

CA250 – 2 Reader Access Control Board

For complete instructions, refer to the Technical Guide.

Ensure lock hardware complies with local building codes and fire regulations. Do not store this document inside the ACU enclosure unless the document is wholly contained within a fire-retardant envelop or tube.

NEW – The control board may require setting S2 DIP switches. Refer to the Specifications / Settings sheet.

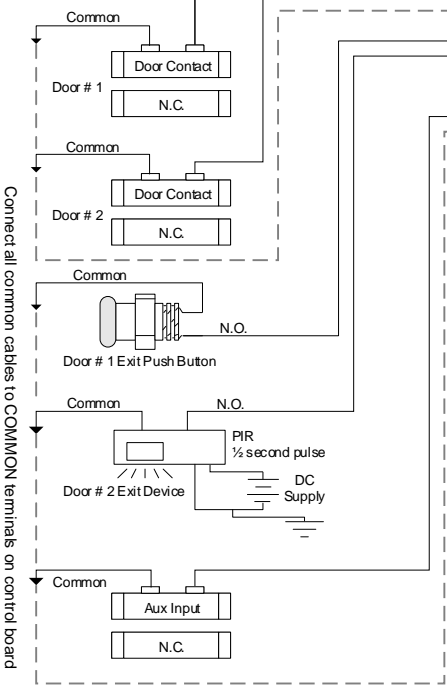
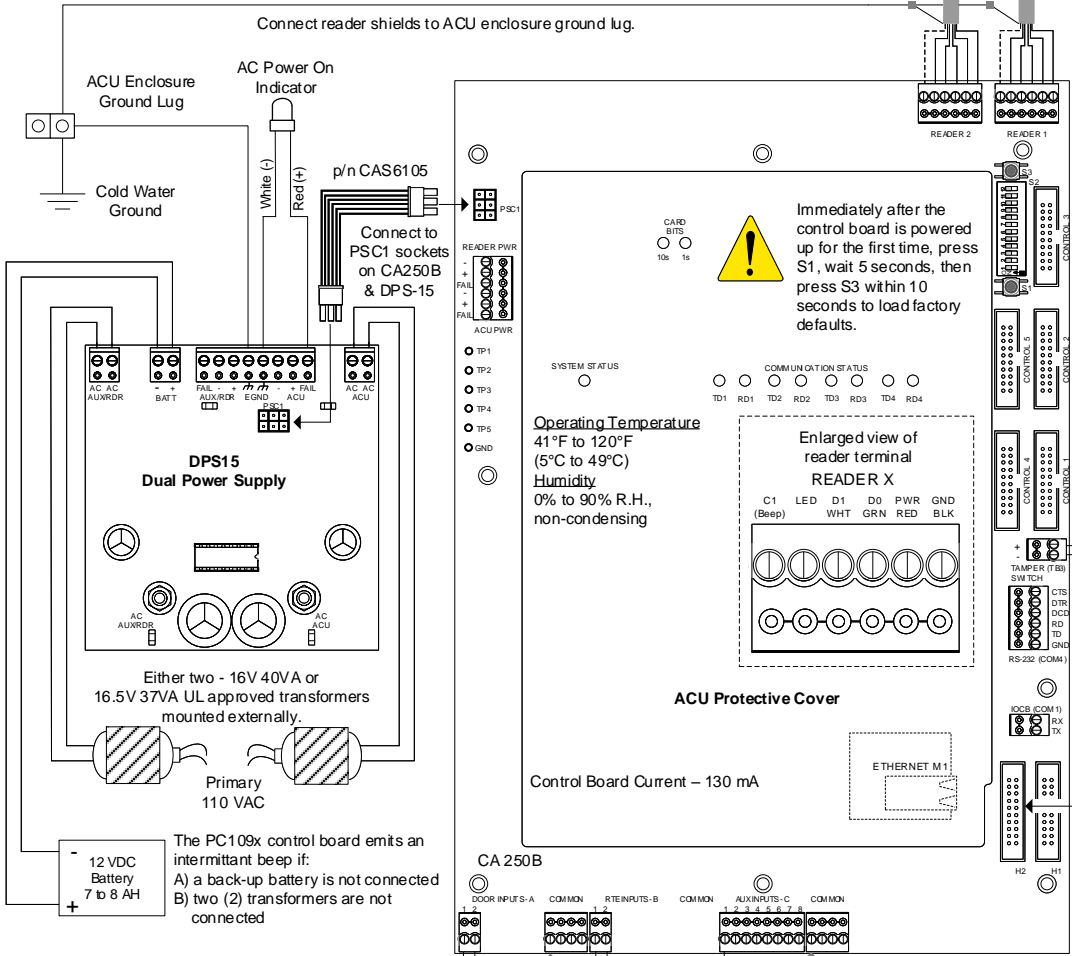
DPS-15 Power Supply

Dual linear DC outputs:

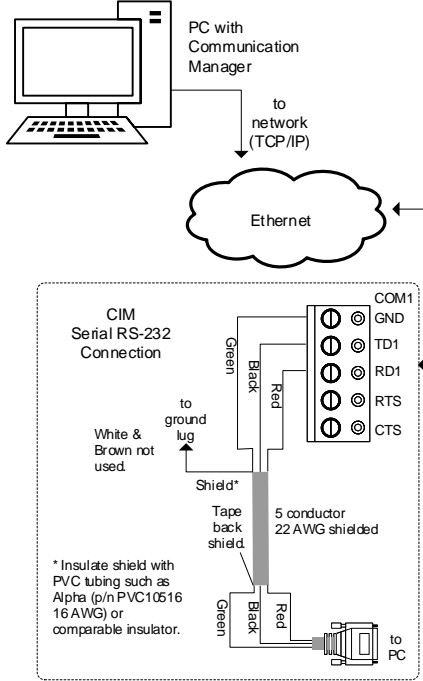
- ACU output 12 VDC @ 1.2 Amperes

- AUX/RDR output 12 VDC @ 1.2 Amperes

The total current draw on each output should not exceed 1 Amp with 200 mA in reserve for accommodating peak current operating demands.



Door contacts, exit devices, or PIRs - 22 AWG cable
N.C. = Normally Closed
N.O. = Normally Open



Bit Rate / Distance		
Bit	CAN Bus	RS-232
9600	3280' (999.7 m)	49.2' (14.9 m)
19200*	3280' (999.7 m)	49.2' (14.9 m)
57600	984' (299.9 m)	26.2' (7.9 m)
115200*	262' (80 m)	9.84' (3 m)

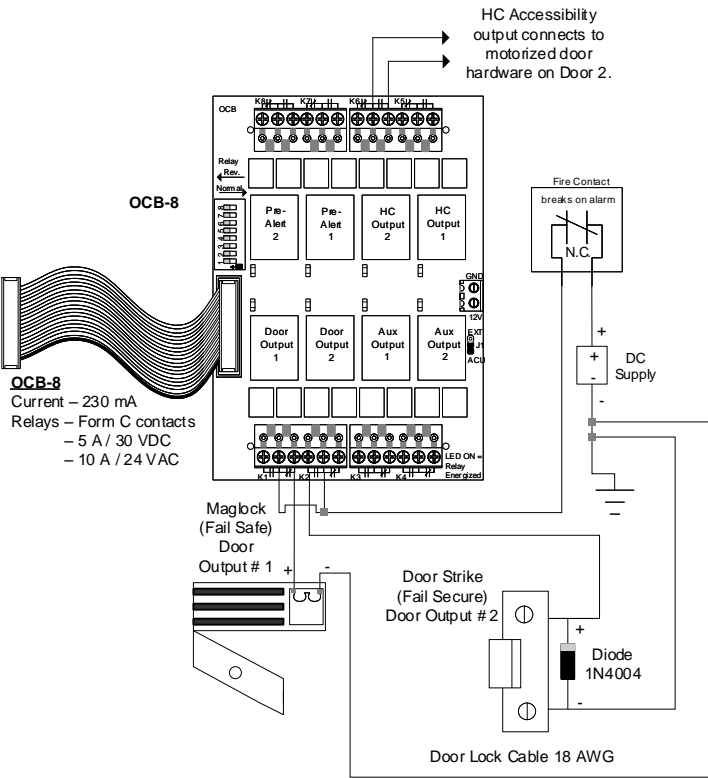
* not applicable for reverse network communication

OCB-8 Relays

Aux Outputs - connect to 3rd party devices such as alarm panel, CCTV or door locks without readers.

HC Accessibility Outputs - connect to electro-mechanical door operators; credential records with Extended Entry enabled (Aurora) or Accessibility Feature On (System VII and Vantage) trip the HC accessibility output. Refer to the Technical Guide for more information.

Pre-alert Outputs - connect to external sound alert device / wams when the door is held open beyond the half interval of the combined Door Relay Unlock Time and the Door Held Open Time. Pre-alert relay is also activated on an "alarm tripped".



Run Mode
Connect ribbon cable from HDR1 terminal on CIM to H2 terminal on control board.

CIM with Network or Serial Connection (CIM 0)
Jumper ON J4

Program Mode
To program NETCOM2P/6P when plugged into CIM, place a jumper ON J12. After programming, remove jumper from J12 to reset CIM board for Run mode.

CIM to CIM
- CAT 5
- 2 twisted pairs
- maximum cable distance first CIM to last CIM -3280 ft (1000 m)
@9600 baud

CIM with network or serial connection = CIM 0 - jumper ON J4

See over for more on CIM to CIM CAN Bus connections and jumper settings.

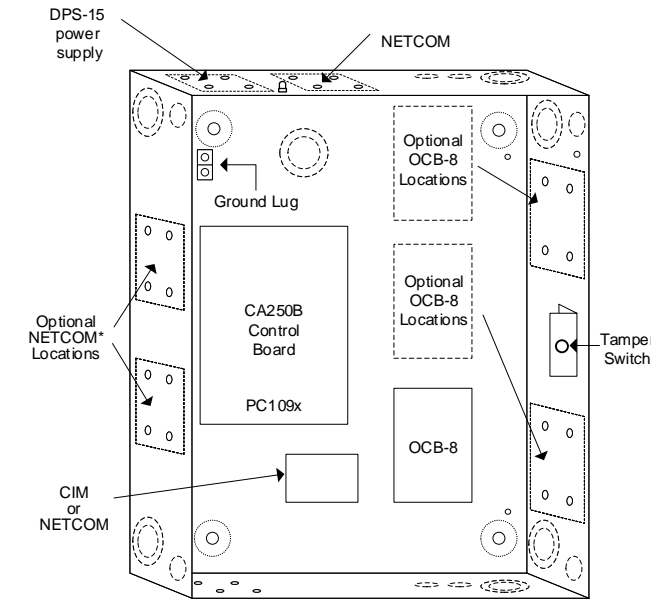
Also refer to the CIM - Setup Guide.

CA250 Control Board – Serial # _____ (Communication address) / NETCOM Device – IP Address _____ Subnet Mask _____

Name _____
Door # 1 _____ Reader # / Direction _____
Door # 2 _____ Reader # / Direction _____

