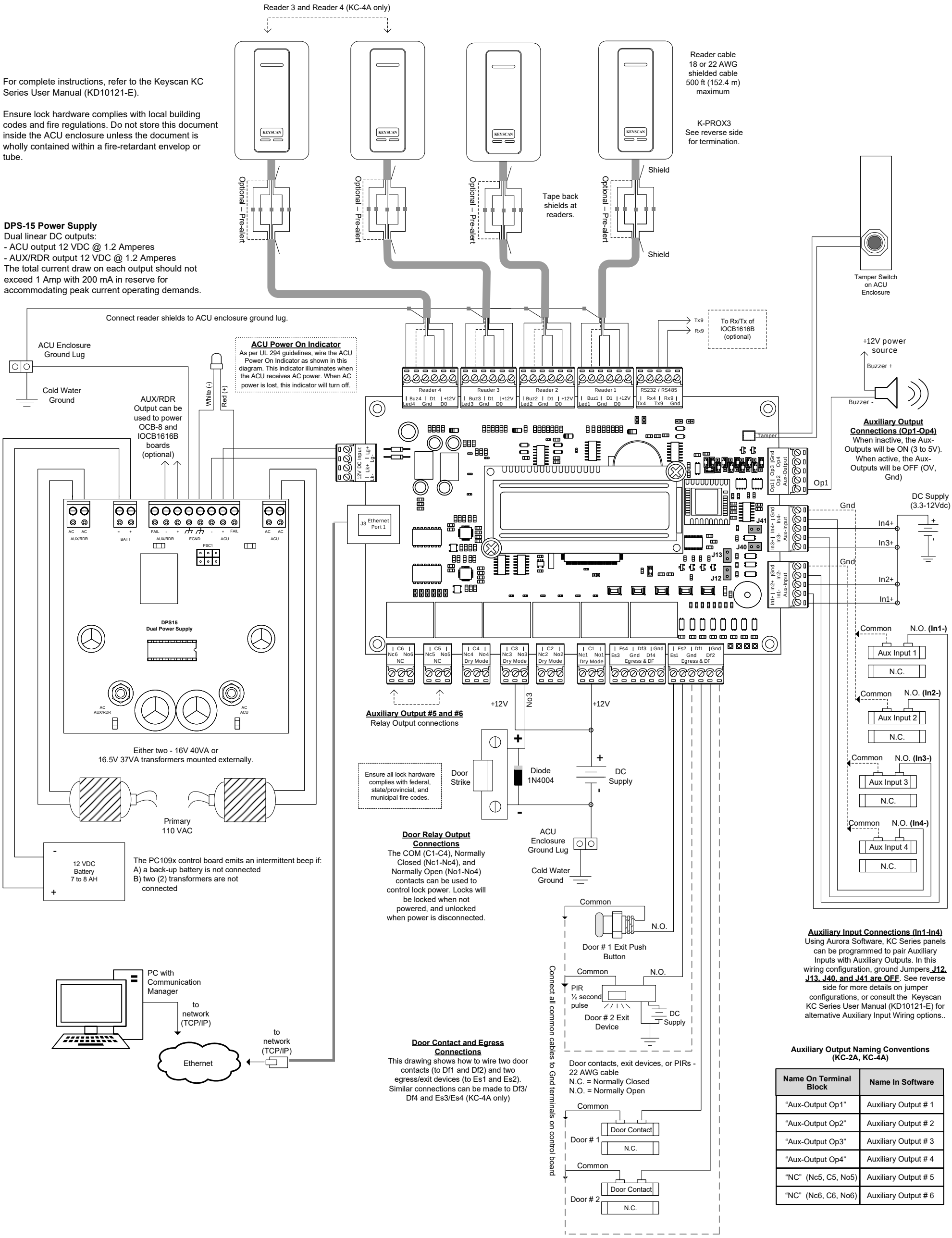
Keyscan KC Series 2 and 4 Reader Access Control Panels (KC-2A, KC-4A)

For complete instructions, refer to the Keyscan KC Series User Manual (KD10121-E).

