



Blue Light Housing Installation Instructions

September 9, 2026

Table of Contents

Site Preparation

1. Power Requirements
2. Structural Requirements

Mounting

1. Wall Station – Concrete Wall
2. Wall Station – Sheetrock Wall
3. Tower

Wiring

1. Connecting the BLH to Power – 120 VAC
2. Connecting the BLH to Power – POE
3. Connecting the Intercom to the BLH Control Board
4. Connecting the BLH Control Board to Ethernet (Max BLHs Only)
5. Connecting the BLH Control Board to Cellular (Max BLHs Only)
6. Connecting the Antenna to the BLH Control Board (Max BLHs Only)

Verifying Connectivity

1. Control Board
2. Ethernet Module
3. Cellular Module
4. Lights

Lighting Control

1. Adjusting the Lights on a Lite BLH
2. Adjusting the Lights on a Max BLH

Site Preparation

1. Power Requirements

In addition to safety, the ability to route power and/or data to the BLH's intended location should also be given consideration. Running high voltage lines to the BLH location should be done by a licensed electrician in accordance with NEC Standards.

The wall station BLH requires 120 VAC and consumes approximately 40.3 Watts before the addition of 3rd party devices (the unit can also be powered with POE if specified to Pedestal PRO prior to purchase). The conduit should emerge from the wall so it can pass through the central hole of the mounting panel (see Figure 1).

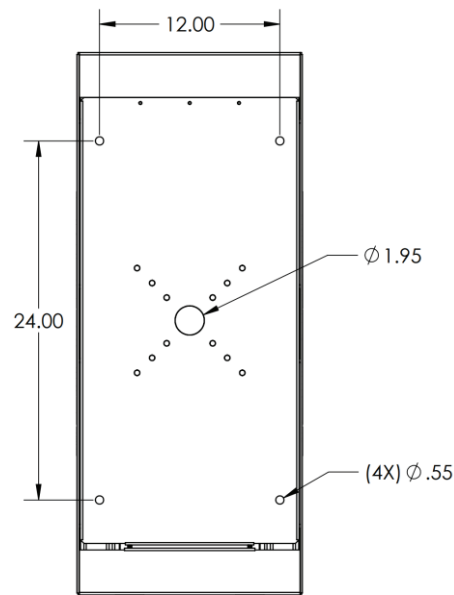


Figure 1 Rear side of a wall station BLH showing the conduit and mounting holes on the mounting panel.

The tower BLH requires 120 VAC and consumes 91.4 Watts before the addition of 3rd party devices. The conduit should emerge from the pad so it can pass through the central hole of the base plate (see Figure 2).

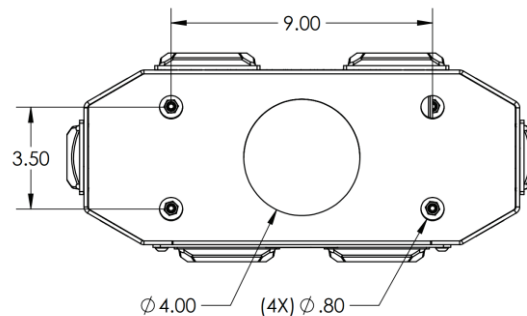


Figure 2 Underside of a tower BLH showing the conduit and mounting holes on the base plate.

See *BLH Power Supply Options* for more info.

2. Structural Requirements

The wall station BLH should be mounted to concrete using wedge anchors or to the studs and sheetrock using lag and toggle bolts. When mounting to sheetrock, ensure that at least two of the four mounting holes allow for lag bolting the unit to a stud.

