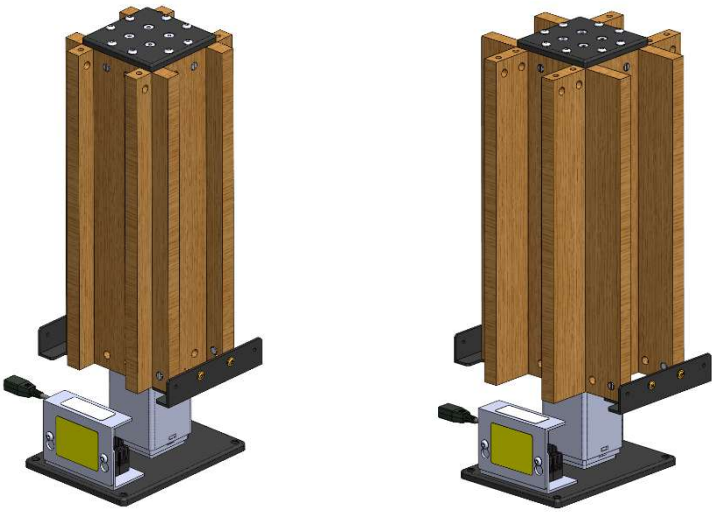
Mark Eaton LLC

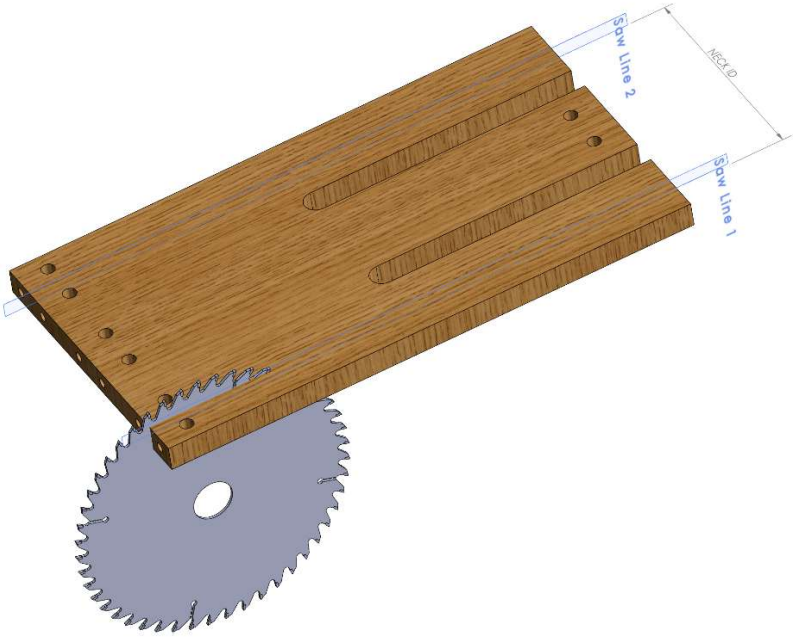
https://markeatonllc.com

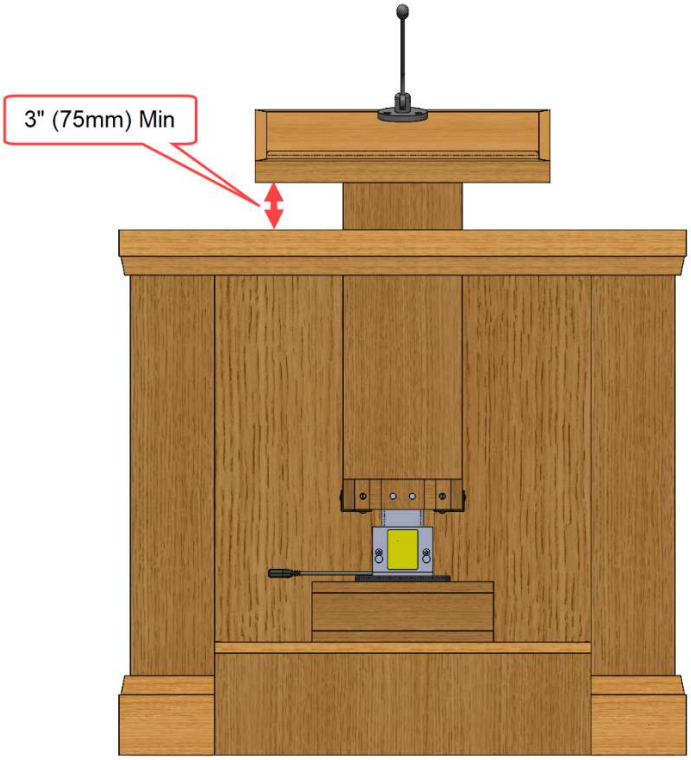
PL2022A Podium/Pulpit Lift

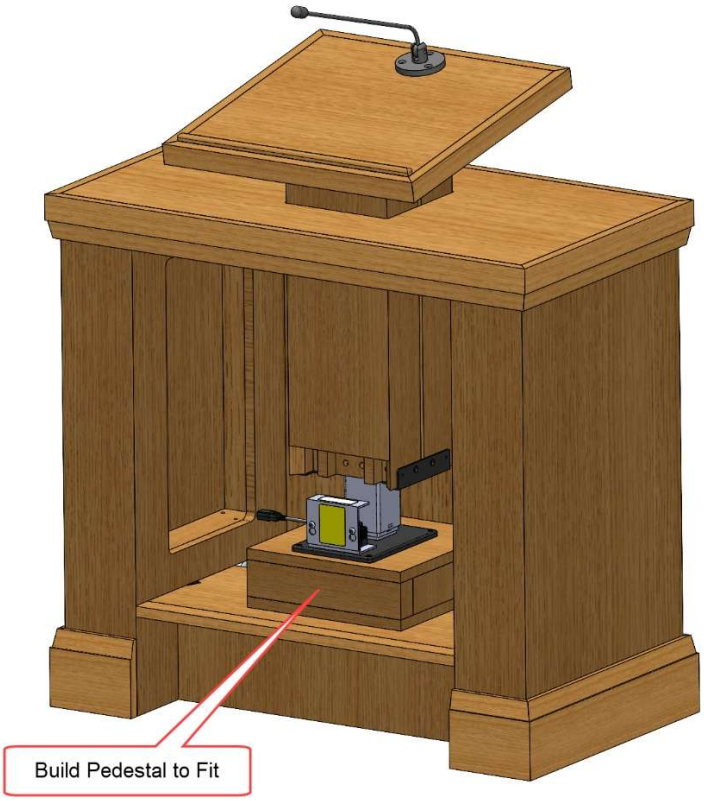


For Assembly Instructions please watch the YouTube video here: https://www.youtube.com/watch?v=UQrWDucDCjk or scan this QR Code with your cell phone or tablet.