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.

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.



Auxiliary Input Connections (In1-In4)
Using Aurora Software, KC Series panels can be programmed to pair Auxiliary Inputs with Auxiliary Outputs. In this wiring configuration, ground Jumpers **J12, J13, J40, and J41 are OFF**. See reverse side for more details on jumper configurations, or consult the Keyscan KC Series User Manual (KD10121-E) for alternative Auxiliary Input Wiring options..

Auxiliary Output Naming Conventions (KC-2A, KC-4A)

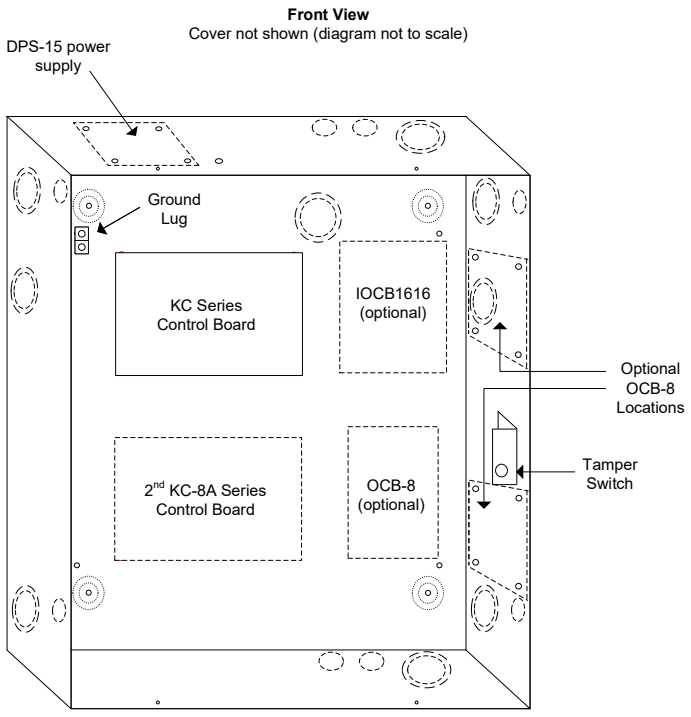
Name On Terminal Block	Name In Software
"Aux-Output Op1"	Auxiliary Output # 1
"Aux-Output Op2"	Auxiliary Output # 2
"Aux-Output Op3"	Auxiliary Output # 3
"Aux-Output Op4"	Auxiliary Output # 4
"NC" (Nc5, C5, No5)	Auxiliary Output # 5
"NC" (Nc6, C6, No6)	Auxiliary Output # 6

KC Series Control Board – Serial # _____ (Communication address) IP Address _____ Subnet Mask _____

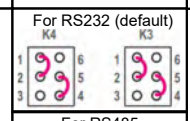
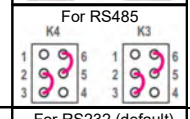
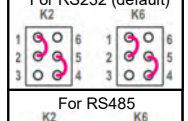
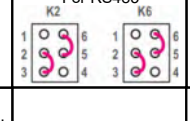
Name
Door # 1 _____ Reader # / Direction _____
Door # 2 _____ Reader # / Direction _____
Door # 3 _____ Reader # / Direction _____
Door # 4 _____ Reader # / Direction _____