The tower BLH should be mounted to studs secured on a concrete pad in the ground. Pedestal PRO recommends one of the following methods for placing these studs:

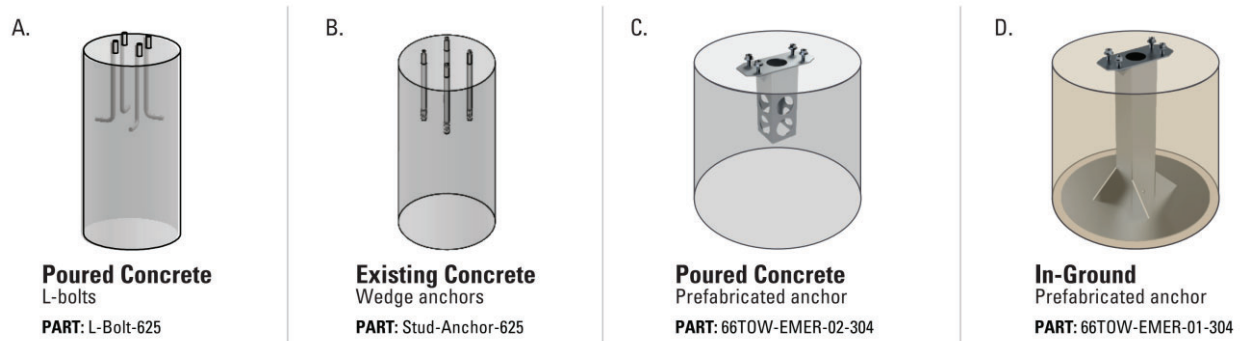


Figure 3 Fast Foundation options for mounting the tower BLH.

A. Pour concrete around L-bolts that match the base plate pattern (see Figure 2). The concrete block should have at least a 36-inch diameter and a 36-inch depth. See *L-Bolt-625* on the Pedestal PRO website.

B. Install wedge anchors into existing concrete to match the base plate pattern (see Figure 2). The concrete block should have at least a 36-inch diameter and a 36-inch depth. See *Stud-Anchor-625* on the Pedestal PRO website.

C. Pour concrete around Pedestal PRO's prefabricated anchor. The concrete block should have at least a 36-inch diameter and a 36-inch depth. See *66TOW-EMER-02-304* on the Pedestal PRO website.

D. Bury Pedestal PRO's prefabricated anchor. The hole should be packed and leveled until it has a 36-inch diameter and a 36-inch depth. After placing the anchor in the hole, backfill the cavity with more gravel and dirt. See *66TOW-EMER-01-304* on the Pedestal PRO website.

Mounting

1. Wall Station - Concrete Wall

Tools/Hardware Required:

- Hammer drill
- ¼" masonry drill bit
- Hammer
- ¼-20 x 5" wedge anchor (4x)
- Torque wrench
- 7/16" socket
- Driver
- Marking tool
- Level
- Silicon-based caulk

Steps:

- Remove the grommets on the underside of the wall station (see Figure 4).
- Use the driver and 7/16" socket to remove the ¼-20 hex bolts which secure the mounting panel to the wall station unit (see Figure 4).
- Remove the mounting panel.
- Place it against the wall with the conduit passing through its central hole. Use the level for proper alignment.
- Mark the mounting hole locations on the wall and set the mounting panel aside (see Figure 1).
- Use the drill and ¼" masonry drill bit to drill out the concrete in these locations. Make sure the holes are clear of debris.
- Use the hammer to insert the wedge anchors in the holes.
- Remove the nuts and washers from the wedge anchors.
- Place the mounting panel against the wall with the conduit passing through its central hole and the wedge anchors passing through the mounting holes.
- Replace the nuts and washers and level the mounting panel.
- Use the torque wrench and 7/16" socket to tighten the nuts to 26 ft-lbs.
- Perform wiring and installation of 3rd party devices on the wall station unit. See the *Wiring* section of this manual.
- Hang the wall station unit on the hook of the mounting panel and push it flush against the wall.
- Use the driver and 7/16" socket to install the ¼-20 hex bolts. Use the torque wrench to tighten them to 4 ft-lbs.
- Replace the grommets.
- Caulk the crack between the wall station and the wall.