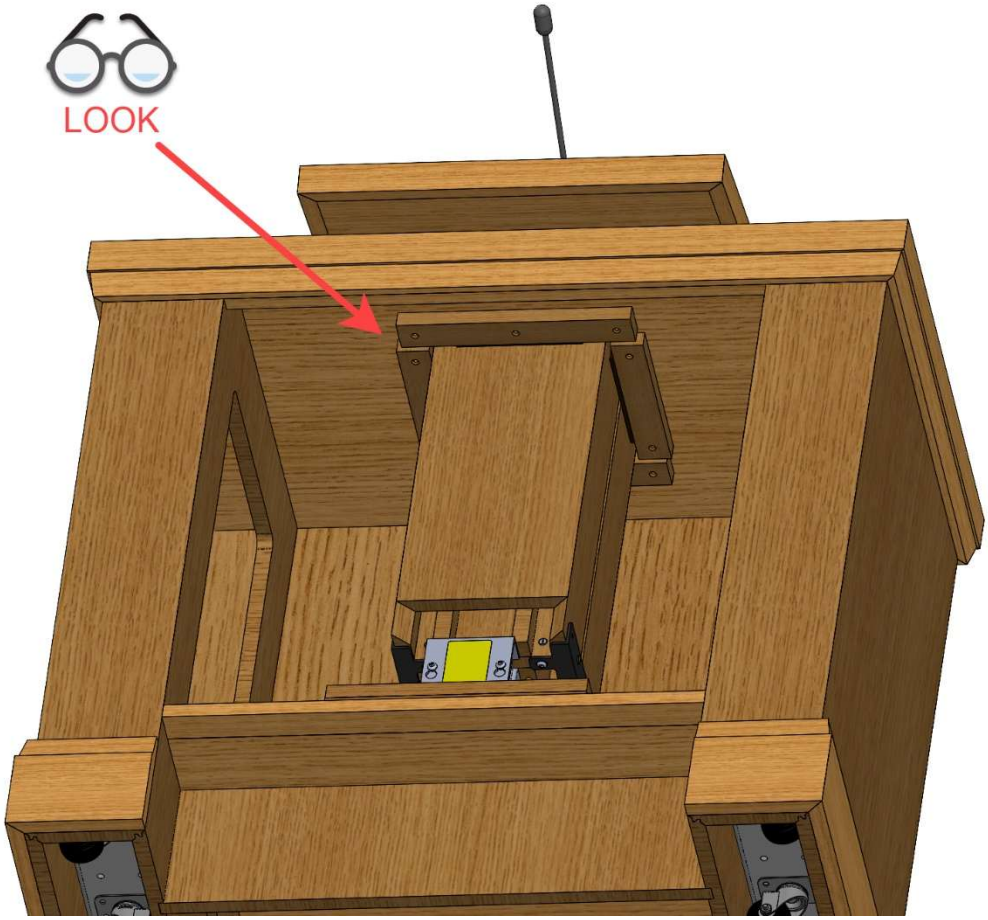
If required, cut column boards to fit neck ID prior to assembly.



