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Corridor Lights, Domeless Controllers, & Accessories

In this chapter you'll find installation tear sheets for the following Corridor Lights, Domeless Controllers, & Accessories:

- ✓ DCV100 Six Station Visual Domeless Controller
- ✓ R4KOUT4R Visual Output Controller
- ✓ DCV116 Sixteen Station Visual Domeless Controller
- ✓ CLV122 Two Bulb Visual Corridor Light
- ✓ CLV144 Four Bulb Visual Corridor Light
- ✓ DCA200 Six Station Audio Domeless Controller
- ✓ R4KOUT4S Audio Output Controller
- ✓ DCA216 Sixteen Station Audio Domeless Controller
- ✓ CLA222 Two Bulb Audio Corridor Light
- ✓ CLA244 Four Bulb Audio Corridor Light
- ✓ DCA214D Duty Domeless Controller
- ✓ CLA214D Duty Corridor Light
- ✓ R4KCAL Call Assurance Light
- ✓ CLAR4 Audio Corridor Light Add-On

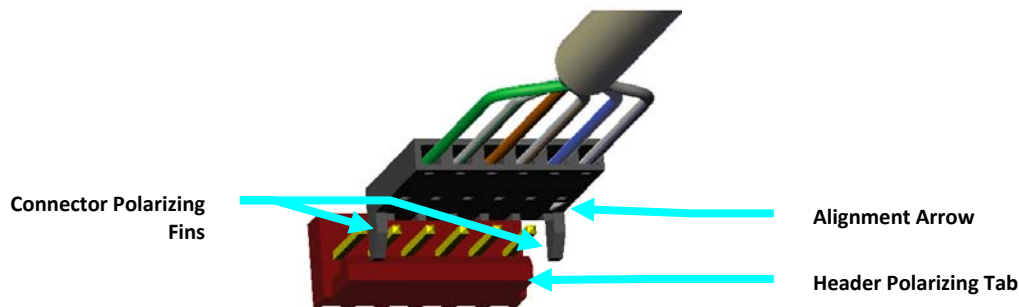


Figure 92: Station/Corridor Light connector mating direction

DCV100, Six Station Visual Domeless Controller CLV122 Two Bulb Visual Corridor Light CLV144 Four Bulb Visual Corridor Light (Visual Only Network Compatible)

The DCV100, Six Station Visual Domeless Controller; CLV122, Two Bulb Visual Corridor Light; and CLV144, Four Bulb Visual Corridor Light make identical connections.

Making Connections

The DCV100, Six Station Visual Domeless Controller; CLV122, Two Bulb Visual Corridor Light; and CLV144, Four Bulb Visual Corridor Light each make two types of connections: 1) to the K-Bus and 2) to room stations.

K-Bus Connect

Before you install any Corridor Light/Domeless Controllers, you'll need to configure your system, print out a K-Bus Location Worksheet, and complete the Power Calculation Spreadsheet. (See Appendix C, Power Requirements, for instructions on the use of the Power Calculation Spreadsheet.) Connect the Controller/Corridor Lights to the K-Bus via one of the available K-Bus headers. Use the other available K-Bus header if you wish to extend the K-Bus run.

Station Connect

Connect any Visual Bed (R4K11V, R4K21V), Pushbutton (R4KCB12, R4KCB10, R4KPB11, R4KPB22, R4KPB44, R4KRA1, R4KSR1, R4KESR), Pullcord (R4KPC10), or Cancel station (R4KCNCL) to the appropriate six (6-pin) Station Connect headers as illustrated:

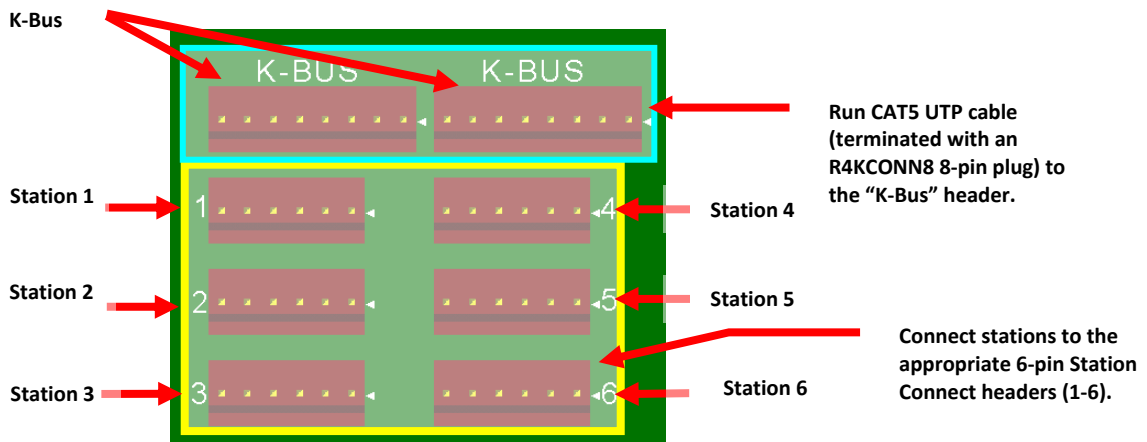


Figure 93: Visual Domeless Controller/Corridor Light Headers

Getting it Ready

Once you've made the appropriate connections, prepare the unit as follows:

Set K-Bus Address

Before you mount the component, you'll need to set the K-Bus Address. You should always work from a K-Bus worksheet, which helps you to keep track of component address assignments. You can find a blank worksheet in Appendix D.

To Set the Address

- 1 Find the address on the K-Bus Address Worksheet.
- 2 Set the Dipswitch to the correct address (this is a binary number):



Figure 94: K-Bus Address Dipswitch (address 1 shown)

Confirming it Works

All Domeless Controllers and Corridor Lights are equipped with a “heartbeat” LED, which confirms proper operation:

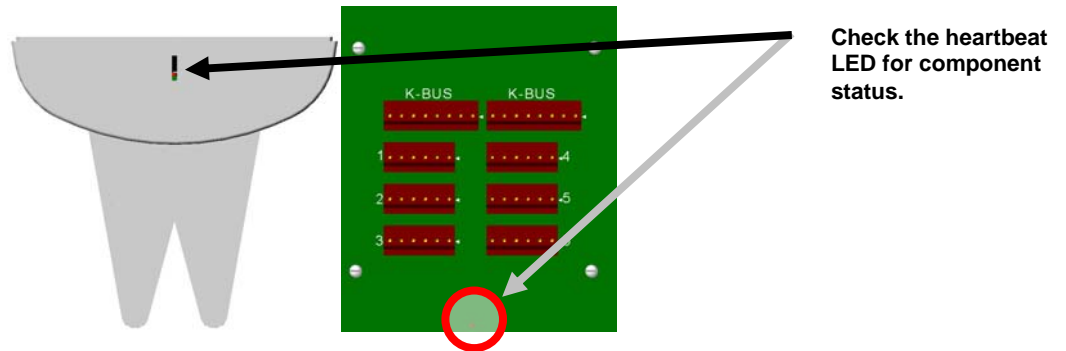


Figure 95: Domeless Controller/Corridor Light Heartbeat LED (bottom view of corridor light)

LED Heartbeat Rate	What it Means*	Take this Action
Continuous Flash: 200 msec on 200 msec off	Dipswitch is set outside of the acceptable range: 0-150 for CLs/DCs and 0-30 for LCDs, ANNs, and MQCs.	Set Dipswitch to acceptable address.
3 blinks every 3.2 seconds	No K-Bus activity for 10 seconds	Check K-Bus connection
2 blinks every 3.2 seconds	K-Bus activity is present, but not for this device	Check software configuration
1 blink every 3.2 seconds	Normal activity during the first 60 seconds or less after power up	None required
No Blinks	Normal activity	None required

Table 25: K-Bus Heartbeat Legend

Corridor Light Self Tests

All Corridor Lights/Domeless Controllers come with self test. These tests can be accessed by removing the power from the CL/DC, changing the address as shown below, then applying power.

Address	Test	What it Does
255 (11111111)*	LED test “on”	Turns on all CL/DC lamps and call assurance LEDs. The heartbeat LED will turn off.
254 (01111111) *	LED test “off”	Opposite of address 255. Turns off all CL/DC lamps and call assurance LEDs. The heartbeat LED will turn on steady.
253 (10111111)*	Transceiver test	The CL/DC will transmit data and verify it. The heartbeat LED will turn on steady if it passes.
252 (00111111)*	EEPROM test	The CL/DC will write, read and verify a pattern to/from its EEPROM. The heartbeat LED will turn on steady if it passes.
251 (11011111)*	A/D comparator test	The CL/DC will verify its analog to digital comparator is working properly. The heartbeat LED will turn on steady if it passes.
250 (01011111)*	Watchdog test	In-house use only.
249 (10011111)*	CLA214D tone test #1	A CLA214D will produce a tone through an R4KDY attached to station position 1A/1B.
248 (00011111)*	CLA214D tone test #2	A CLA214D will produce and measure a tone decay. It will light the heartbeat LED if it passes.
247 (11101111)*	CLA214D tone test #3	In-house use only.

*1 = ON and 0 = OFF

Table 26: Corridor Light/Domeless Controller self tests

“Fail-Safe” Corridor Light Operation

In the event a Corridor Light keeps a viable power connection, but loses communication with its R4KNIM, it will automatically enter “fail safe” mode. In this mode, it will provide visual call annunciation for those stations connected to its ports—using a factory-designated (and unalterable) blinking pattern. These calls will **not** display at covering Consoles, Pagers, and/or Marquees.

Fail-safe mode does **not** support audio communication nor does it apply to Domeless Controllers of any type. When expected communication is reestablished with head-end