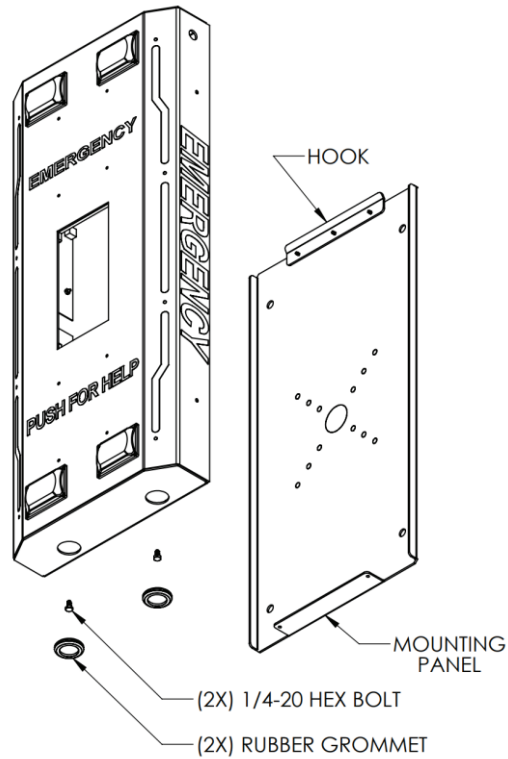


Figure 4 Exploded view of the wall station BLH.

2. Wall Station - Sheetrock Wall

Tools/Hardware Required:

- Drill
- 5/32" drill bit
- 5/8" drill bit
- Driver
- Phillips screwdriver bit
- 7/16" socket
- 1/4" lag bolts (2x)
- 1/4" toggle bolts (2x)
- Marking tool
- Level
- Silicon-based caulk

Steps:

- Remove the grommets on the underside of the wall station (see Figure 4).
- Use the driver and 7/16" socket to remove the 1/4-20 hex bolts which secure the mounting panel to the wall station unit (see Figure 4).
- Remove the mounting panel.

- Place it against the wall with the conduit passing through its central hole. Use the level for proper alignment.
- Mark the mounting hole locations on the wall and set the mounting panel aside (see Figure 1).
- Use the drill and 5/32" drill bit to drill holes for mounting to the stud.
- Use the drill and 5/8" drill bit to drill two holes for mounting to the sheetrock.
- Place the mounting panel against the wall with the conduit passing through its central hole and its mounting holes lined up with the drilled holes.
- Use the driver and 7/16" socket to install the 1/4" lag bolts through the sheetrock and into the stud.
- Use the driver and Phillips screwdriver bit to install the 1/4" toggle bolts to the sheetrock.
- Perform wiring and installation of 3rd party devices on the wall station unit. See the *Wiring* section of this manual.
- Hang the wall station unit on the hook of the mounting panel and push it flush against the wall.
- Use the driver and 7/16" socket to install the 1/4-20 hex bolts. Use the torque wrench to tighten them to 4 ft-lbs.
- Replace the grommets.
- Caulk the crack between the wall station and the wall.

3. Tower

Tools/Hardware Required:

- Driver
- T27 security bit
- Torque wrench
- 15/16" socket
- 9 ft ladder

Steps:

- Implement a Fast Foundation option (see Figure 3).
- Remove the access panels using the driver and T27 security bit (see Figure 5).
- Lift the tower and place it on the pad with the conduit passing through the central hole and the studs passing through the mounting holes in the base plate (see Figure 2).
- Install the 5/8-11 nuts and 5/8" washers onto the studs. Use the torque wrench and 15/16" socket to tighten to 90 ft-lbs.
- Perform wiring and installation of 3rd party devices on the tower. See the *Wiring* section of this manual.
- Re-install the access panels by using the driver and T27 security bit.

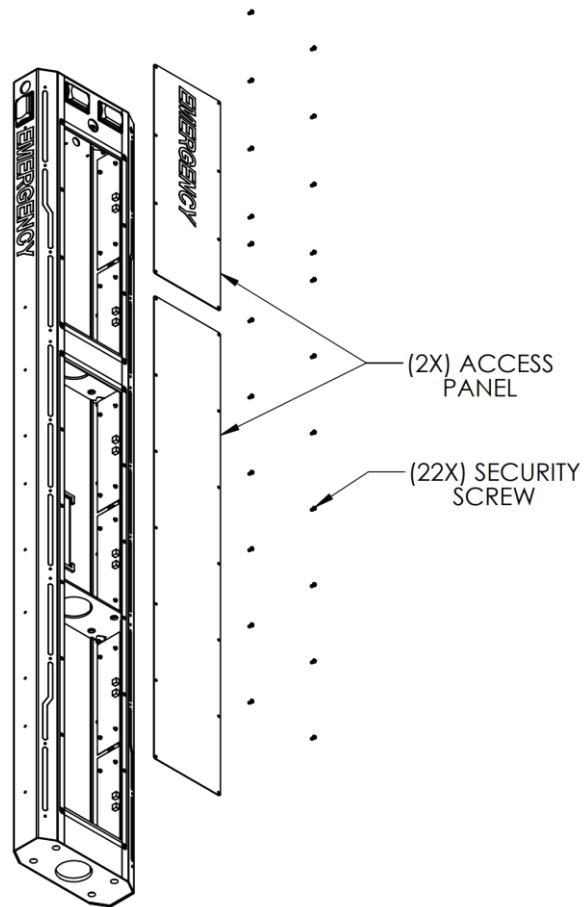


Figure 5 Exploded view of the tower BLH.

Wiring

High voltage wiring should be performed by a licensed electrician and in accordance with NEC Standards. Wiring should be performed only when the main power is OFF to avoid electrocution.

1. Connecting the BLH to Power – 120 VAC

Tools/Hardware Required:

- Wire strippers
- 1/8" flathead screwdriver

Steps:

- Prepare Live, Neutral, and Ground leads that originate from the main power in the conduit by stripping away 3/8" of insulation from the wire ends with the wire strippers.
- Insert the Leg lead into the Leg terminal on the power supply, labeled "L" (see Figure 6). Use the 1/8" flathead screwdriver to tighten the port screw.
- Insert the Neutral lead into the Neutral port on the power supply, labeled "N" (see Figure 6). Use the 1/8" flathead screwdriver to tighten the port screw.



Figure 6 Isometric view of the power supply with the "L" and "N" ports on the lower left.

- Insert the Ground lead into the lever wire connector that is attached to the green grounding wire on a din rail. Clamp the lever down (see Figure 7).

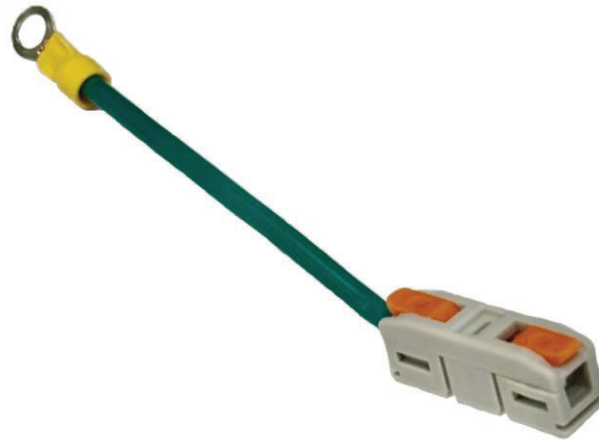


Figure 7 The green grounding wire with the lever wire connector.

2. Connecting the BLH to Power – POE

If a BLH needs to be powered with POE, this requirement should be specified prior to purchase so Pedestal PRO can provide a POE splitter with the unit.

Steps:

- Insert an ethernet cable with an RJ45 male end into the female port labeled “POE In” on the POE splitter provided (see Figure 8). Ensure this ethernet cable carries both power and data.



Figure 8 The POE splitter with the "POE In" port in the middle.

3. Connecting the Intercom to the BLH Control Board

Tools/Hardware Required:

- 1/8" flathead screwdriver (if necessary)
- Intercom installation manual

Steps:

- Reference the intercom installation manual to determine which ports output a low voltage signal to indicate the emergency button has been depressed.
- Locate the red and black leads connected to the +/- ALARM ports on the terminal block on the BLH control board and connect them to their proper ports on the intercom (see Figure 9).

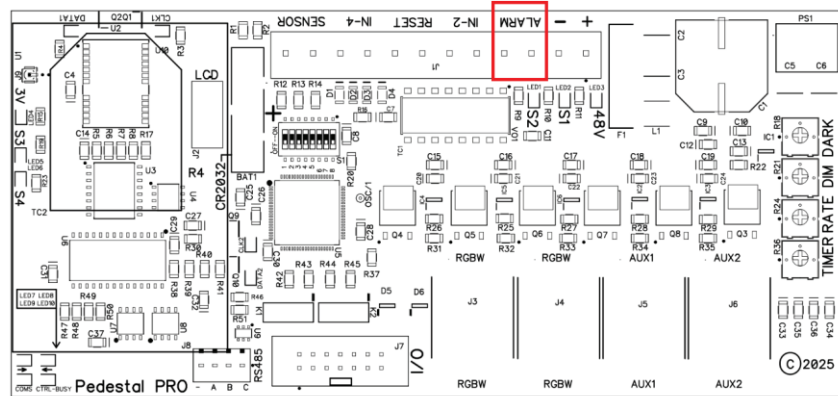


Figure 9 Control board layout showing the location of the +/- ALARM ports on the terminal block.

4. Connecting the BLH Control Board to Ethernet (Max BLHs Only)

Before purchasing a Max BLH, specify to Pedestal PRO how the BLH should connect to the internet—ethernet or cellular.

Tools/Hardware Required:

- POE Switch

Steps:

- Locate the 3 ft ethernet cable packaged inside the BLH unit.
- Insert one end of this ethernet cable into the ethernet module on the BLH control board (see Figure 10).
- Insert the other end of this ethernet cable into an available data port on the 3rd party POE switch.

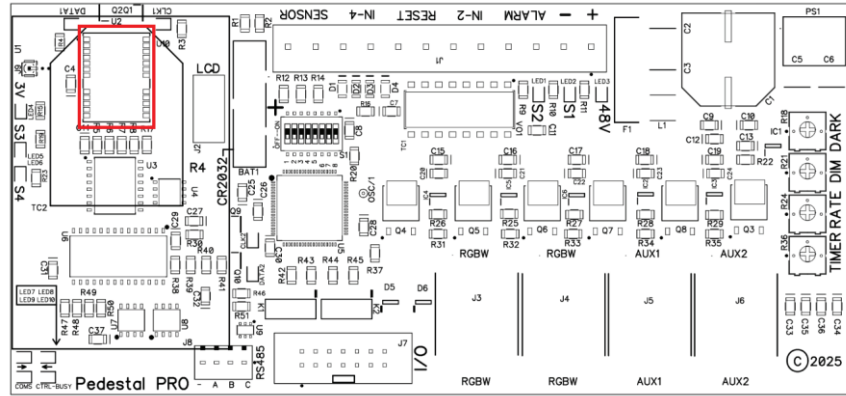


Figure 10 Control board layout showing the location of the ethernet port.

5. Connecting the BLH Control Board to Cellular (Max BLHs Only)

Before purchasing a Max BLH, specify to Pedestal PRO how the BLH should connect to the internet—ethernet or cellular.

No wiring is required to connect a BLH control board to a cellular network.

