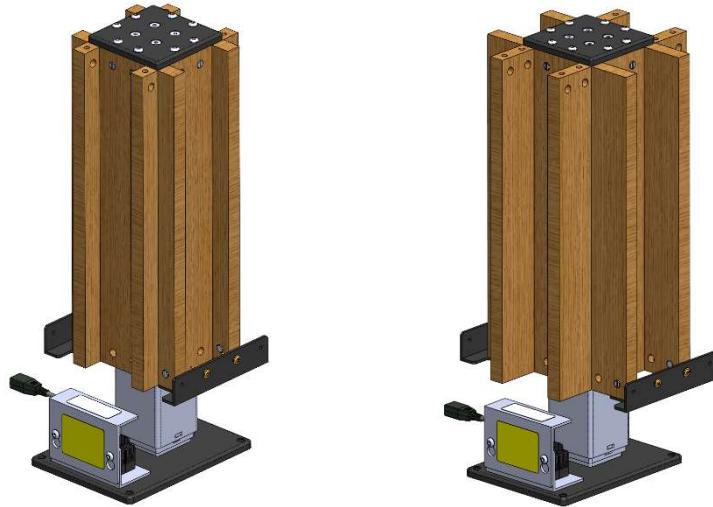


# Mark Eaton LLC

<https://markeatonllc.com>

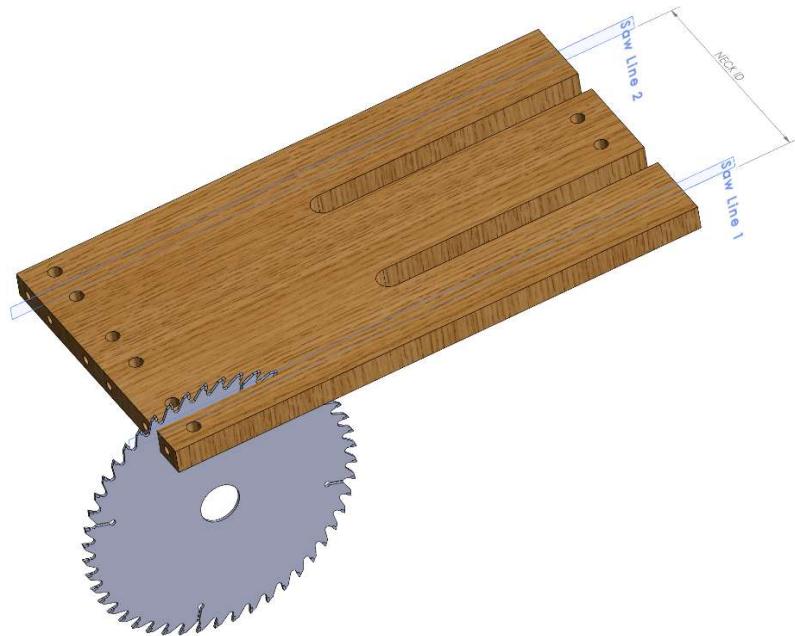
## PL2022A Podium/Pulpit Lift

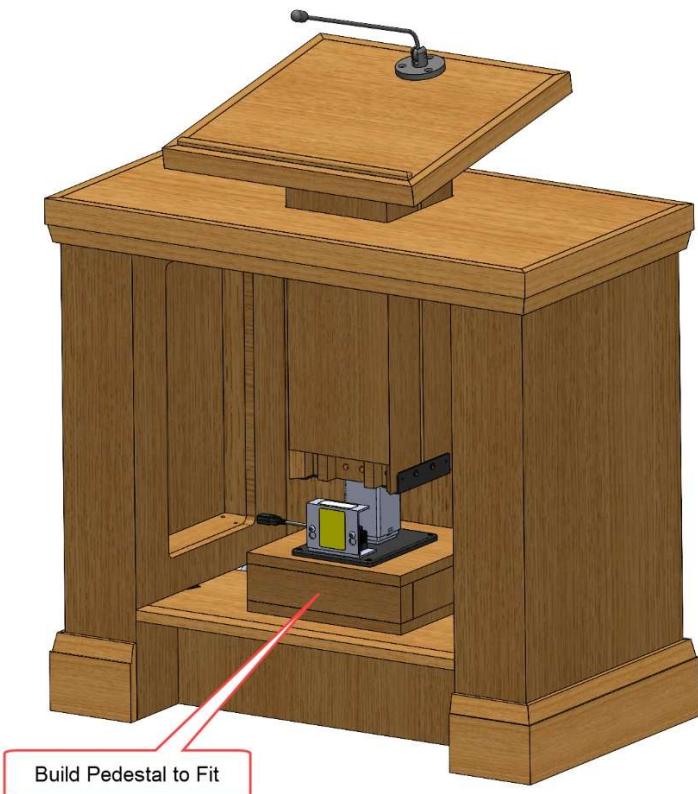
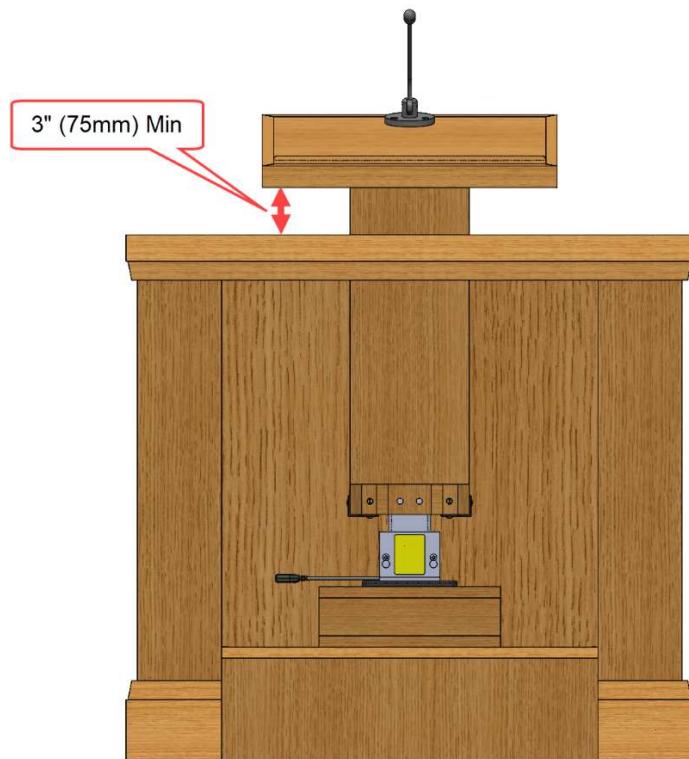


For Assembly Instructions please watch the YouTube video here:  
<https://www.youtube.com/watch?v=UQrWDucDCjk> or scan this QR Code  
with your cell phone or tablet.