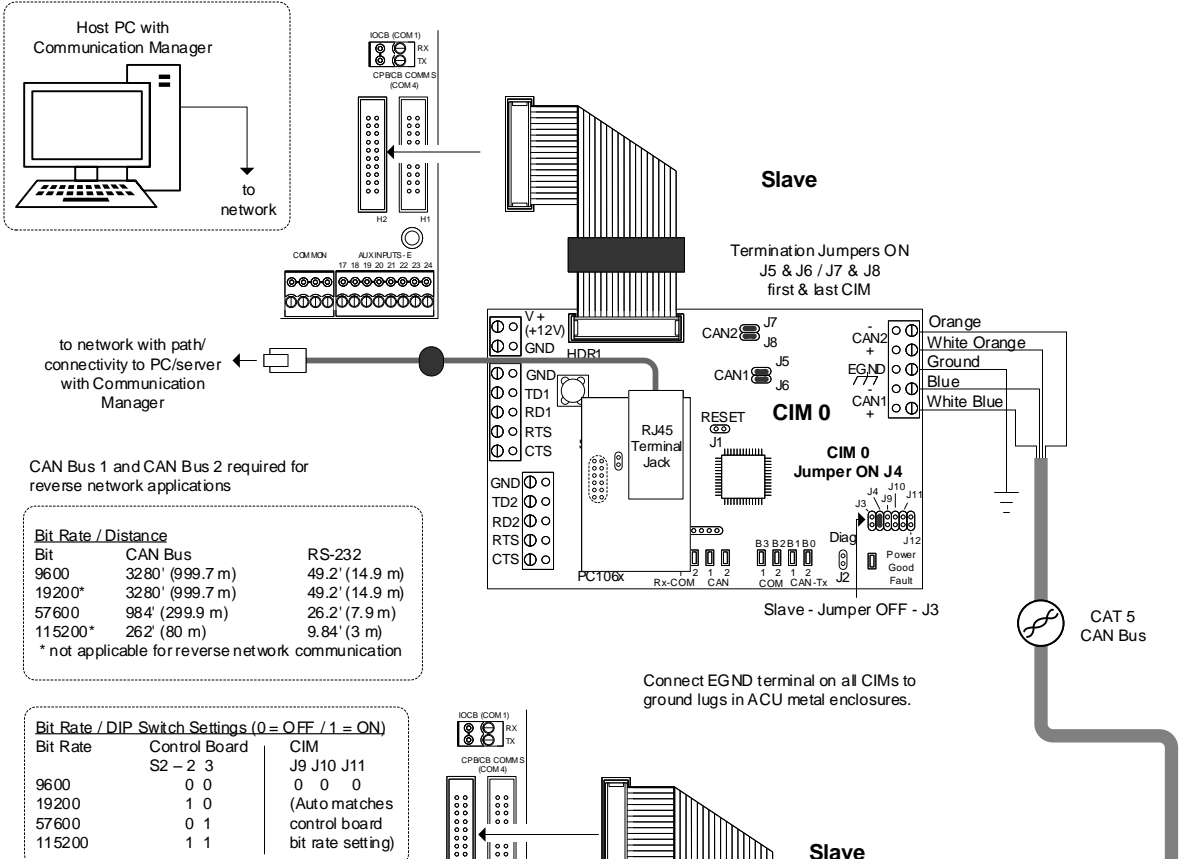
Name _____
AI/SI # 1 _____ AI/SI # 5 _____
AI/SI # 2 _____ AI/SI # 6 _____
AI/SI # 3 _____ AI/SI # 7 _____
AI/SI # 4 _____ AI/SI # 8 _____

Circuit Board Mounting Locations

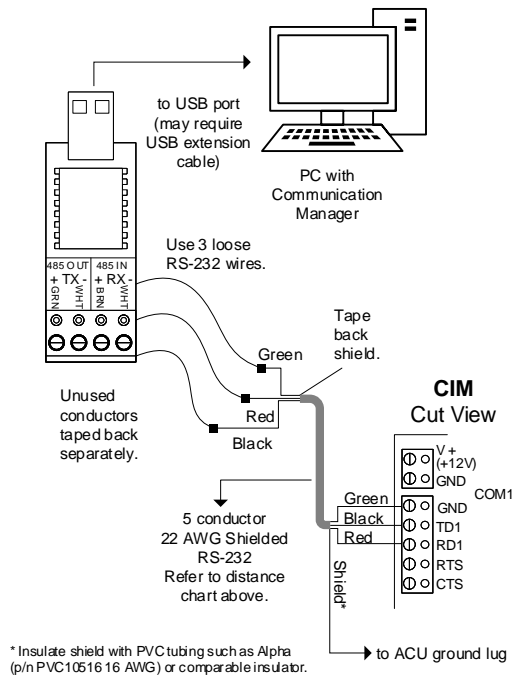


* NETCOM - for side mount, use terminal block only, not 9-pin male connector. NETCOM refers to NETCOM2 or NETCOM6.