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

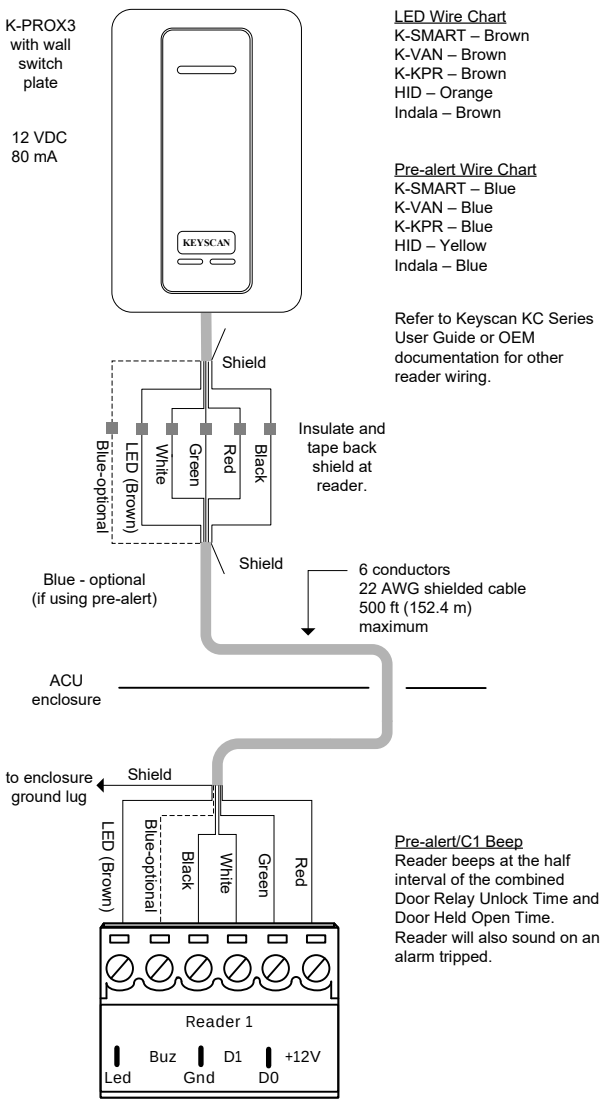
Circuit Board Mounting Locations



KC Series Access Control Panel - Jumpers (KC-2A, KC-4A)

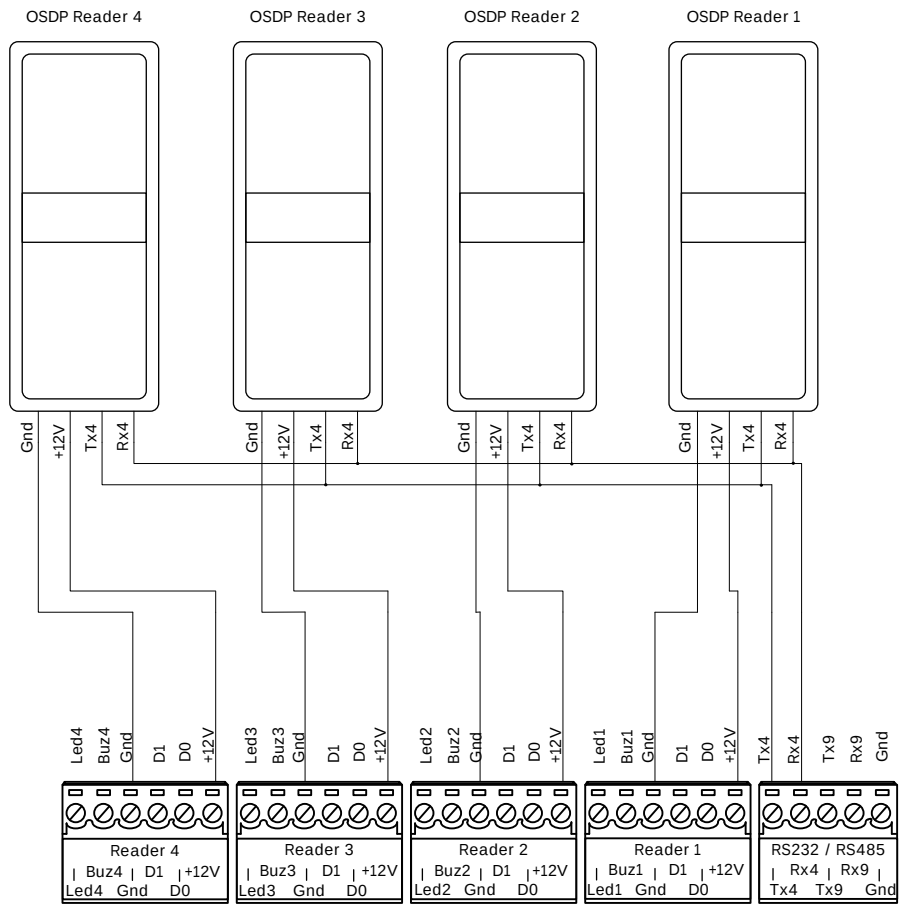
Jumper #	Jumper Setting	Function	Notes
JP2	ON (default)	Watchdog Jumper	Leave jumper ON
J21	OFF (default)	Programming Jumper	N/A
K4, K3	For RS232 (default)  For RS485 	Serial Communication Jumpers for **Tx9 / Rx9**	Set to RS485 mode for IOCB1616B connections
K2, K6	For RS232 (default)  For RS485 	Serial Communication Jumpers for **Tx4 / Rx4**	Set to RS485 mode for OSDP reader connections
J12, J13, J40, J41	ON	AUX-IN Ground Jumpers J12 for Aux In1 J13 for Aux In2 J40 for Aux In3 J41 for Aux In4	With jumper **ON**, apply 3.3-12Vdc to In+ to activate Aux-input
	OFF		With jumper **OFF**, apply 12Vdc to In+ terminal. Aux inputs can be activated by grounding In- (see wiring example on front of document)