6. Connecting the Antenna to the BLH Control Board (Max BLHs Only)

Tools/Hardware Required:

- Crescent wrench

Steps:

- Locate the antenna packaged inside the BLH unit.
- Untwist the ties on the antenna cables and remove the nut, tooth lock washer, and red plastic washer (see Figure 11).

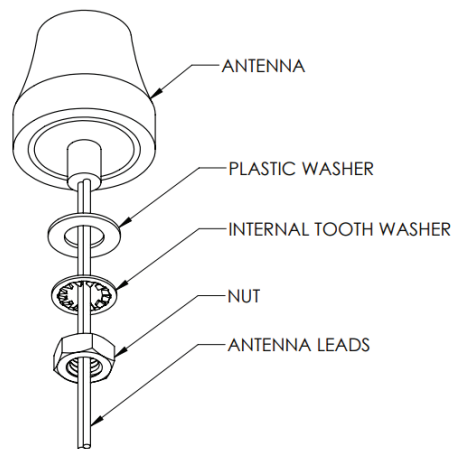


Figure 11 Exploded view of the antenna and its associated hardware.

- Feed the cables through the hole in the top cap until the antenna sits on the surface (see Figure 12).

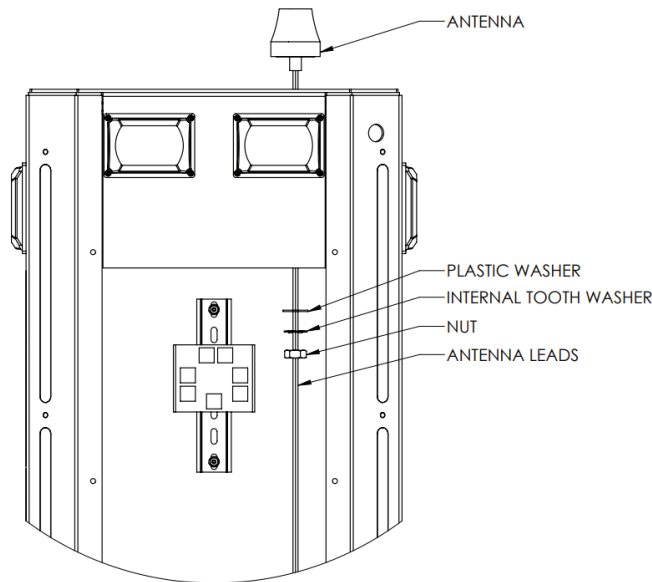


Figure 12 Rear view of a tower showing proper installation of the antenna.

- Thread the red plastic washer, tooth lock washer, and nut back onto the antenna cables (see Figure 12).
- Use the crescent wrench to tighten the nut onto the antenna stem until it sufficiently clamps the top surface of the tower for a water-tight seal.
- Feed these cables through the wire pass holes in the ribs.
- Locate the coaxial port on the control board and gently thread the GPS antenna cable to it (see Figure 13).
- If the control board is configured to connect via cellular, locate the coaxial port on the cellular module (attached to the control board) and gently thread the LTE antenna cable to it.

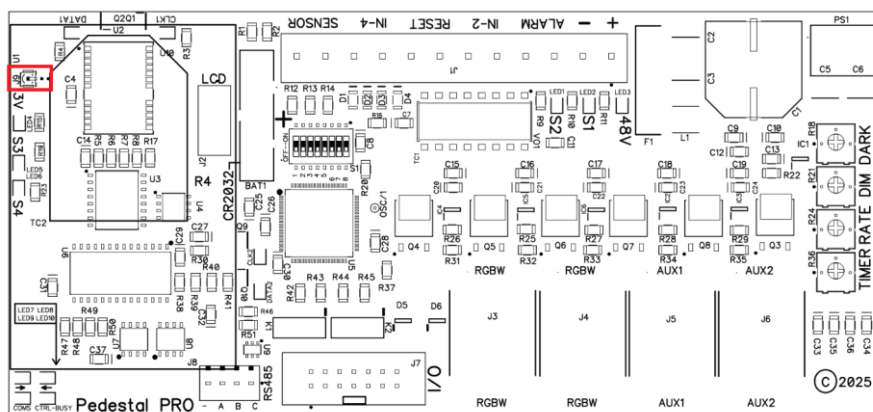


Figure 13 Control board layout showing the location of the coaxial port for the antenna.