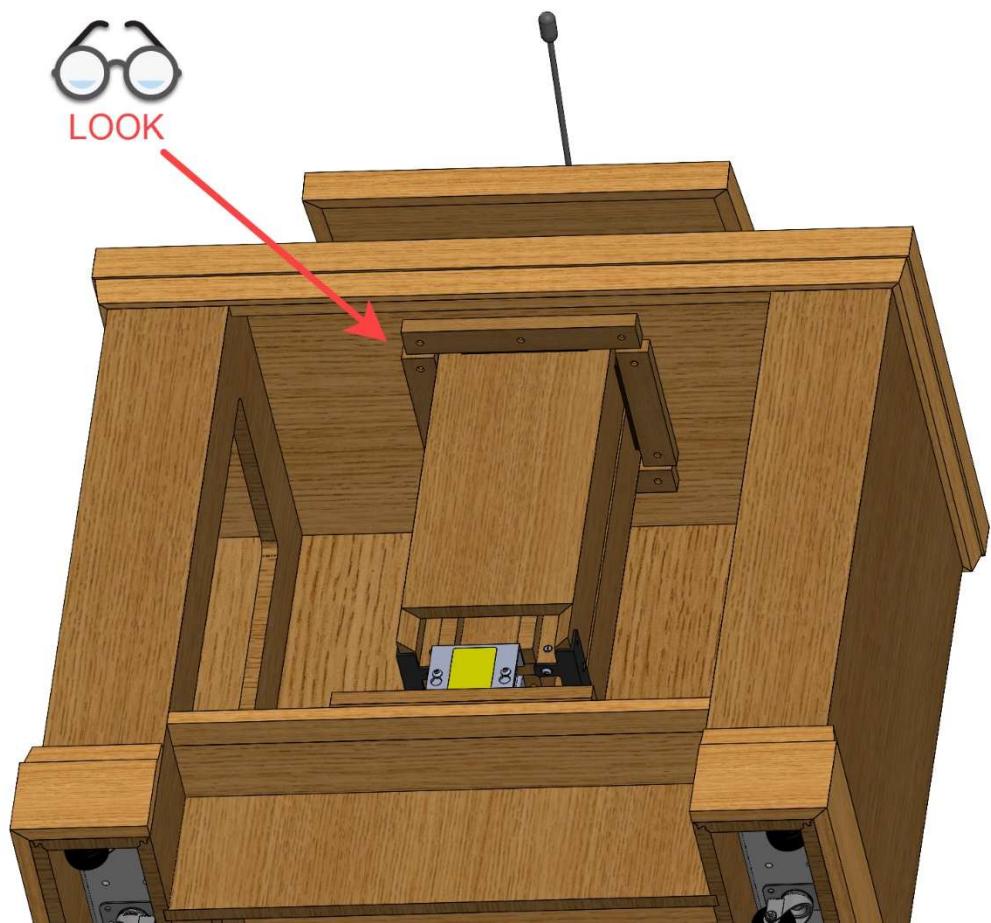
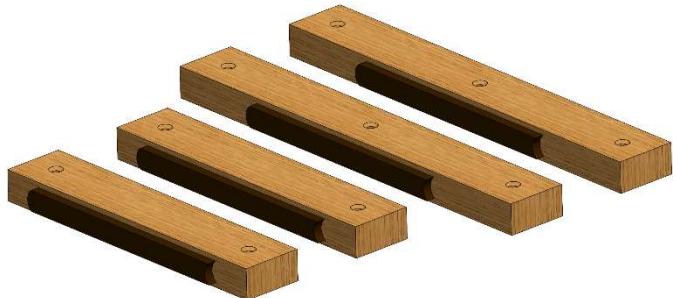


If required, cut column boards to fit neck ID prior to assembly.

