4...DTR unused
5...Ground
6...DSR unused
7...RTS
8...CTS
9...RI unused

5 4 3 2 1
9 8 7 6

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Cables

TX 3 —————— 3 RX
RX 2 —————— 2 TX
Gnd 5 —————— 7 Gnd

CVT-2240 · Computer
DB-9 · DB-25
Male · Female

TX 3 —————— 2 RX
RX 2 —————— 3 TX
Gnd 5 —————— 7 Gnd

CVT-2240 · Printer
DB-9 · DB-25
Male · Male

TX 3 —————— 2 RX
RX 2 —————— 3 TX
Gnd 5 —————— 5 Gnd

CVT-2240 · Computer
DB-9 · DB-9
Male · Female

Communications: 9600 BPS ASYNC, 8 bits, 1 Stop, No Parity

RX Data:

```
Turn LED on................. @ L 1
Turn LED off................ @ L 0
Toggle LED.................. @ L 2   (Bi-Color LED Turns Orange)
Turn Relay on............... @ R 1
Turn Relay off.............. @ R 0
Enable Format Processing.... @ P 1   (Outputs Badge Num,Site Code,Fixed Code  for recognized formats only)
Disable Format Processing.. @ P 0   (Outputs Decimal Representation of all card bits)
```

TX Data:

stx 16383 0 65535 etx nul nul

stx = $2
etx = $3
nul = $0

Badge Number
1..65535

Site Code
1..16383

Always 0

End of Text {$03}

Start of Text {$02}

The above output would result from the following input:

xxxxxxx1111111111111111111111111111111111111x

12345678901234567890123456789012345678901234
xxxxxxxSSSSSSSSSSSSSSSBBBBBBBBBBBBBBBBBxxxxxxx

Input Characteristics of CVT-2240

Data 1 — 50 μs (typ)

Data 0 — 1 ms (typ.)