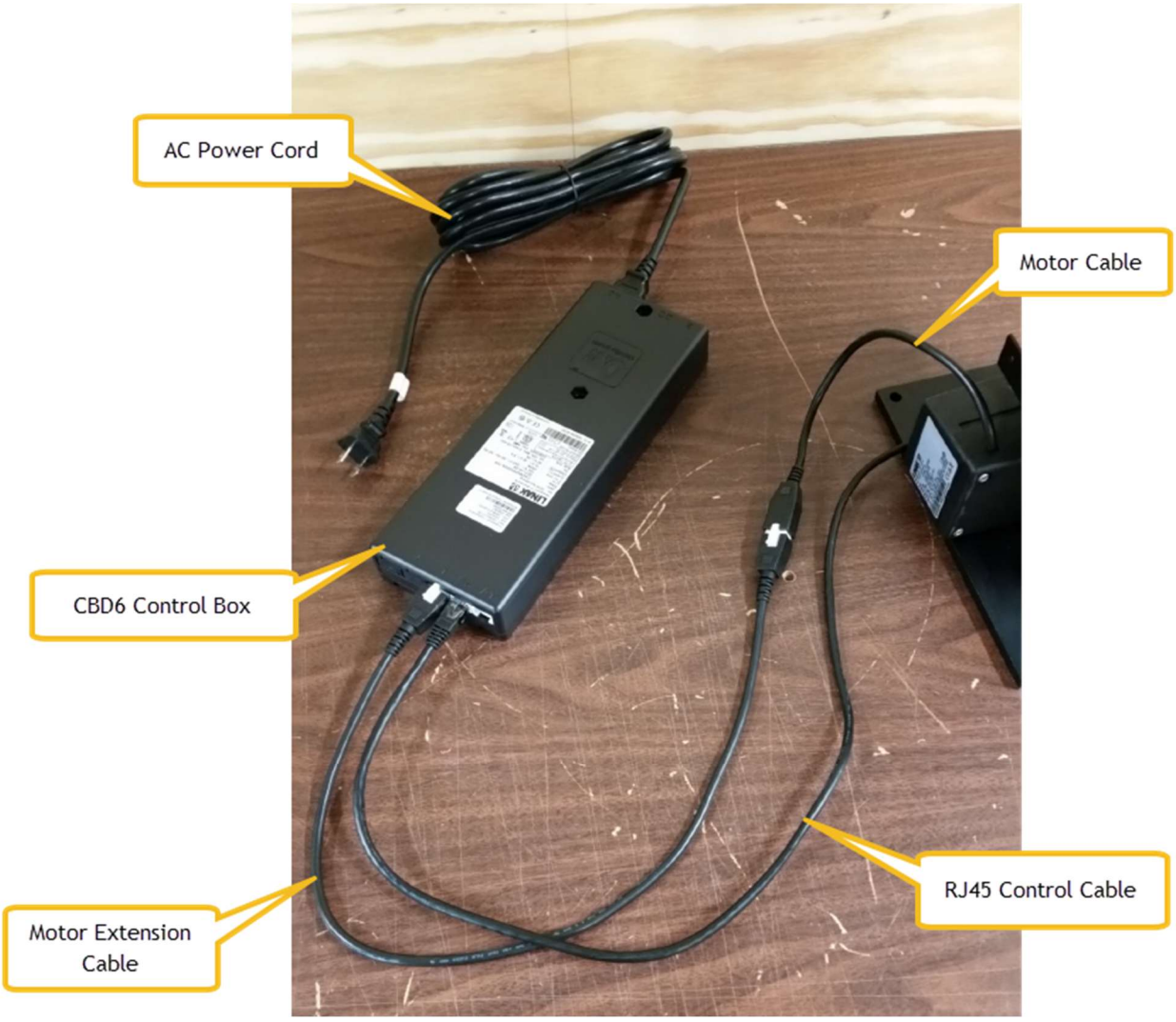




An Installation Kit is provided for your convenience. Please install as shown below.



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 referrence 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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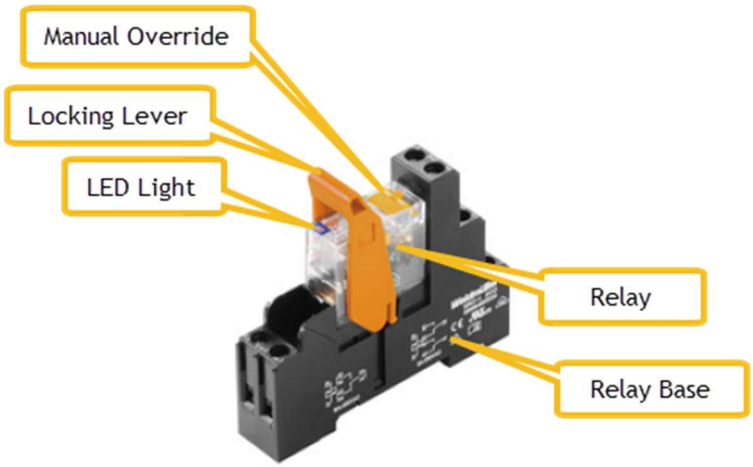
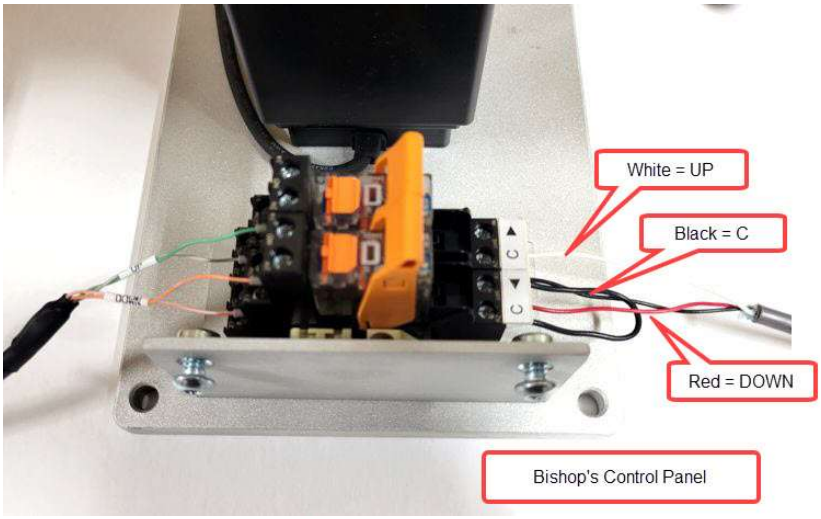
Relays for
PL2022A
Podium/Pulpit Lifts

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:





←

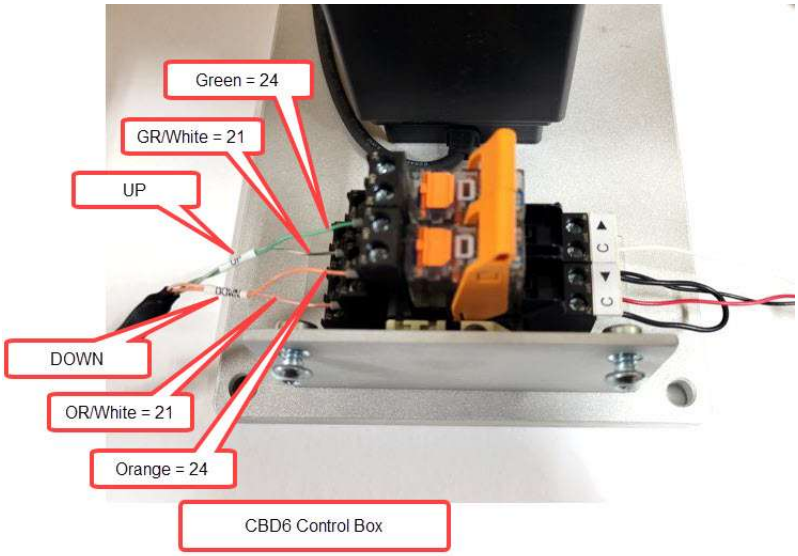
There is an LED indicator on the relay. It will be lit when the relay is under power.