See *BLH Power Supply Options* for general wiring schematics.

Verifying Connectivity

After wiring has been completed, turn the main power ON. Review the LED indicators on each of these components on the control board to verify connectivity (if applicable):

1. Control Board (see Figure 14)

- 3V: solid green
- 48V: solid green

2. Ethernet Module (see Figure 14)

- POWER ON: solid red LED
- PEDESTAL PRO OK: solid green
- LINK OK: solid green LED
- MODULE OK: flashing green

3. Cellular Module (see Figure 14)

- SIGNAL: solid green
- SLEEP: solid green
- CONNECT: flashing green

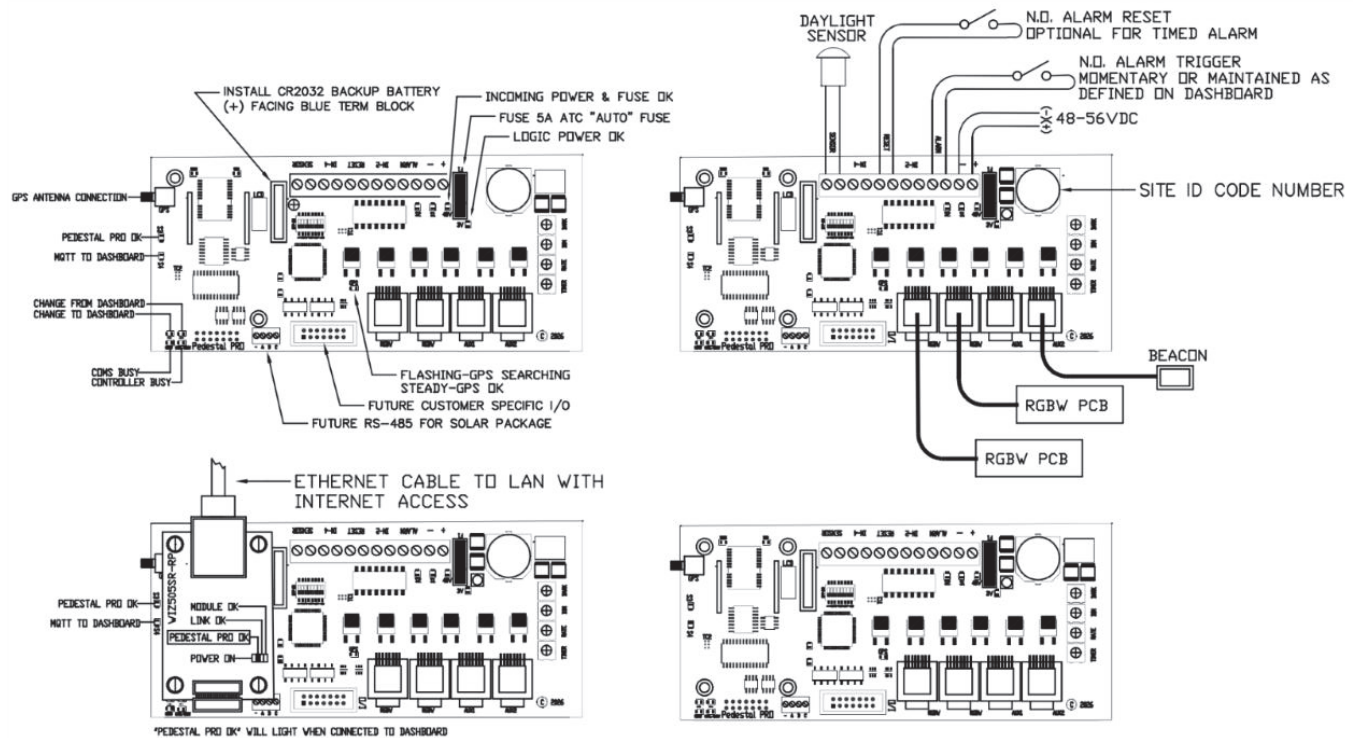


Figure 14 Control board and its wire/cable connections.

