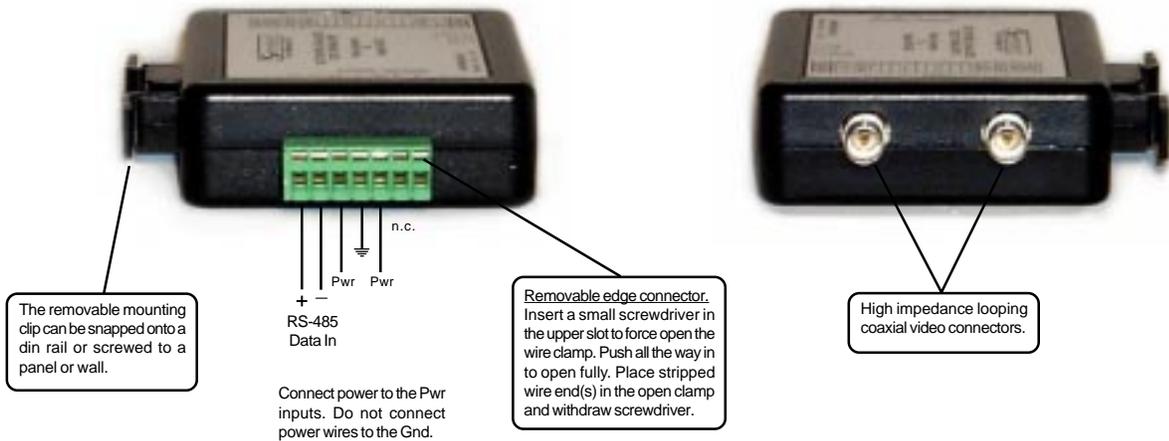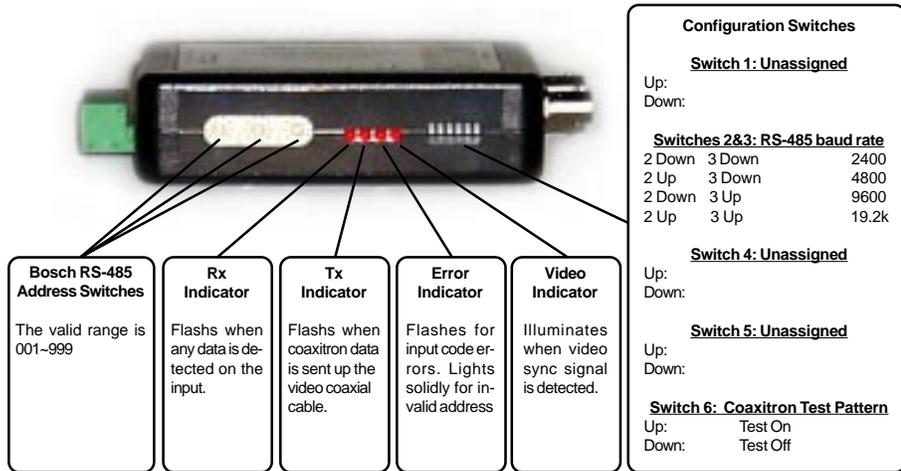# SCT-CTX-Bosch-485-Pelco
Bosch RS-485 to Pelco Coaxitron Code Translator

The Code Translator receives Bosch RS-485 camera control code and converts it into coaxitron control code for a single Pelco camera.

Configuration Switches

Switch 1: Unassigned
Up:
Down:

Switches 2&3: RS-485 baud rate

2 Down	3 Down	2400
2 Up	3 Down	4800
2 Down	3 Up	9600
2 Up	3 Up	19.2k

Switch 4: Unassigned
Up:
Down:

Switch 5: Unassigned
Up:
Down:

Switch 6: Coaxitron Test Pattern
Up: Test On
Down: Test Off

Bosch RS-485 Address Switches

The valid range is 001~999

Rx Indicator

Flashs when any data is detected on the input.

Tx Indicator

Flashs when coaxitron data is sent up the video coaxial cable.

Error Indicator

Flashes for input code errors. Lights solidly for invalid address

Video Indicator

Illuminates when video sync signal is detected.

The removable mounting clip can be snapped onto a din rail or screwed to a panel or wall.

+ −
RS-485 Data In

Pwr Pwr
n.c.

Connect power to the Pwr inputs. Do not connect power wires to the Gnd.