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

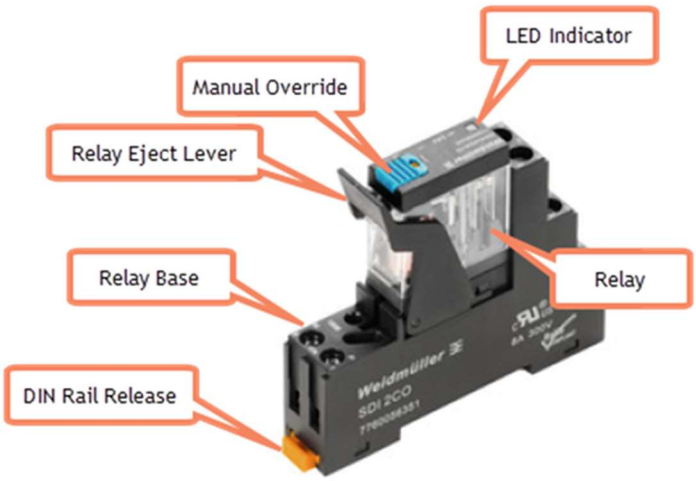
➔

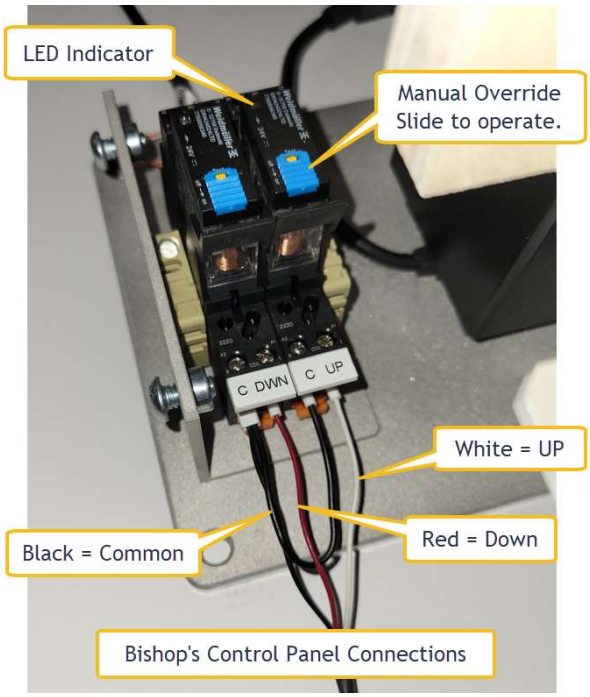
Note: the image to the right illustrates how to connect the relays to the CBD6 control box using the supplied RJ45 cable.

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:





←

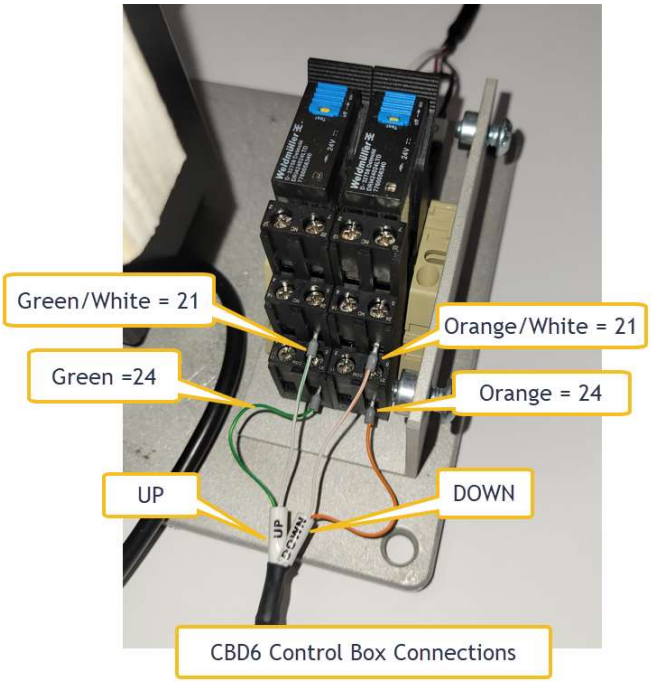
There is an LED indicator on the relay. It will be lit when the relay is under power.

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.

➔

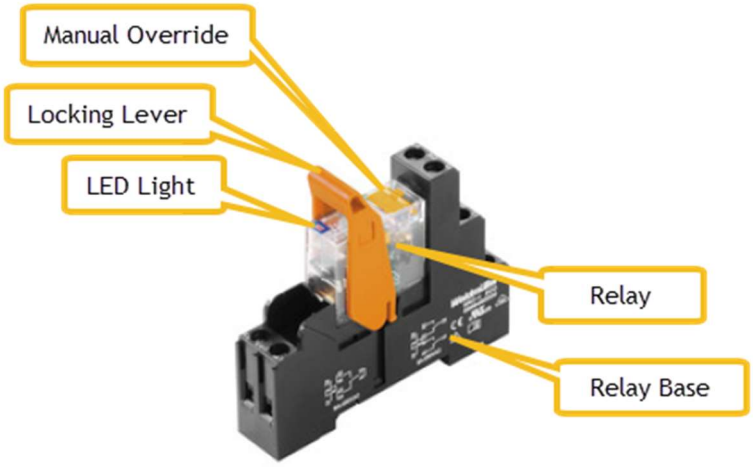
Note: the image to the right illustrates how to connect the relays to the CBD6 control box using the supplied RJ45 cable.

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):

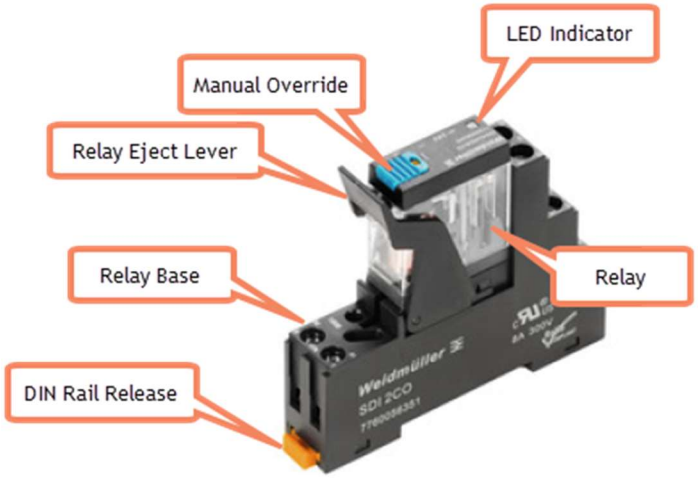
Input

Rated control voltage	24 V DC	Rated current DC	16.7 mA
Power rating	420 mW	Pull-in/drop-out voltage, typ.	16.8 V / 2.4 V DC
Coil resistance	1440 Ω ± 10 %	Status indicator	Green LED
Protective circuit	Free-wheel diode		

Connection data

Wire connection method	Screw connection	Stripping length, rated connection	8 mm
Tightening torque, min.	0.5 Nm	Tightening torque, max.	0.7 Nm
Clamping range, rated connection	2.5 mm²	Clamping range, min.	1 mm²
Clamping range, max.	2.5 mm²	Wire cross-section, solid, min.	1 mm²
Wire cross-section, solid, max.	2.5 mm²	Wire connection cross-section, finely stranded, min.	1 mm²
Wire connection cross section, finely stranded, max.	2.5 mm²	Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min.	1 mm²
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max.	2.5 mm²	Conductor cross-section, flexible, AEH (DIN 46228-1), min.	1 mm²
Conductor cross-section, flexible, AEH (DIN 46228-1), max.	2.5 mm²	Wire connection cross section, finely stranded, two clampable wires, min.	1 mm²
Wire cross-section, finely stranded, two clampable wires, max.	1.5 mm²	Blade size	size PZ1