4. Lights

- Brick lights are ON
- Depressing the alarm button causes the brick lights and pathway lights to flash

Lighting Control

1. Adjusting the Lights on a Lite BLH

The following features are adjustable using a small Phillips screwdriver to turn the screws of the potentiometers on the BLH control board:

- Strobe Duration (TIMER)
- Strobe Frequency (RATE)
- Brightness (DIM)
- Photocell Sensitivity (DARK)

Further light adjustments can be made by manipulating the dipswitches on the control board (see Figure 15).

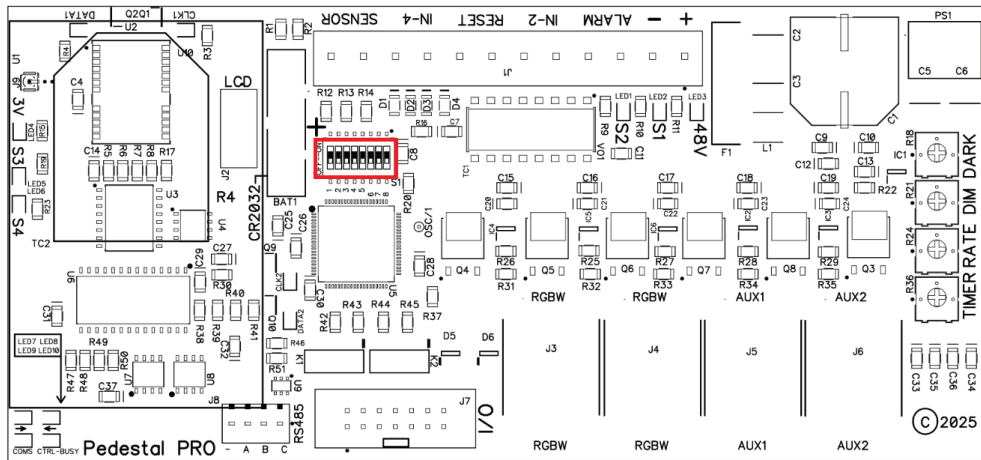


Figure 15 Control board layout showing the location of the dipswitches.

See the following table of dipswitch configurations for available light adjustments.

	OFF	ON	
DIPSWITCH 1	X		RED/BLE FLASHING DURING AN ALARM EVENT
DIPSWITCH 2	X		
DIPSWITCH 1		X	RED/YELLOW DURING AN ALARM EVENT
DIPSWITCH 2	X		
DIPSWITCH 1	X		RED/WHITE DURING AN ALARM EVENT
DIPSWITCH 2		X	
DIPSWITCH 1	X		WHITE/YELLOW DURING AN ALARM EVENT
DIPSWITCH 2		X	
DIPSWITCH 3	X		PHOTOCELL LONG TIMER (NORMAL MODE)
		X	PHOTOCELL SHORT TIMER (FOR TESTING PATHWAY LIGHTS)
DIPSWITCH 4	X		BRICK LIGHTS ALWAYS ON
		X	BRICK LIGHTS OFF EXCEPT DURING AN ALARM EVENT
DIPSWITCH 5	X		WHITE PATHWAY LIGHTING
		X	BLUE PATHWAY LIGHTING

2. Adjusting the Lights on a Max BLH

Management of Max BLHs is available on blhero.com. See BLH Customer Onboarding Guide for a website tutorial.