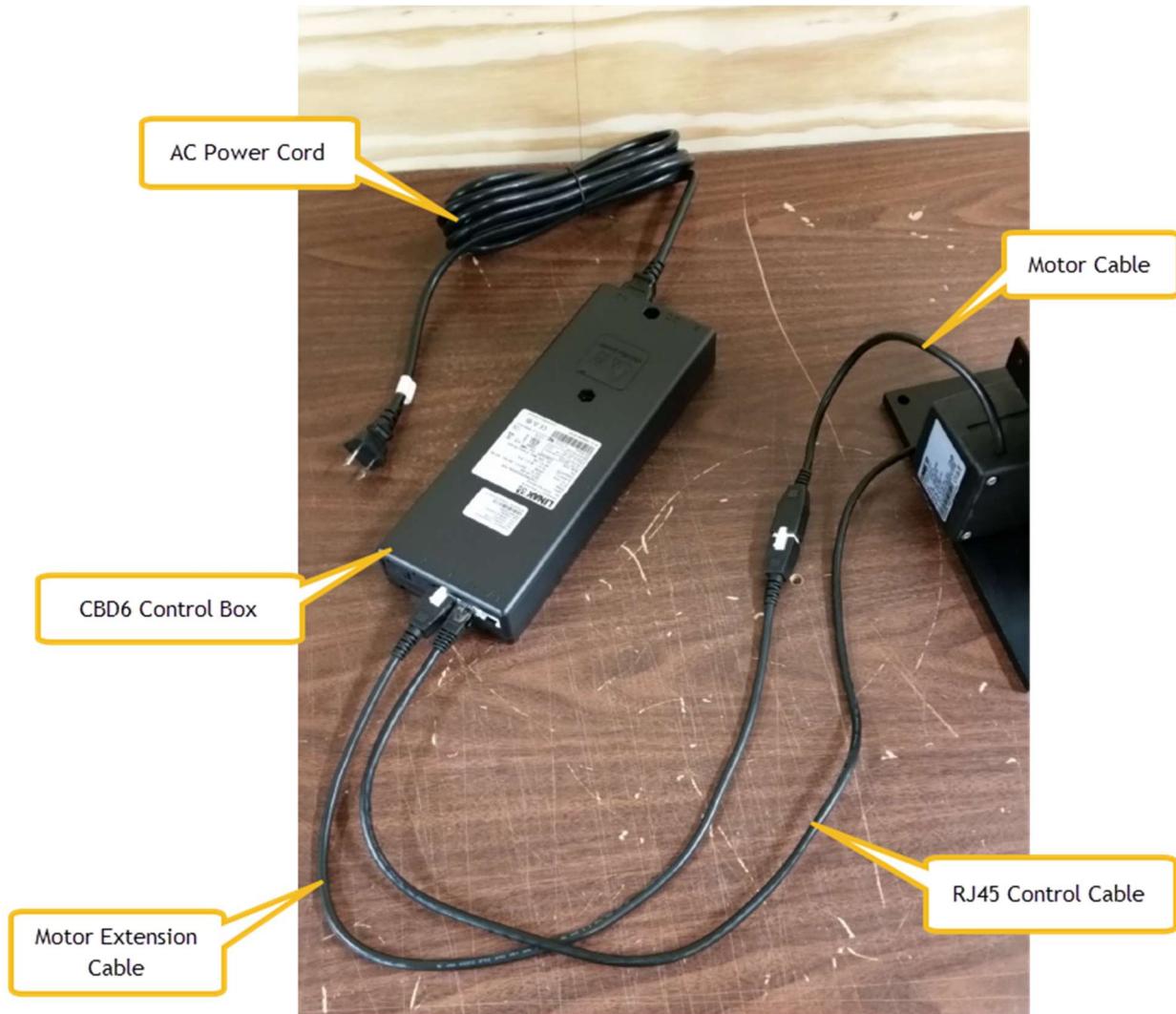




An Installation Kit is provided for your convenience. Please install as shown below.



ALL cables must be connected to the CBD6 Control Box for proper operation.



Check the outlet for proper AC power: 90-240VAC, single phase, 50-60 Hz.

There is no power indicator on the CBD6 Control box. But there is one on the surge cube that this lift should be plugged into.



# Desk Panels

Plug the desk panel that has been provided into either port A1 or A2 of the Podium/Pulpit lift control box (CBD6).

The DOWN arrow button will run the lift to the internal lower limit switch.

With the lift at the lower limit, if you press and hold the Down Arrow for 15-30 sec the lift will lower and raise (squat) approx. 1/8". This process is known as "homing" or "zeroing" the lift.

The UP arrow button will run the lift to the internal upper limit. This limit is programmed at the factory at 12"(305mm). This lift has a physical travel limit of 26"(660mm).

This model Desk Pannel has been discontinued.

It is shown here for reference only.



Once the lift has been homed you can run it up to a given height, for example the stain line on the neck, then press and hold the S button and then press the 1 button and then release both to store the current location as a soft upper limit. Once this soft limit is set the Bishops' control panel will only run the lift down to lower internal limit and up to the soft upper limit.

This is the current model supplied with every lift.



Once the lift has been homed you can run it up to a given height, for example the stain line on the neck, then press and hold the S button and then press the 1-dot button and then release both to store the current location as a soft upper limit. Once this soft limit is set the Bishops' control panel will only run the lift down to lower internal limit and up to the soft upper limit.

You will need to use the UP arrow on this desk panel to run the lift higher if you need to program a new soft upper limit. This process can be repeated as needed.

Keep this panel in your truck or office to use on future installations or for trouble shooting.

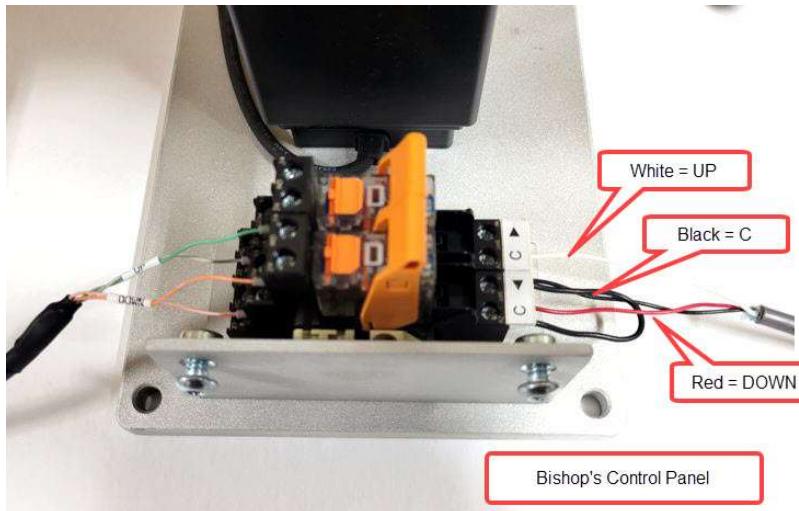
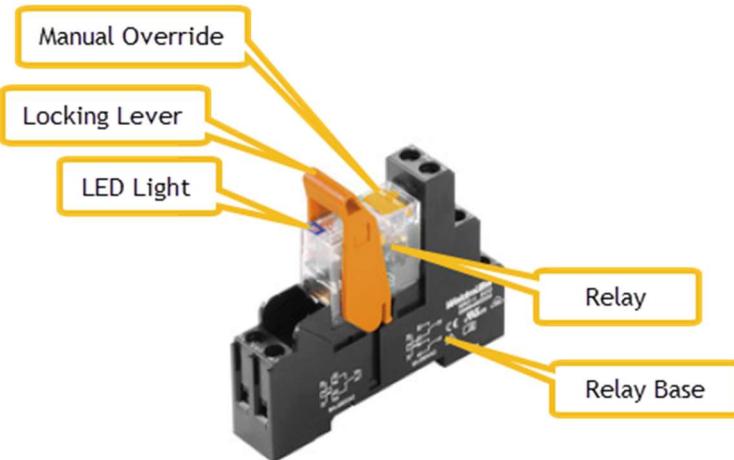
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# **Relays for PL2022A Podium/Pulpit Lifts**

Two versions of relays are used on the PL2022A Lift systems.

It is important that you identify which relay is supplied with your system.

Option 1:



There is an LED indicator on the relay. It will be lit when the relay is under power.

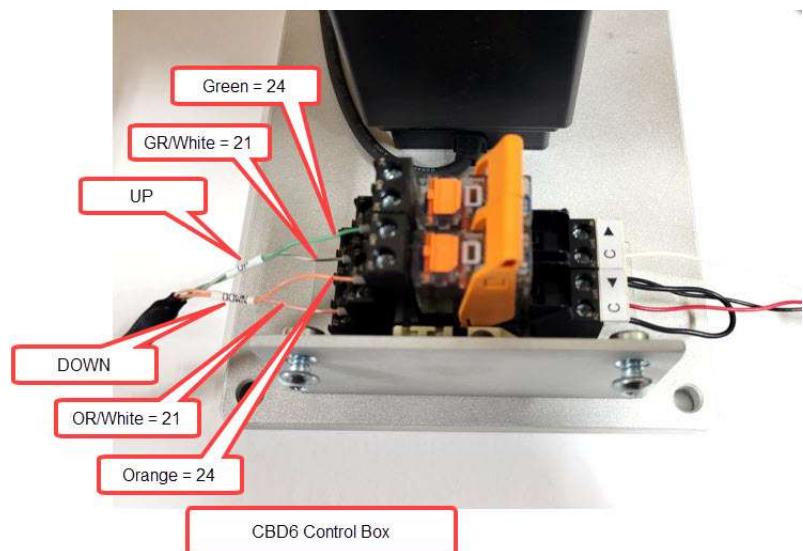
To manually activate the relay without power, tip the orange manual override hinge up from the center of relay.



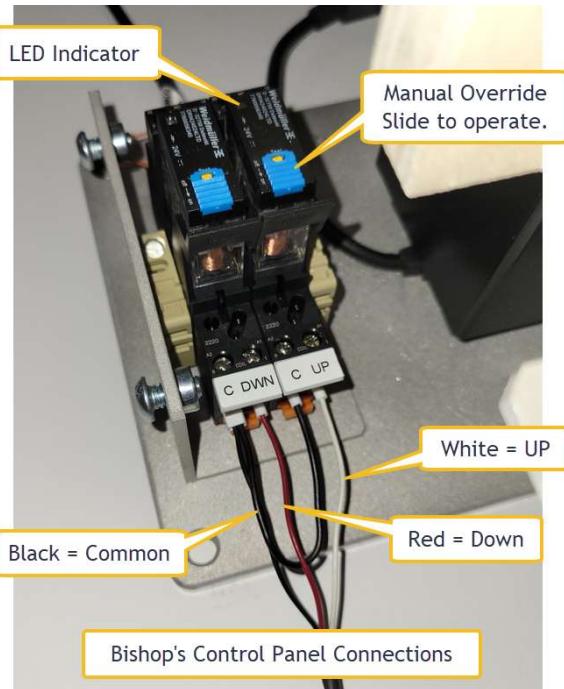
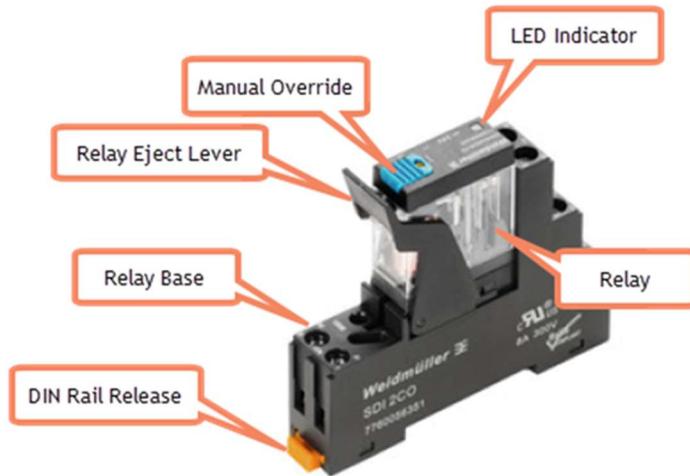
Note: the image to the right illustrates how to connect the relays to the CBD6 control box using the supplied RJ45 cable.

**Notice that on this type of relay that the bottom row of connections is not used.**

The Orange & OR/White wires can be switched. Also, the Green & GR/White wires can be switched. However, they must be used in pairs



## Option 2:



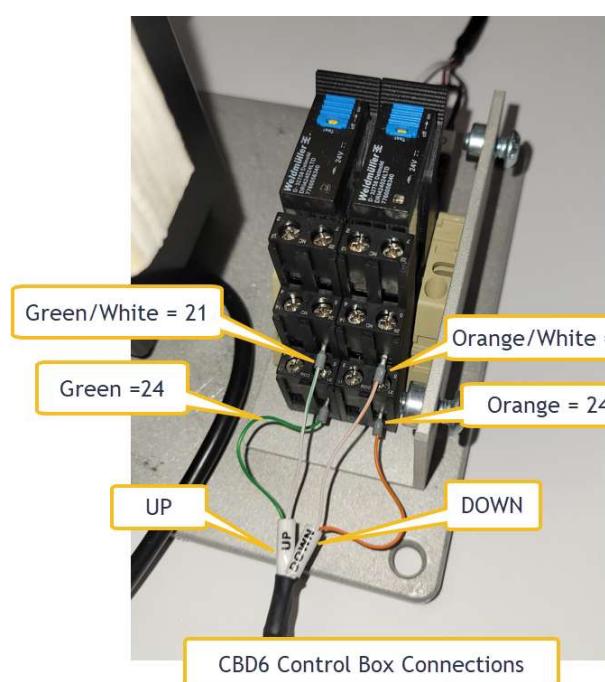
There is an LED indicator on the relay. It will be lit when the relay is under power.

By sliding the blue manual override toward the eject lever will manually activate the relay without power. Alternately, you can use a small tool to press the yellow button located in the blue slide to activate the relay without power.



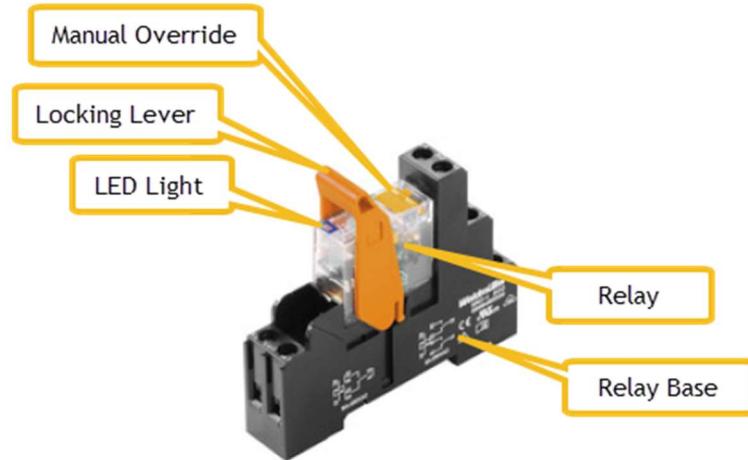
Note: the image to the right illustrates how to connect the relays to the CBD6 control box using the supplied RJ45 cable.

Notice that on this type of relay that the **top** row of connections is not used. The Orange & Orange/White wires can be switched. Also, the Green & Green/White wires can be switched. However, they must be used in pairs



# Relay Datasheets

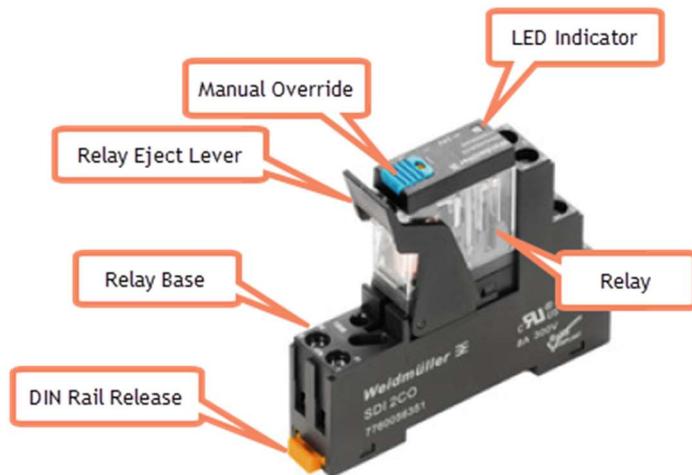
Option 1 Datasheet:



Specs for the Bishops' Control side (Coil Side):

Input	
Rated control voltage	24 V DC
Power rating	420 mW
Coil resistance	1440 Ω ± 10 %
Protective circuit	Free-wheel diode
Connection data	
Wire connection method	Screw connection
Tightening torque, min.	0.5 Nm
Clamping range, rated connection	2.5 mm <sup>2</sup>
Clamping range, max.	2.5 mm <sup>2</sup>
Wire cross-section, solid, max.	2.5 mm <sup>2</sup>
Wire connection cross section, finely stranded, max.	2.5 mm <sup>2</sup>
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max.	2.5 mm <sup>2</sup>
Conductor cross-section, flexible, AEH (DIN 46228-1), max.	2.5 mm <sup>2</sup>
Wire cross-section, finely stranded, two clampable wires, max.	1.5 mm <sup>2</sup>
Stripping length, rated connection	8 mm
Tightening torque, max.	0.7 Nm
Clamping range, min.	1 mm <sup>2</sup>
Wire cross-section, solid, min.	1 mm <sup>2</sup>
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min.	1 mm <sup>2</sup>
Conductor cross-section, flexible, AEH (DIN 46228-1), min.	1 mm <sup>2</sup>
Wire connection cross section, finely stranded, two clampable wires, min.	1 mm <sup>2</sup>
Blade size	size PZ1

## Option 2 Datasheet:



Specs for the control relay side (coil side):

Control side	
Rated control voltage	24 V DC
Power rating	530 mW
Coil resistance	1100 Ω ± 10 %
Status indicator	Green LED
Rated current DC	21.8 mA
Pull-in/drop-out voltage, typ.	18 V / 3.6 V DC
Coil tolerance	10 %
Protective circuit	Free-wheeling diode

Connection data	
Wire connection method	Screw connection
Tightening torque, min.	0.5 Nm
Clamping range, rated connection	1.5 mm <sup>2</sup>
Clamping range, max.	4 mm <sup>2</sup>
Wire cross-section, solid, max.	4 mm <sup>2</sup>
Wire connection cross section, finely stranded, max.	4 mm <sup>2</sup>
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max.	4 mm <sup>2</sup>
Conductor cross-section, flexible, AEH (DIN 46228-1), max.	4 mm <sup>2</sup>
Gauge to IEC 60947-1	A3
Stripping length, rated connection	8 mm
Tightening torque, max.	0.8 Nm
Clamping range, min.	0.25 mm <sup>2</sup>
Wire cross-section, solid, min.	0.25 mm <sup>2</sup>
Wire connection cross section, finely stranded, min.	0.25 mm <sup>2</sup>
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min.	0.25 mm <sup>2</sup>
Conductor cross-section, flexible, AEH (DIN 46228-1), min.	0.25 mm <sup>2</sup>
Blade size	size PH1

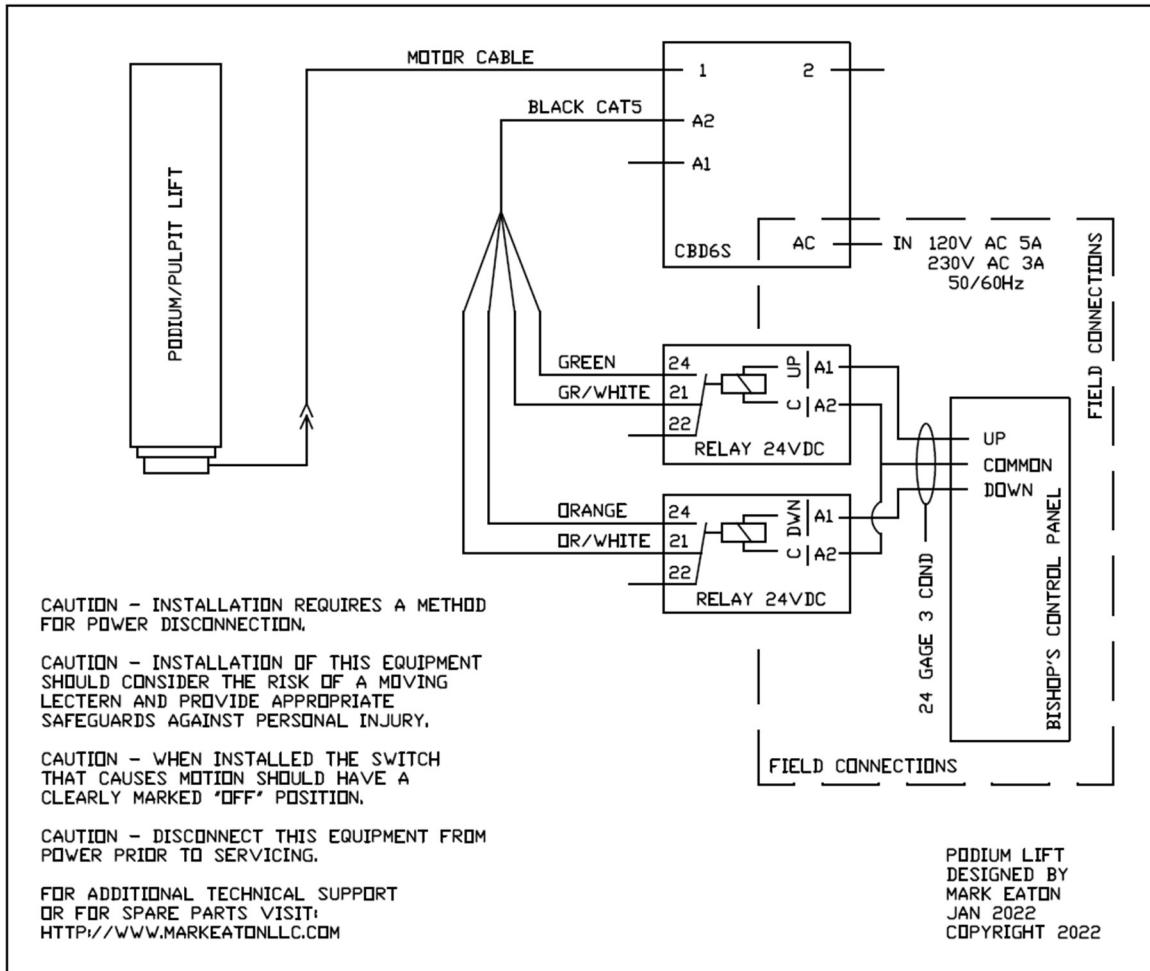
  

Classifications			
ETIM 6.0	EC001437	ETIM 7.0	EC001437
ETIM 8.0	EC001437	ECLASS 9.0	27-37-16-01
ECLASS 9.1	27-37-16-01	ECLASS 10.0	27-37-16-01
ECLASS 11.0	27-37-16-01	ECLASS 12.0	27-37-16-01

Approvals			
Approvals			
ROHS	Conform		

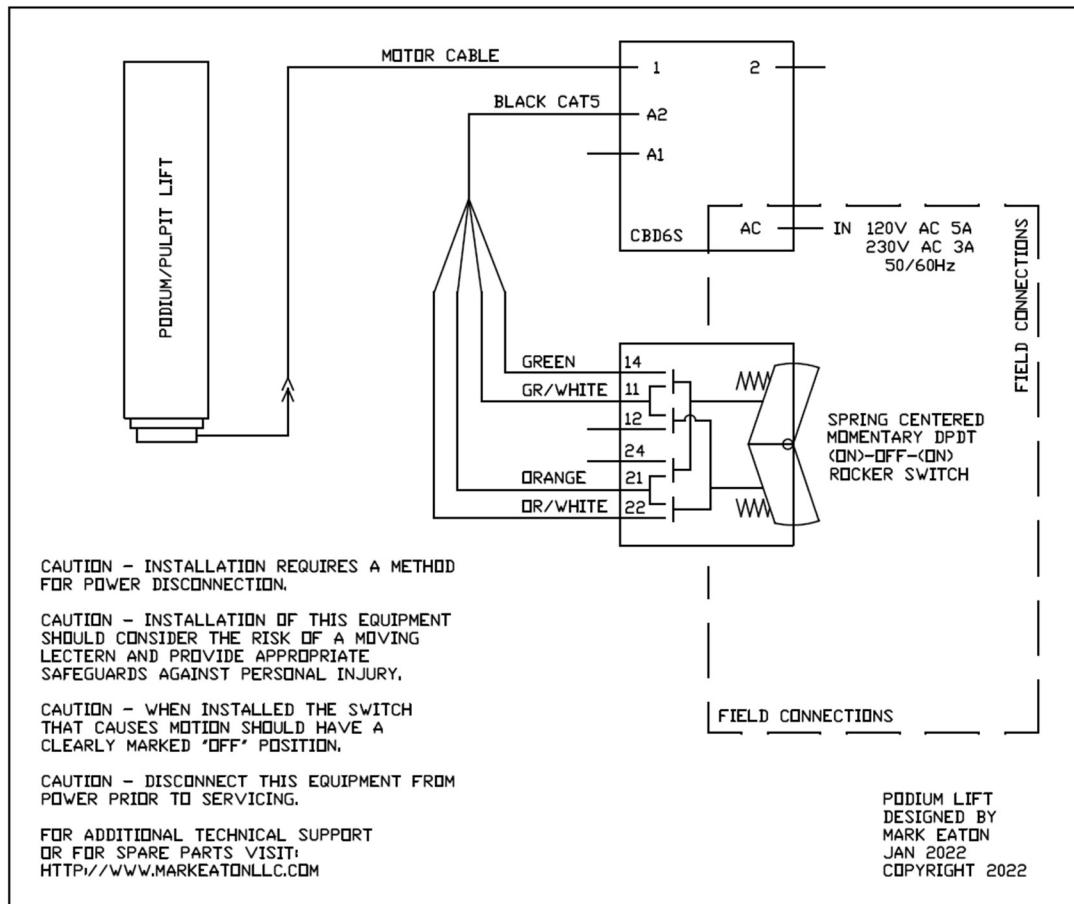
# Schematic for connecting to an IVIE Sound System



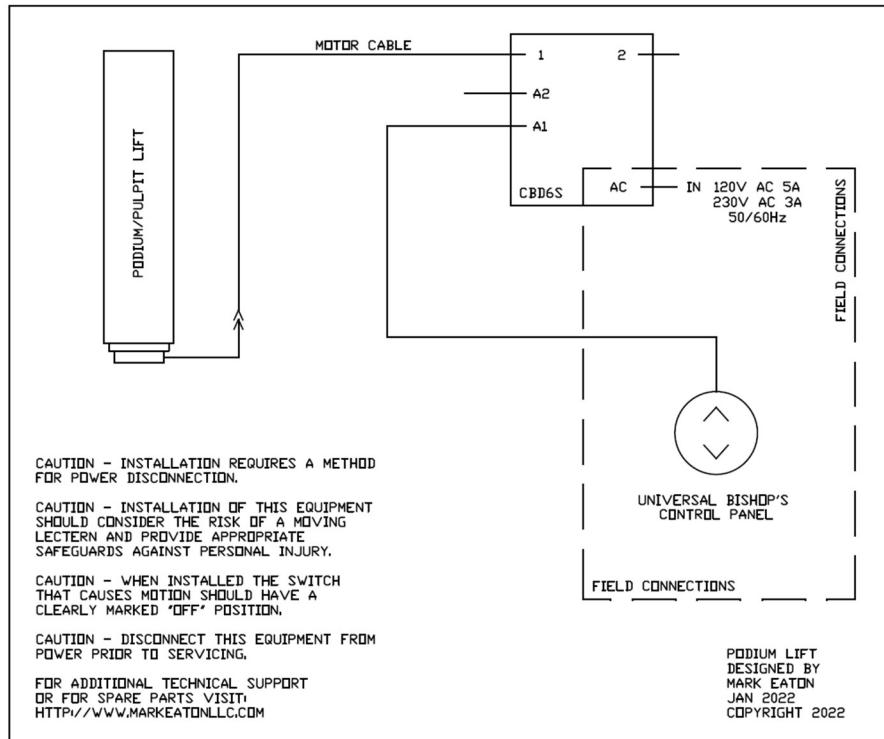
# Schematic for connecting a Stand Alone Pulpit/Podium Without a Sound System

The following three options will NOT work with a soft upper limit.  
Contact use if you require this type of function.

## Option 1: Rocker Switch

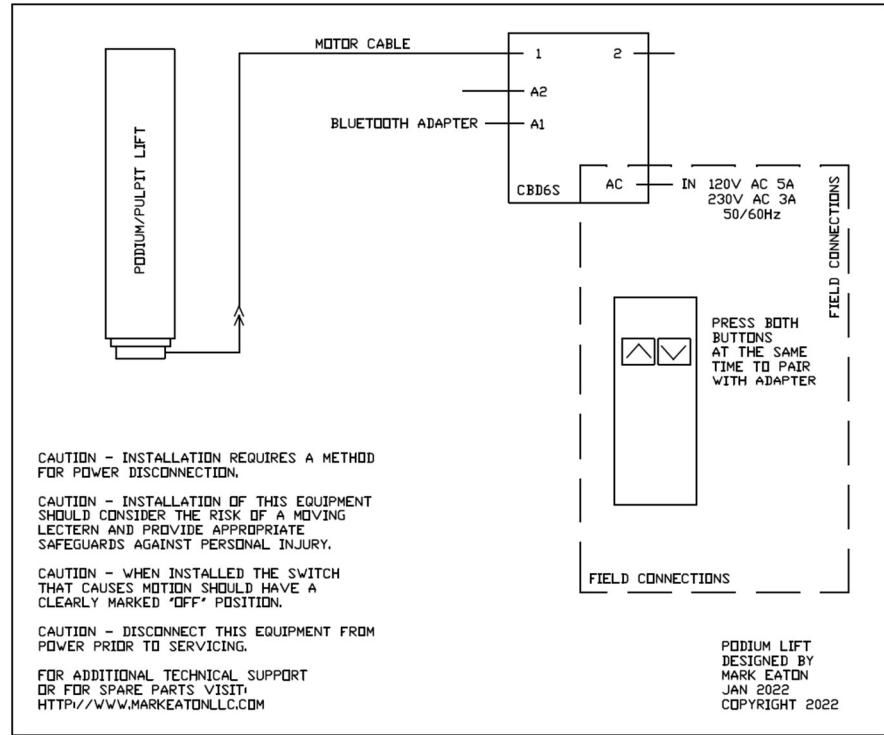


## Option 2: Universal Bishops' Panel



ALTERNATE CONNECTION WITH UNIVERSAL BISHOP'S CONTROL

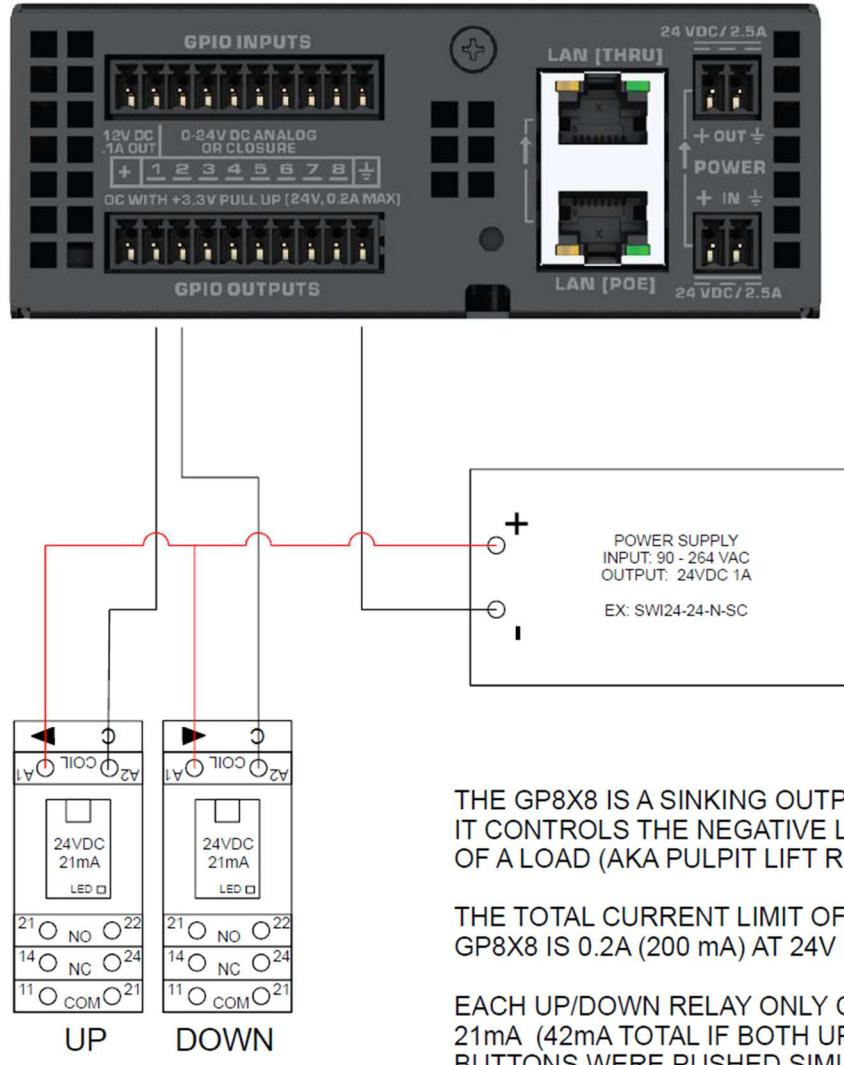
## Option 3: Bluetooth Cell App Or 2-Button Remote



ALTERNATE CONNECTION WITH BLUETOOTH APP OR TWO-BUTTON REMOTE

# Schematic for connecting to a QSC Sound System

## Option 1: Q-SYS QIO-GP8x8



THE GP8X8 IS A SINKING OUTPUT. IT CONTROLS THE NEGATIVE LINE OF A LOAD (AKA PULPIT LIFT RELAY).

THE TOTAL CURRENT LIMIT OF THE GP8X8 IS 0.2A (200 mA) AT 24V DC.

EACH UP/DOWN RELAY ONLY CONSUMES 21mA (42mA TOTAL IF BOTH UP & DOWN BUTTONS WERE PUSHED SIMULTANEOUSLY).

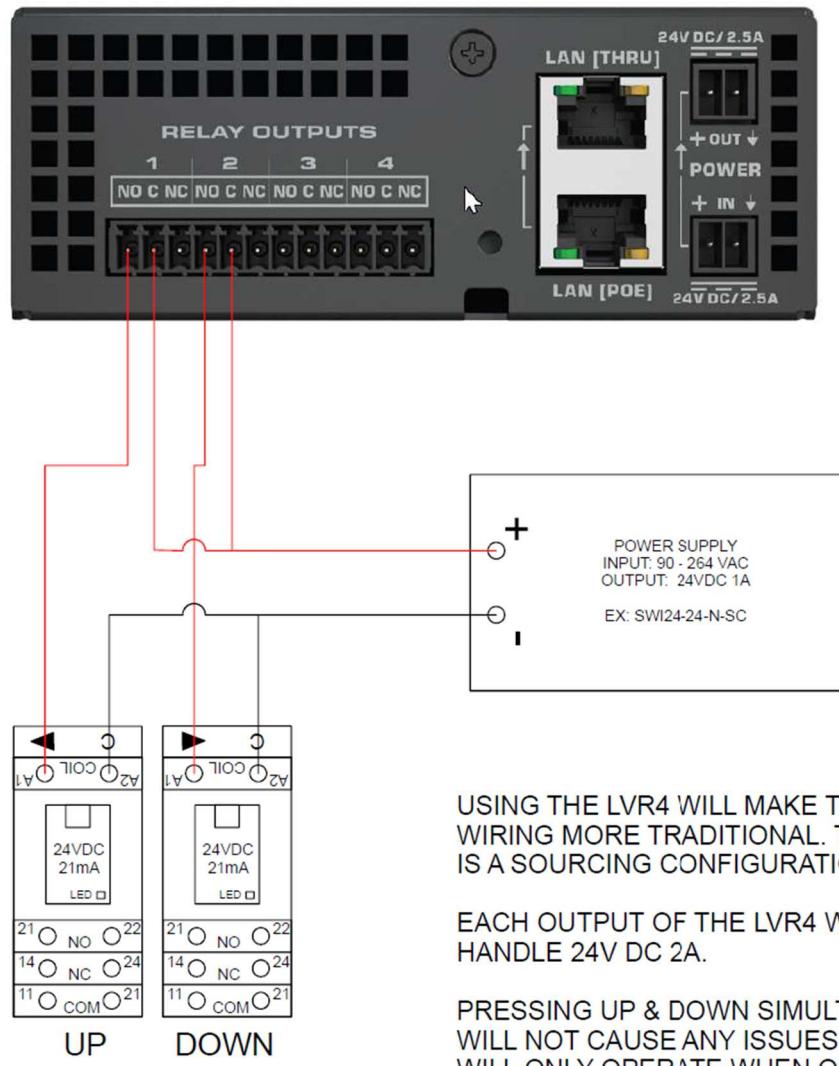
CONFIGURE OUT-1 & OUT-2 AS NORMALLY OPEN CONTACTS.

PRESSING UP & DOWN SIMULTANEOUSLY WILL NOT CAUSE ANY ISSUES. THE LIFT WILL ONLY OPERATE WHEN ONE RELAY IS ACTIVATED.

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## Option 2: Q-SYS QIO-LVR4



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