Option 2 Datasheet:



Specs for the control relay side (coil side):

Control side

Rated control voltage	24 V DC	Rated current DC	21,8 mA
Power rating	530 mW	Pull-in/drop-out voltage, typ.	18 V / 3.6 V DC
Coil resistance	1100 Ω ± 10 %	Coil tolerance	10 %
Status indicator	Green LED	Protective circuit	Free-wheeling diode

Connection data

Wire connection method	Screw connection	Stripping length, rated connection	8 mm
Tightening torque, min.	0.5 Nm	Tightening torque, max.	0.8 Nm
Clamping range, rated connection	1.5 mm²	Clamping range, min.	0.25 mm²
Clamping range, max.	4 mm²	Wire cross-section, solid, min.	0.25 mm²
Wire cross-section, solid, max.	4 mm²	Wire connection cross section, finely stranded, min.	0.25 mm²
Wire connection cross section, finely stranded, max.	4 mm²	Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min.	0.25 mm²
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max.	4 mm²	Conductor cross-section, flexible, AEH (DIN 46228-1), min.	0.25 mm²
Conductor cross-section, flexible, AEH (DIN 46228-1), max.	4 mm²	Blade size	size PH1
Gauge to IEC 60947-1	A3		

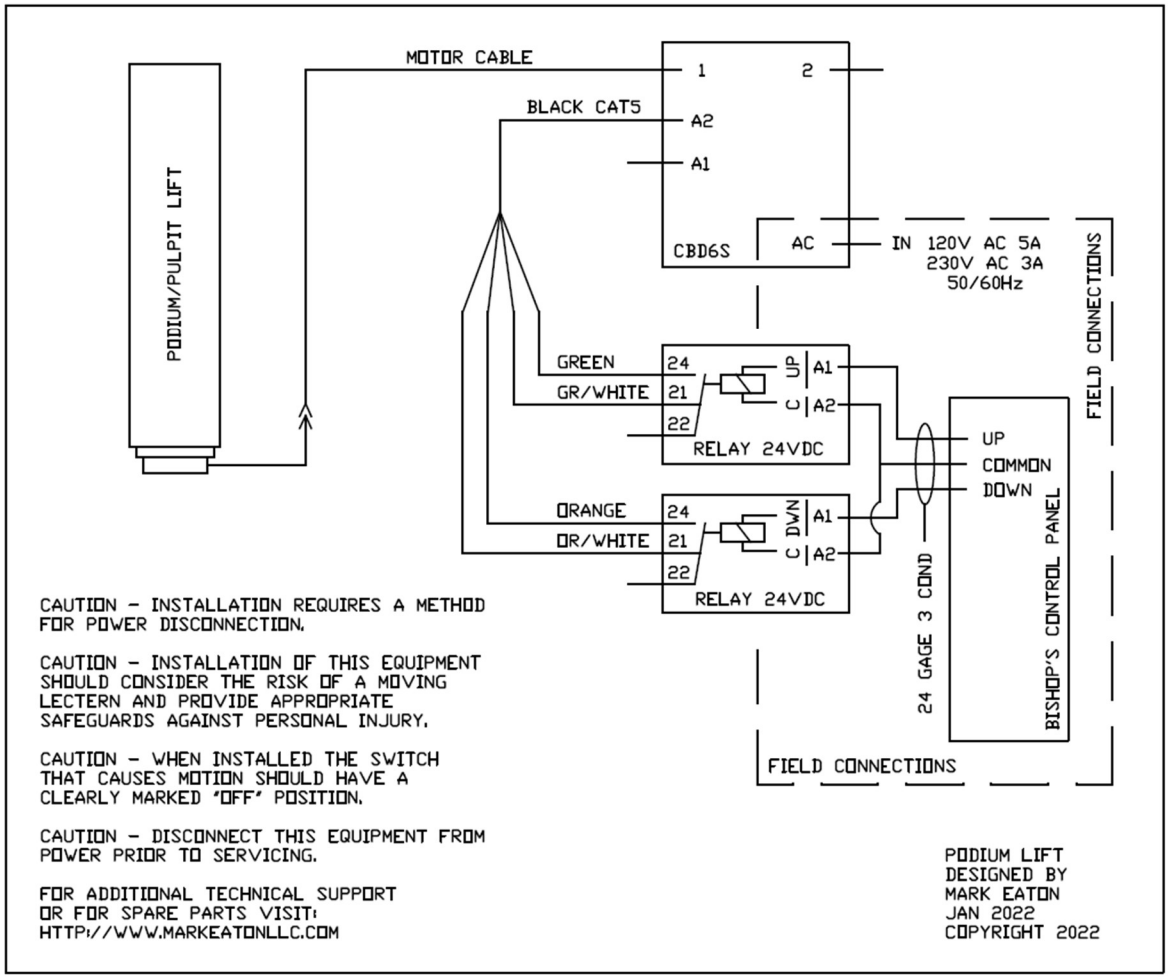
Classifications

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

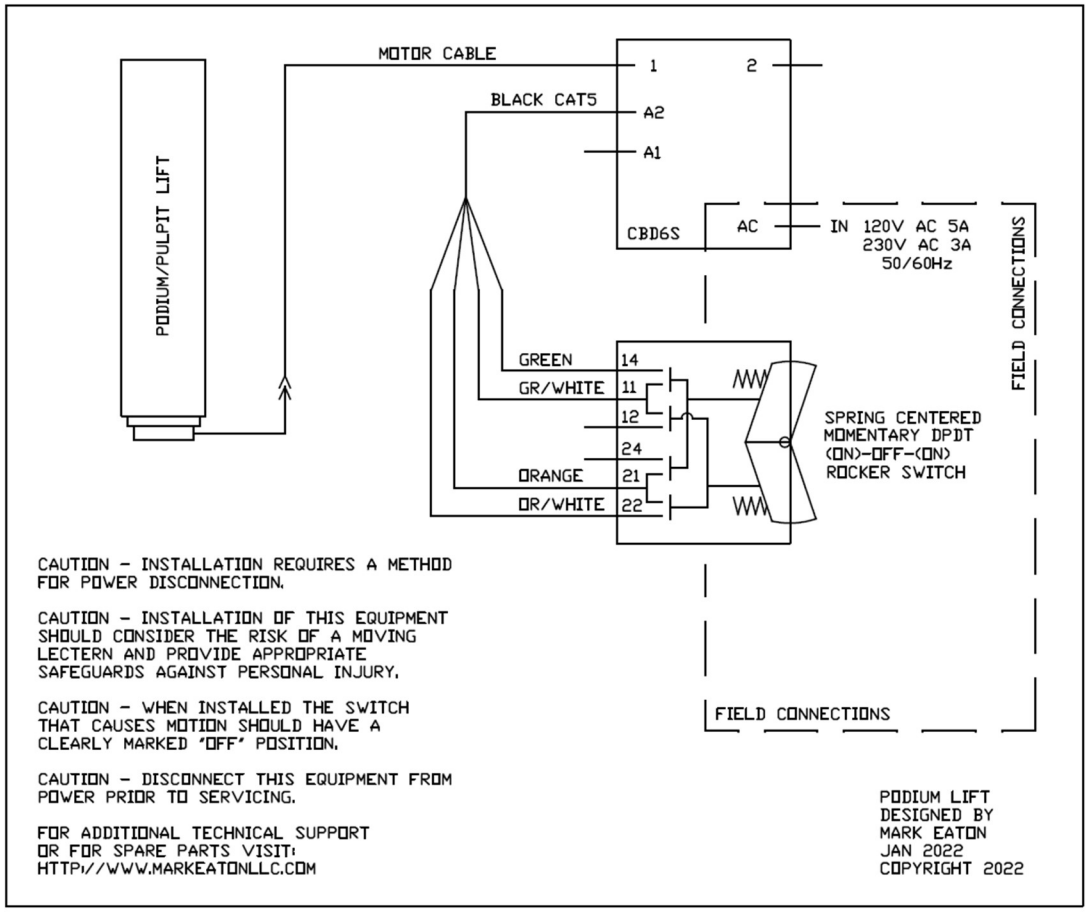


STANDARD CONNECTION WITH A IVIE SOUND SYSTEM

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

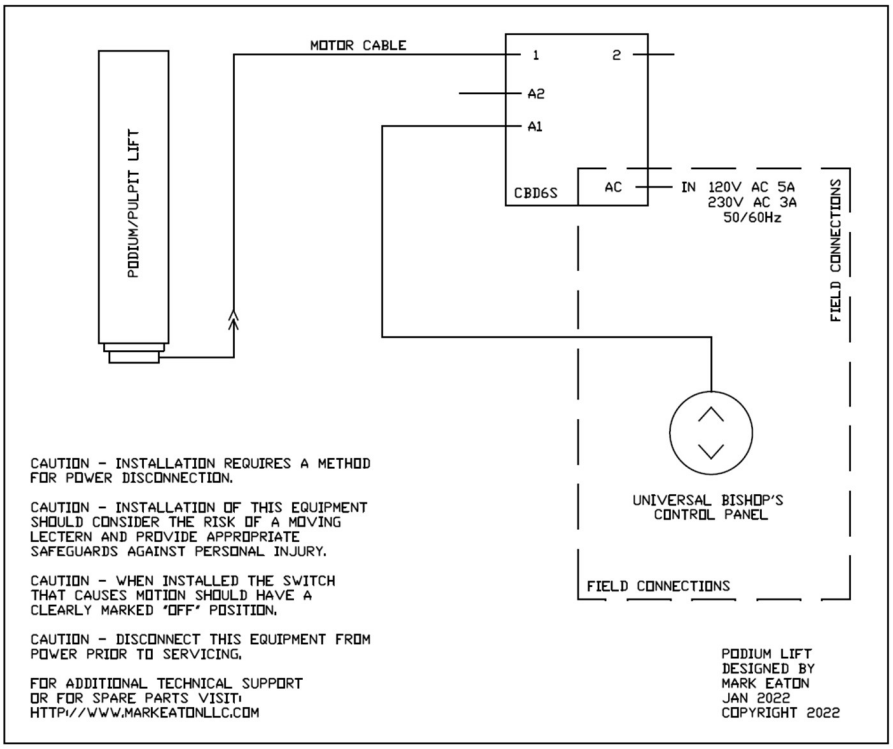
The following three options will NOT work with a soft upper limit.
Contact use if you require this type of function.