Reader Termination



Reader terminal on control board

OSDP Reader Termination



Reader terminals on control board

Card Number Formats

The supported card number formats fall under the following two types:

- Standard Card Number – 3-digit facility code* / 5-digit card number
  - Facility code range: 1 – 255
  - Card number range: 1 – 65535
- Extended Card Number – hexadecimal 0–9, A–F or decimal 0–9
  - Hexadecimal range: 1 – FFFFFFFFFFF
  - Decimal range: 1 – 281474976710655

*The facility code may also be referred to as the site code or batch code.

dormakaba Canada Inc. assumes no responsibility for liability for any card format.

Reader Format	Security Level	Card Number Format	Notes
Standard 26-bit only	Low	Standard	
HID H10304	Medium	Extended	
HID H10302	Medium	Extended	
Keyscan 36-bit only	High	Standard	
MIFARE – CSN 32-bit output	Low	Extended	Only reads the Card Serial Number sector.
MIFARE – Reverse CSN 32-bit output	Low	Extended	Only reads the Card Serial Number sector.
MIFARE 40-bit CSN (32-bit CSN, 8-bit Checksum)	Low	Extended	Only reads the Card Serial Number sector.
MIFARE Reverse 40-bit (32-bits reverse CSN + 8-bits Checksum)	Low	Extended	Only reads the Card Serial Number sector.
Corporate 1000 – 35	Medium	Extended	
Corporate 1000 – 40	Medium	Extended	
University 1000 – 56-bit	Medium	Extended	Custom Order Only
26 to 48 Pass-through Large Card Format	Medium -Low	Extended	
26 to 48 Pass-through Large Card Format (with first and last parity bits dropped)	Medium -Low	Extended	
KABA Integrated Credential (17 byte)	High	Extended	Future Support

Circuit Board Current Ratings

The following table outlines Keyscan circuit board current ratings. Do not exceed the operating maximum of the power supply

Circuit Board Type	Model	Current Rating
KC Series Access Control Unit	KC-2A, KC-4A	250 mA
Output Relay Boards	OCB-8	230 mA
Auxiliary I/O Control Board	IOCB1616B	100 mA (no outputs connected) 400 mA (with inputs and outputs connected)