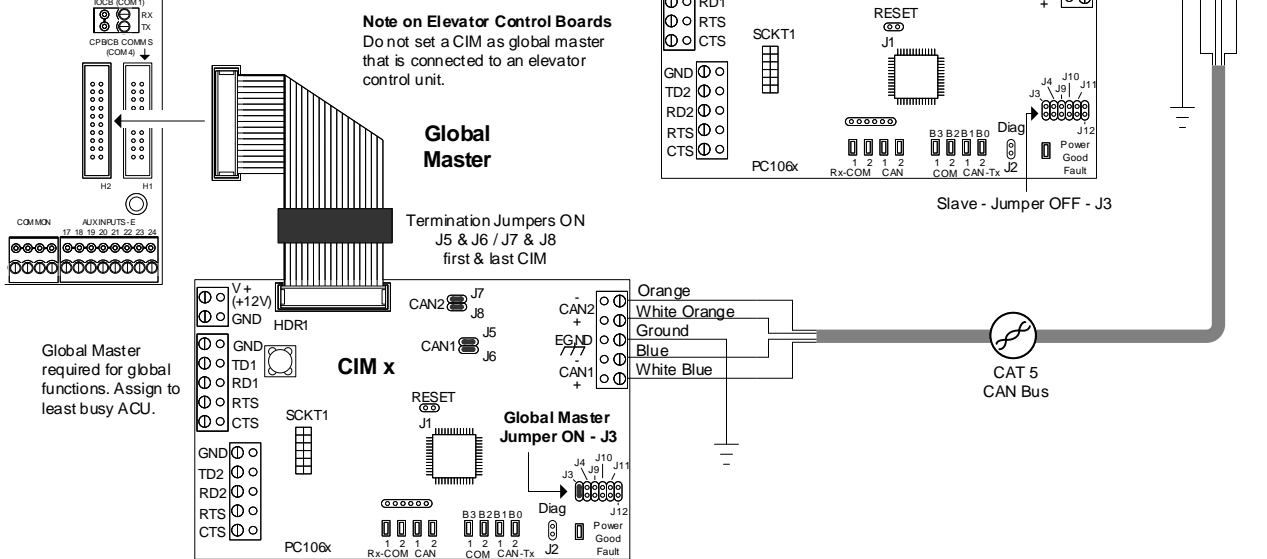
Communication – Network (TCP/IP)



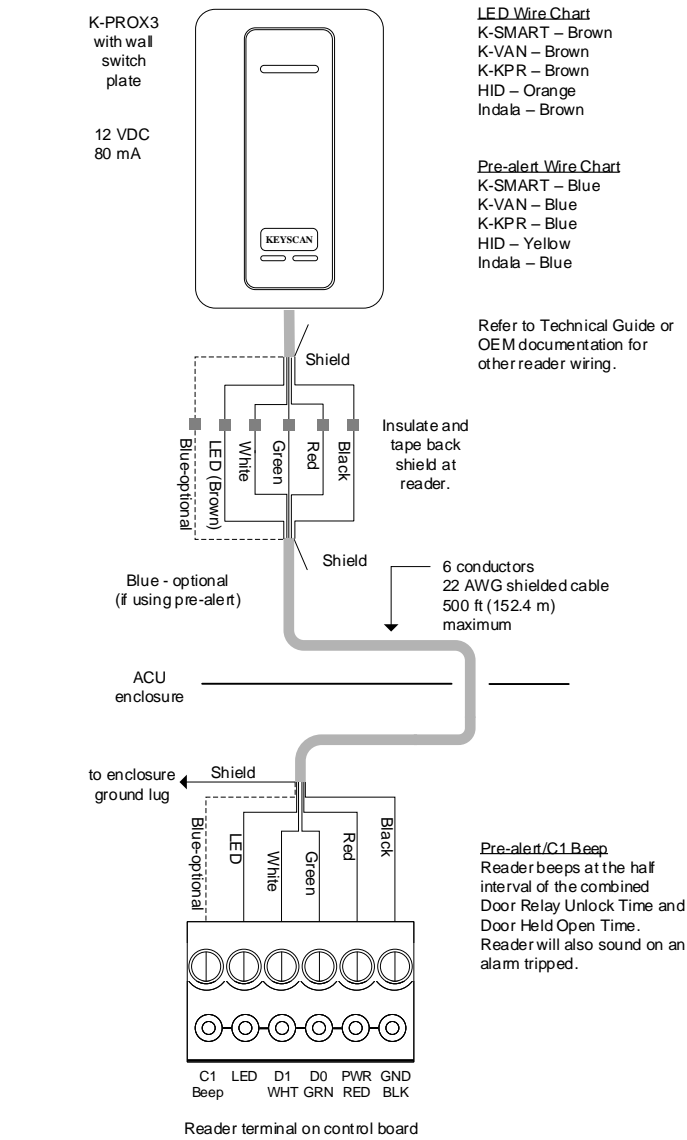
USB-SER Adaptor - RS-232 Connection



* Insulate shield with PVC tubing such as Alpha (p/n PVC10516 16 AWG) or comparable insulator.



Reader Termination



Terminate Lock Wiring at OCB-8