Option 1: Rocker Switch



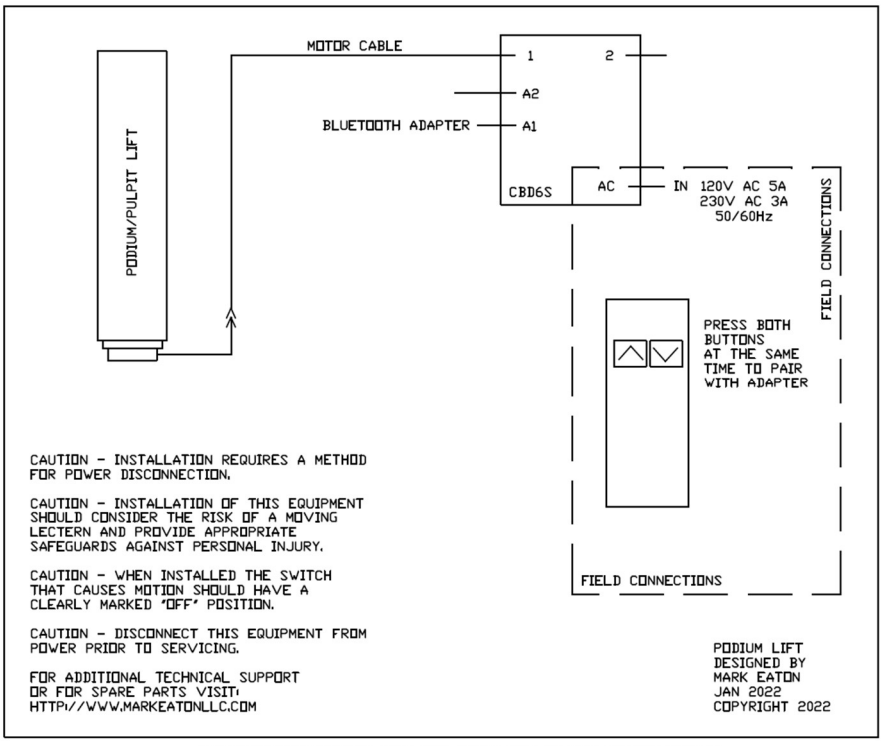
ALTERNATE CONNECTION WITH ROCKER SWITCH

Option 2: Universal Bishops' Panel



ALTERNATE CONNECTION WITH UNIVERSAL BISHOP'S CONTROL

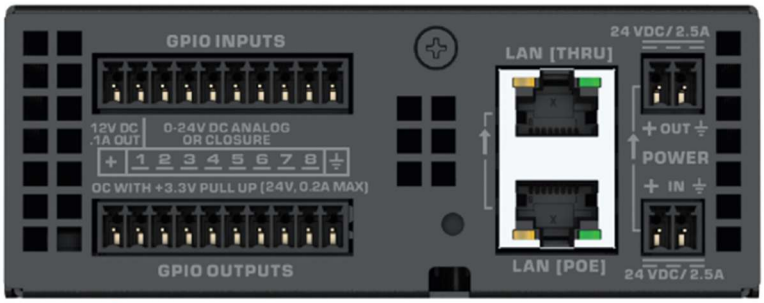
Option 3: Bluetooth Cell App Or 2-Button Remote

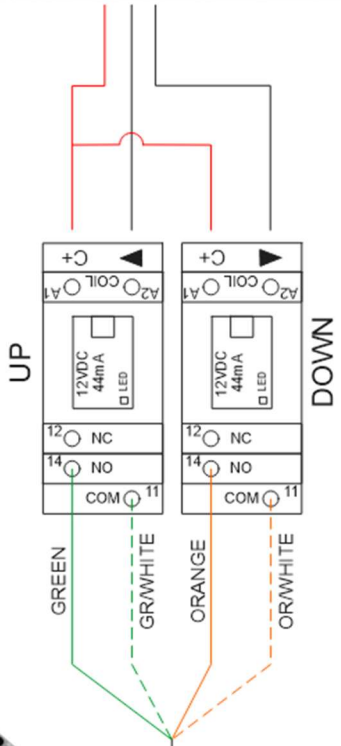


ALTERNATE CONNECTION WITH BLUETOOTH APP OR TWO-BUTTON REMOTE

QSC Sound System Schematics

Q-SYS QIO-GP8x8 (or GPOI on the Core)





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

THE TOTAL CURRENT LIMIT OF EACH PIN
ON THE GP8X8 IS 0.2A (200 mA) AT 12V DC.

EACH UP/DOWN RELAY ONLY CONSUMES
44mA (88mA TOTAL IF BOTH UP & DOWN
BUTTONS WERE PUSHED SIMULTANEOUSLY).

CONFIGURE PIN-1 & PIN-2 AS OPEN
COLLECTOR (200mA) CONTACTS IN THE QSYS
DESIGNER SOFTWARE.

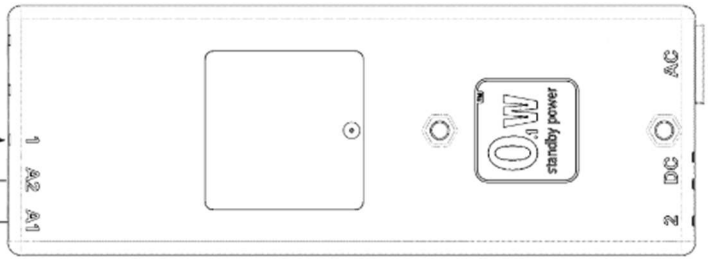
PRESSING UP & DOWN SIMULTANEOUSLY
WILL NOT CAUSE ANY ISSUES. THE LIFT
WILL ONLY OPERATE WHEN ONE RELAY IS
ACTIVATED.