Removable edge connector. Insert a small screwdriver in the upper slot to force open the wire clamp. Push all the way in to open fully. Place stripped wire end(s) in the open clamp and withdraw screwdriver.

High impedance looping coaxial video connectors.

SPECIFICATIONS

Size: 4.5" x 3.5" x 1.25"
Weight: 0.5 lb
Power: 9Volt to 15Volt AC or DC at 75ma
Environmental: Indoor use only

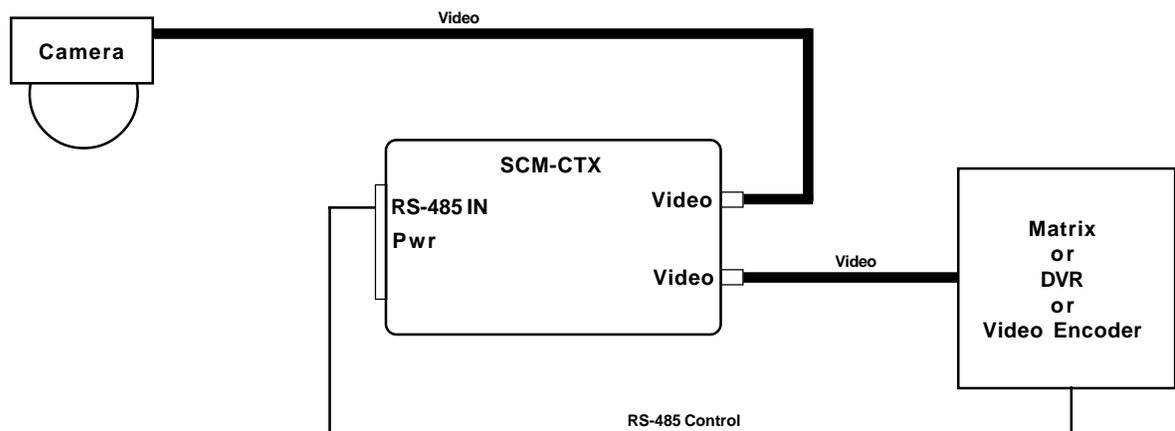**Sennetech, Inc. 6455 W. Bath Rd. Perry, MI 48872   U.S.A.   Ph (517) 675 1150   Fax (517) 675 1151**

www.sennetech.net

INSTALLATION

Insert the code translator in the video coaxial cable between the camera and the matrix. The video inputs are a high impedance loop so either can be in or out.

Connect the RS-485 control wires to the code translator's RS-485 in connectors. The baud rate and parity must be set to match the controller's settings. The switches can be changed with power applied and the changes take effect immediately.

Set address selector switches to the same number the controller is sending for this camera.

```
                                        Video
  ┌──────────┐ ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━┓
  │  Camera  │                               ┃
  └──────────┘            ┌──────────────────┃──┐        ┌──────────────────┐
       ◠              ┌───────────────────┐  ┃           │                  │
                      │     SCM-CTX        │  ┃           │                  │
                      │              Video ┃━━┛           │     Matrix       │
                  ┌───│ RS-485 IN           │             │      o r         │
                  │   │ Pwr          Video ┃━━━━ Video ━━━│      DVR         │
                  │   │                     │             │      o r         │
                  │   └───────────────────┘             │  Video Encoder   │
                  │                                        │                  │
                  └──────────── RS-485 Control ────────────┘                  │
                                                          └──────────────────┘
```

NORMAL OPERATION

The video indicator will light when there is video present from the camera on the coaxial cable.

The Rx indicator will light when there is any data on the RS-485 input. If it is recognized as valid data and the received address matches the switch settings, coaxitron data will be sent up the video cable to the camera and the Tx indicator will light.

TROUBLESHOOTING

No Video indicator: proper termination of the video cable is important for reliable coaxitron operation. The cable should be terminated with a single 75W resistor.

Only Rx indicator flashes when data is sent, no Error or Tx indicator: wrong address.

Both Rx and Error indicators flash, possible causes:
      Controller sending other than Bosch camera control data.
      Controller sending Bosch data but the baud rate settings do not match.
      Incorrect wiring. Connect controller's Tx+ and Tx- to RS-485 input + and - respectively.

Error indicator on solidly
      Invalid address setting - valid range is 001~999.
      Input data wires reversed