SCAN THE QR CODE TO
WATCH THE VIDEO >>>

MARKEATONLLC.COM

RJ45 CABLE CONTROL CABLE

MOTOR CABLE PLUGS INTO PORT 1

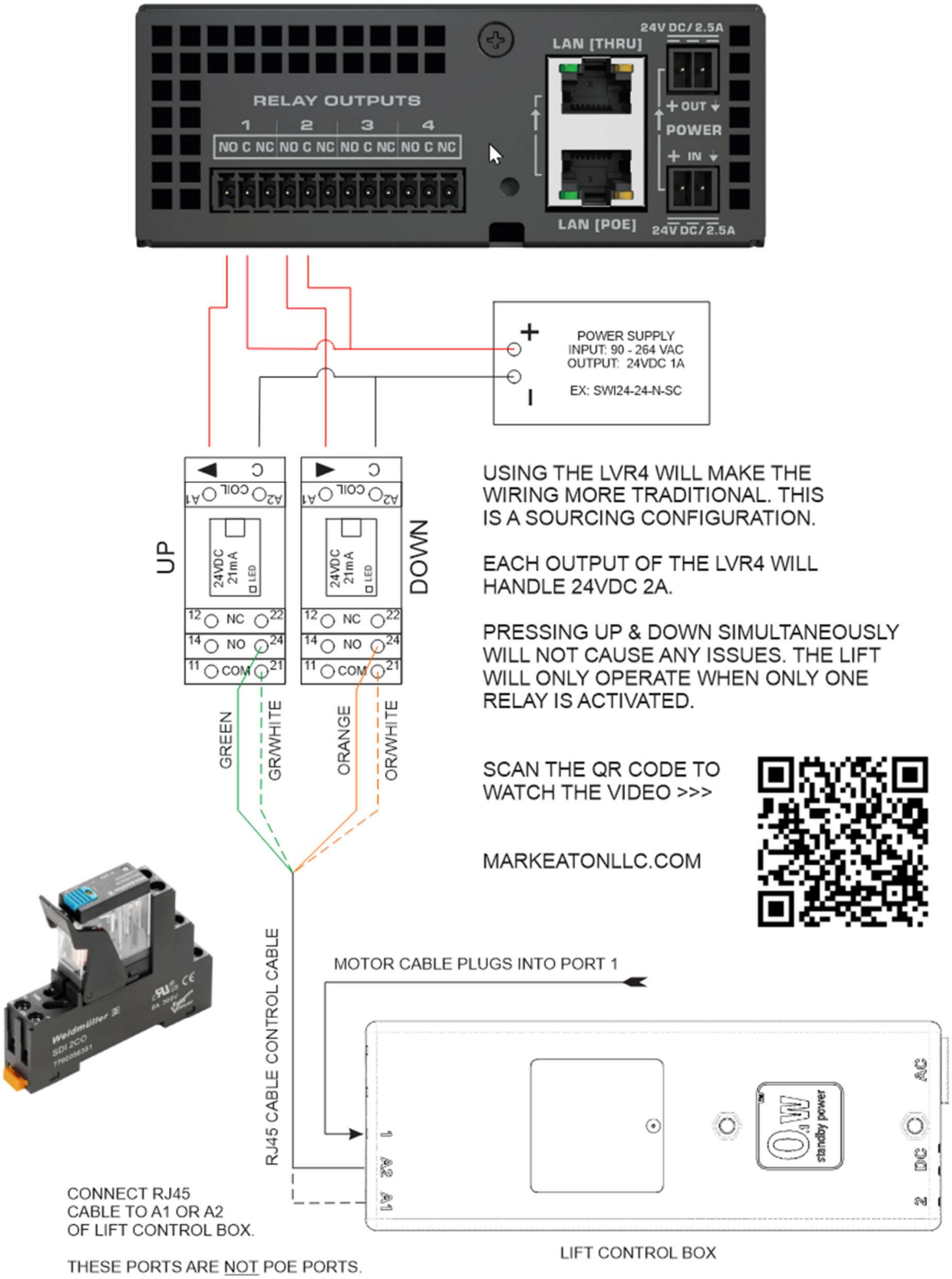


CONNECT RJ45
CABLE TO A1 OR A2
OF LIFT CONTROL BOX.

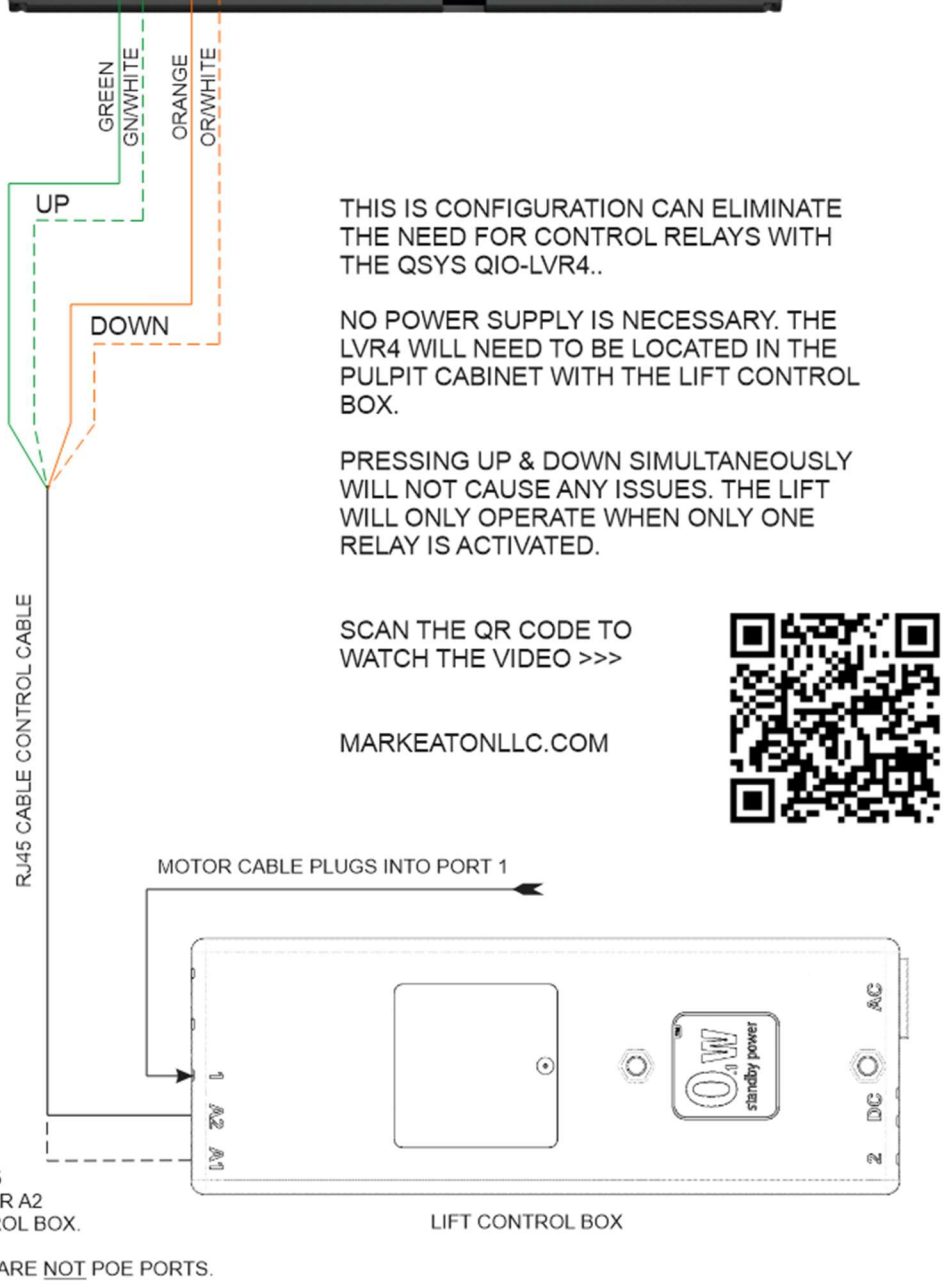
THESE PORTS ARE NOT POE PORTS.

LIFT CONTROL BOX

Q-SYS QIO-LVR4



Q-SYS QIO-LVR4 (Direct: No Power Supply)



THIS IS CONFIGURATION CAN ELIMINATE THE NEED FOR CONTROL RELAYS WITH THE QSYS QIO-LVR4..

NO POWER SUPPLY IS NECESSARY. THE LVR4 WILL NEED TO BE LOCATED IN THE PULPIT CABINET WITH THE LIFT CONTROL BOX.

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

SCAN THE QR CODE TO WATCH THE VIDEO >>>

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THESE PORTS ARE NOT POE PORTS.

Other Connection Options:

There are numerous Bluetooth/POE/POE+/POE++ I/O devices which can be used to control the Pulpit/Podium lift systems that we manufacture. Please visit MarkEatonLLC.com for other options. If you need a specific solution, please contact us at sales@markeatonllc.com.

Here is a Bluetooth dongle with a two-button remote option: