

**PCCO #061**

Hueber-Breuer Construction Co, Inc.
 148 Berwyn Ave.
 Syracuse, New York 13210
 Phone: (315) 476-7917
 Fax: (315) 476-7990

Project: 16-474 USL - 505 Walnut Ave Apartments (USL)
 505 Walnut Avenue
 Syracuse, New York 13210

Prime Contract Change Order #061: PCCO 61 Window Curtain Power & Control Wiring

TO:	Southside Genesee Associates, LLC 3 East Stow Road, Suite 260 Marlton , New Jersey 08053	FROM:	Hueber-Breuer Construction Co., Inc. 148 Berwyn Avenue, PO Box 515 Syracuse New York 13205
DATE:	3/ 16 /2018	CREATED BY:	Lisa Weaver (Hueber-Breuer Construction Co., Inc.)
SCHEDULE IMPACT:		EXECUTED:	No
CONTRACT FOR:	1:505 Walnut Ave (USL) Prime Contract	TOTAL AMOUNT:	\$ 10,203.87

DESCRIPTION:CE #095 - Window Curtain Power & Control Wiring

Window Curtain Power and Control Wiring

Reference Huen New York quotation dated 3/6/18 (10 pages)

Included:

Installation and wiring of (2) keypads

Installation and wiring of (2) controllers

Installation of approximately 1560' of 18/4 cable from controllers to curtain motors

Mounting of (5) junction boxes and (9) motor connections

Providing (1) dedicated circuit to serve both controllers from Panel LP-13

Labor to assist with startup

9,955.00 Huen

248.87 HB Fee

10,203.87 Change Order Amount

ATTACHMENTS:[PCCO#61 Backup Window Curtain Power and Control Wiring.pdf](#)

The original (Contract Sum)	\$ 34,846,056.00
Net change by previously authorized Change Orders	\$ 654,498.72
The contract sum prior to this Change Order was	\$ 35,500,554.72
The contract sum would be changed by this Change Order in the amount of	\$ 10,203.87
The new contract sum including this Change Order will be	\$ 35,510,758.59
The contract time will by this Change Order by	

David McHenry, Erdy McHenry
Architecture, LLC

Southside Genesee Associates, LLC
 3 East Stow Road, Suite 260
 Marlton New Jersey 08053

Hueber-Breuer Construction Co., Inc.
 148 Berwyn Avenue, PO Box 515
 Syracuse New York 13205

DocuSigned by:

David McHenry

4/13/2018

DC71C321A3F64E7

SIGNATURE**DATE**

DocuSigned by:

Michael Cassarino

4/2/2018

4ACCC0916448441...

SIGNATURE**DATE**

DocuSigned by:

Derek Heath

3/16/2018

43730E56A40A4C4...

SIGNATURE**DATE**

Huen New York Inc.

6695 Old Collamer Rd.
East Syracuse, New York 13057
Phone: 315-432-5060
Fax: 315-432-5063
Contact: Barry Costello
E-mail: bcostello@huenelectric.com



Hueber Breuer Construction

Contact: Derek Heath
E-mail: dheath@hueber-breuer.com
148 Berwyn Ave.
Syracuse, NY 13220

PCO **30**
Date: 3/6/2018
Project Name: USL 505 Walnut
Page Number: 1

PROPOSED CHANGE ORDER

Work Description

Huen New York, Inc is pleased to provide a quote for work required by the following:
Window Curtain Power and Control Wiring

Per email 2/12/18 from Derek Heath
For your convenience, labor and material breakdown sheets have been included.

Included:

Installation and wiring of (2) keypads
Installation and wiring of (2) controllers
Installation of approximately 1560' of 18/4 cable from controllers to curtain motors is included
Mounting of (5) Junction boxes and (9) motor connections is included
Providing (1) dedicated circuit to serve both controllers from Panel LP-13 is included
Labor to assist with startup is included

Excluded:

All Curtain and control equipment is provided by others
All dipswitch setting and all other controller related programming is by others.
Motore lead male and female connectors are required and provided by others
Installation of Curtains and Curtain motors is by others
Cost associated with lifts or use of scaffolding are not included and if required all coat associated is the responsibility of Hueber Breuer
Overtime or shiftwork is not included.
Cost for added equipment other than it what shown on the email is not included
Dry contact connection for automation is not included
Optional receiver control and programming remote is not included
Daylight harvesting interface is not shown or included.

Please issue a formal change order if you would like us to proceed with this work.

This quotation is based on the following terms and conditions:

1. Extension of time required for this change is 5 days.
2. In order to maintain this firm price, we must have approval within 10 calendar days.
3. If an extension of time is denied or if a response is not received in time, this quotation will be adjusted.

Summary

MATERIAL

General Materials

1,337.75

PROPOSED CHANGE ORDER

Huen New York Inc. 6695 Old Collamer Rd. East Syracuse, New York 13057	Hueber Breuer Construction 148 Berwyn Ave. Syracuse, NY 13220	PCO Date: Project Name: Page Number:	30 3/6/2018 USL 505 Walnut 2
---	--	---	--

Summary (Cont'd)			
Material Total			1,337.75
LABOR			
Foreman	(16.62 Hrs @ \$81.58)		1,355.86
Journeyman	(83.08 Hrs @ \$76.51)		6,356.45
Total Labor			7,712.31
Total Material & Labor			9,050.06
Overhead	(@ 10.000 %)		905.01
Total Markups			905.01
Our Cost			9,955.00

Signature: _____

PROPOSED CHANGE ORDER

PCO **30**
 Date: 3/6/2018
 Project Name: USL 505 Walnut
 Project Number: 1317
 Page Number: 1

Itemized Breakdown

Description	Qty	Net Price U	Total Mat.	Labor U	Total Hrs.
1/2" CONDUIT - EMT	50	39.34 C	19.67	5.04 C	2.52
3/4" CONDUIT - EMT	30	61.62 C	18.49	6.12 C	1.84
1/2" CONN SS STL - EMT	4	12.20 C	0.49	5.76 C	0.23
3/4" CONN SS STL - EMT	6	19.86 C	1.19	7.20 C	0.43
1/2" COUPLING SS STL - EMT	5	16.19 C	0.81	2.88 C	0.14
3/4" COUPLING SS STL - EMT	3	24.42 C	0.73	3.60 C	0.11
3/4" BUSHING - PLASTIC	6	65.99 C	3.96	3.00 C	0.18
1/2 OR 3/4" CONDUIT SNAP CLOSE CLIP W/ 1/4-20	5	49.45 C	2.47	8.56 C	0.43
1/2 OR 3/4" SNAP CLOSE CLIP - SIDE MNT TO MTL	6	169.26 C	10.16	10.80 C	0.65
1/2 OR 3/4" CONDUIT+BOX SUPPORT W/ 9/32" MNT	2	464.05 C	9.28	11.70 C	0.23
1/2" FLEX - ALUMINUM	18	52.32 C	9.42	2.54 C	0.46
1/2" CONN FLEX DC SQUEEZE STRAIGHT	18	95.38 C	17.17	7.20 C	1.30
#12 THHN BLACK	165	135.62 M	22.38	6.42 M	1.06
#18/4C CL2 JKT T-STAT CBL	1,560	394.52 M	615.45	9.90 M	15.44
1 5/16" LOOP CBL SUPPORT	45	259.27 C	116.67	7.50 C	3.38
LONG ANGLED HNGR BRKT	45	163.15 C	73.42	9.00 C	4.05
WIRE CONN RED	6	16.70 C	1.00	9.00 C	0.54
LABEL - CABLE	12	0.92 C	0.11	4.50 C	0.54
TERM - EQUIP RM 4 PR (DATA)	6	6.61 E	39.66	0.11 E	0.65
CABLE TEST - 4 PR (DATA)	6	0.00 E	0.00	0.30 E	1.80
4x 1 1/2" SQ BOX COMB KO	2	140.96 C	2.82	34.50 C	0.69
4x 1 1/2" SQ BOX COMB KO W/ FLUSH MTL STUD B	3	1,039.27 C	31.18	34.50 C	1.03
4" SQ 1G PLSTR RING 5/8" RISE	3	455.01 C	13.65	3.76 C	0.11
4" SQ BLANK COVER	2	265.10 C	5.30	3.76 C	0.08
4 11/16x 2 1/8" SQ BOX COMB KO	5	1,326.40 C	66.32	37.50 C	1.88
4 11/16" SQ 2G PLSTR RING 5/8" RISE	5	1,562.64 C	78.13	3.76 C	0.19
1/4-20 MACHINE SCREW ANCHOR	12	26.90 C	3.23	12.00 M	0.14
1/4" THREADED ROD - PLTD	37	44.30 C	16.39	3.76 C	1.39
1/4-20 HEX NUT - PLTD STL	19	2.89 C	0.55	3.00 C	0.57
1/4" FLAT WASHER - PLTD STL	10	2.69 C	0.27	1.50 C	0.15
1/4-20x 3/8 P/H SLOT/PHILLIPS MACHINE SCREW	45	3.51 C	1.58	4.36 C	1.96
#8x 1/2 WAFER HEAD SELF-TAP STUD SCREW - 1	4	3.00 C	0.12	3.60 C	0.14
7.31" Lx 0.184" W - 1.750" BUNDLE NYLON CABLE	60	19.64 C	11.78	7.50 C	4.50
#8x 1/2 WAFER HEAD SHEET MTL SCREW	12	5.56 C	0.67	2.26 C	0.27
UNIV NAIL 3.7x27mm W/ 8mm PLAS WSHR - STL/C	45	28.75 C	12.94	6.00 C	2.70
#3 BOOSTER .27 CALIBER - SHORT 10xMAG	45	28.75 C	12.94	6.00 C	2.70

ORIGINAL

PROPOSED CHANGE ORDER

PCO 30
Date: 3/6/2018
Project Name: USL 505 Walnut
Project Number: 1317
Page Number: 2

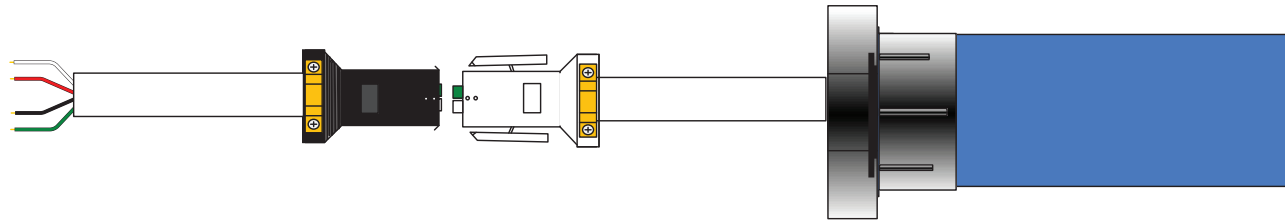
Description	Qty	Net Price U	Total Mat.	Labor U	Total Hrs.
2G BLANK-BOX MNT PLATE - PLASTIC IVY	5	507.19 C	25.36	6.76 C	0.34
1" DIAM CORE 6" THICK FLOOR	2	28.75 E	57.50	2.00 E	4.01
FIRESTOP COMPOUND CAULK TUBE	2	17.25 E	34.50	1.00 E	1.99
KEYPAD	2	0.00 E	0.00	0.65 E	1.30
CURTAIN CONTROLLER	2	0.00 E	0.00	2.00 E	4.01
MOTOR CONNECTION	9	0.00 E	0.00	1.00 E	8.96
LAYOUT	2	0.00 E	0.00	2.00 E	4.01
STARTUP/TEST	1	0.00 E	0.00	4.00 E	4.00
Totals	2,332		1,337.75		83.08

Quick Disconnect

Motor Lead Specifications

- Anderson male plug (white) installed on the motor side with an 18" motor lead
- Anderson female plug (black) installed on the J-Box side with an 8.5' cable

white = neutral
red = directional 1 (hot)
black = directional 2 (hot)
green = ground

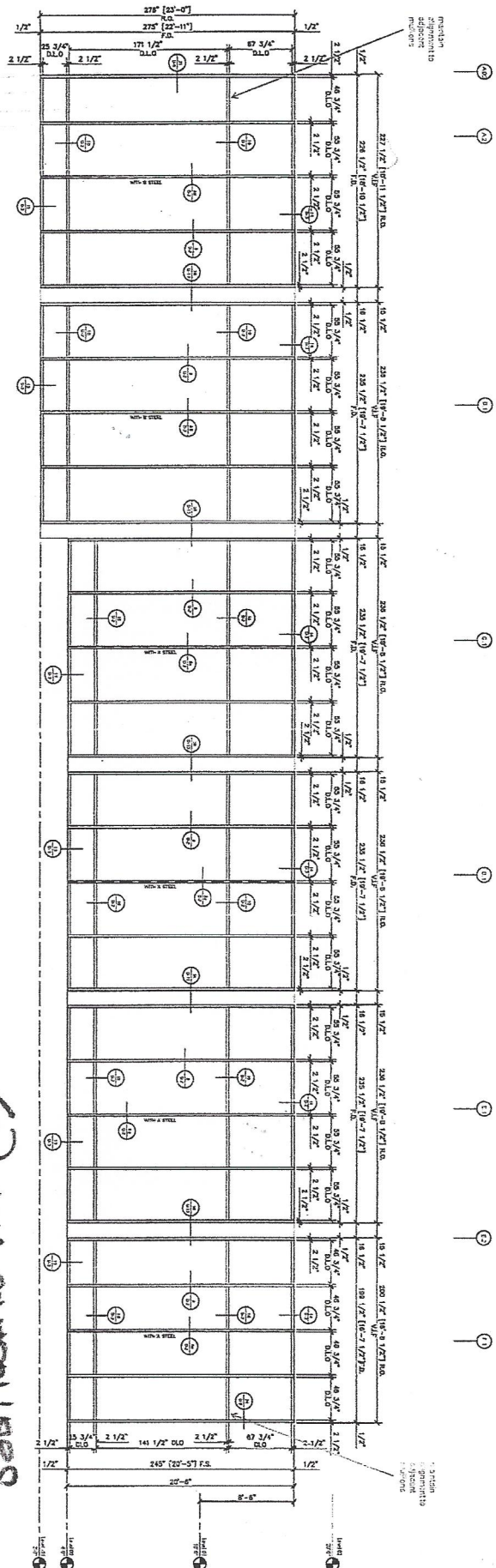


18" White SJTW AWG 18 delivered on motor (4 wire)

NOTE:

Anderson female plug will be preshipped if requested. Custom lengths available upon request.

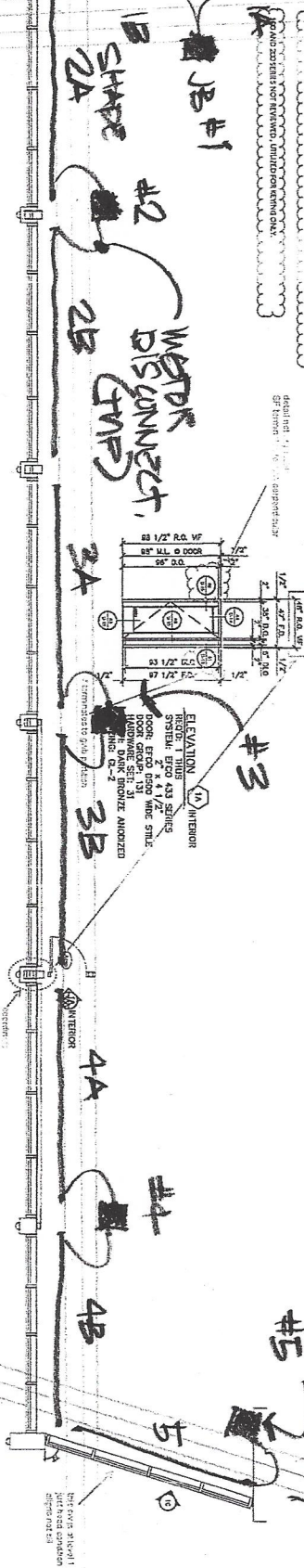
Anderson male plug cannot be modified due to UL requirements.



ELEVATION (1A)
 FLOOR 1 THIS
 SYSTEM: EPD 5-2000 DURA-CASE PP
 FINISH: DARK BRONZE ANODIZED
 GLASSING: GL-1

NEED (2) 4N1 CONTROLLERS

NOTES:
 1. ALL DIMENSIONS ARE IN FEET AND INCHES.
 2. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED.
 3. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED.
 4. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED.
 5. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED.
 6. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED.
 7. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED.
 8. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED.
 9. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED.
 10. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED.



565 WALNUT

N.T.S. — 2.9.18.

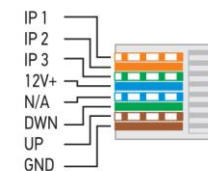
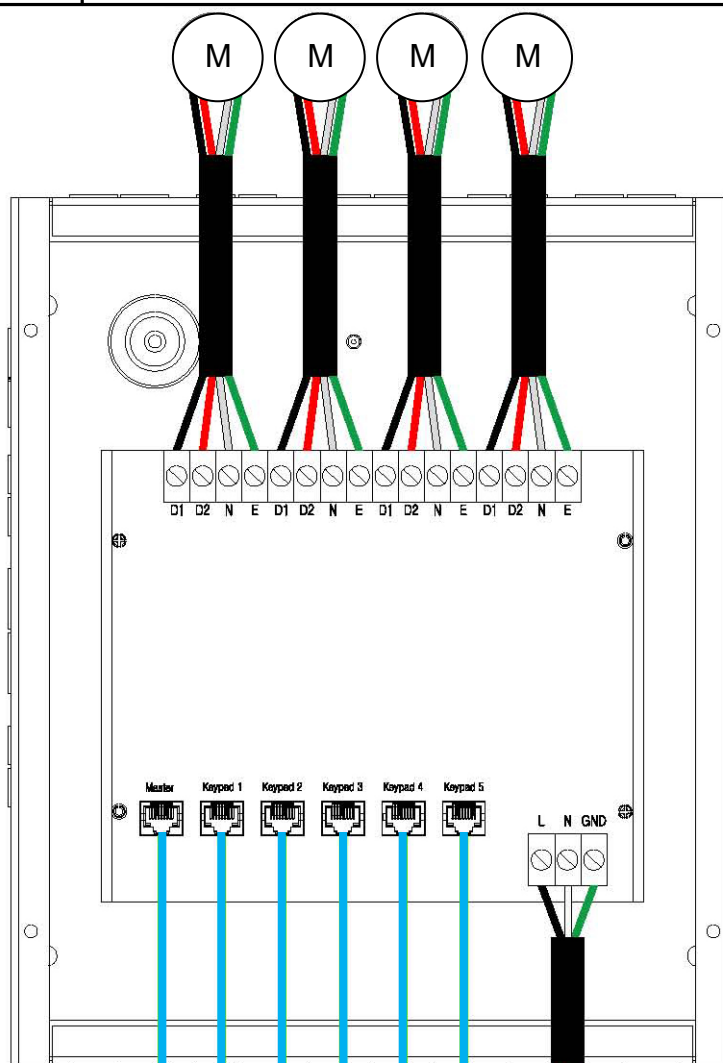
PROJECT: 565 WALNUT AVENUE SYRACUSE, NY 13208	ARCHITECT: EASY ARCHITECTURE, LLC 1410 BROADWAY AVENUE, SUITE 200 SYRACUSE, NY 13208	CONSTRUCTION MANAGER: HENDERSON CONSTRUCTION CO., INC. 1410 BROADWAY AVENUE, SUITE 200 SYRACUSE, NY 13208	DATE: 2.9.18	SCALE: N.T.S.	DRAWN BY: J. W. WILSON	PROJECT MANAGER: J. W. WILSON	CHECKED BY: J. W. WILSON	DATE: 2.9.18	SCALE: N.T.S.	DRAWN BY: J. W. WILSON	PROJECT MANAGER: J. W. WILSON	CHECKED BY: J. W. WILSON	DATE: 2.9.18	SCALE: N.T.S.	DRAWN BY: J. W. WILSON	PROJECT MANAGER: J. W. WILSON	CHECKED BY: J. W. WILSON	DATE: 2.9.18
---	---	--	-----------------	------------------	---------------------------	----------------------------------	-----------------------------	-----------------	------------------	---------------------------	----------------------------------	-----------------------------	-----------------	------------------	---------------------------	----------------------------------	-----------------------------	-----------------

IGC 4n1 Motor
Motor Controller

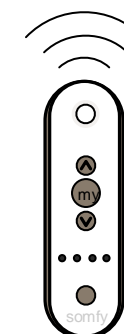
Dry Contact Keypad Connections CAT 5e

Hot(Direction 1)
Hot(Direction 2)
Neutral
Ground

CAT 5e Pinout

To Next IGC 4n1
ControllerDRY CONTRACT CONNECTION VIA
AUTOMATIONOPTIONAL
CONTROLIGC RTS
RECEIVEROPTIONAL
CONTROL

HunterDouglas
Architectural

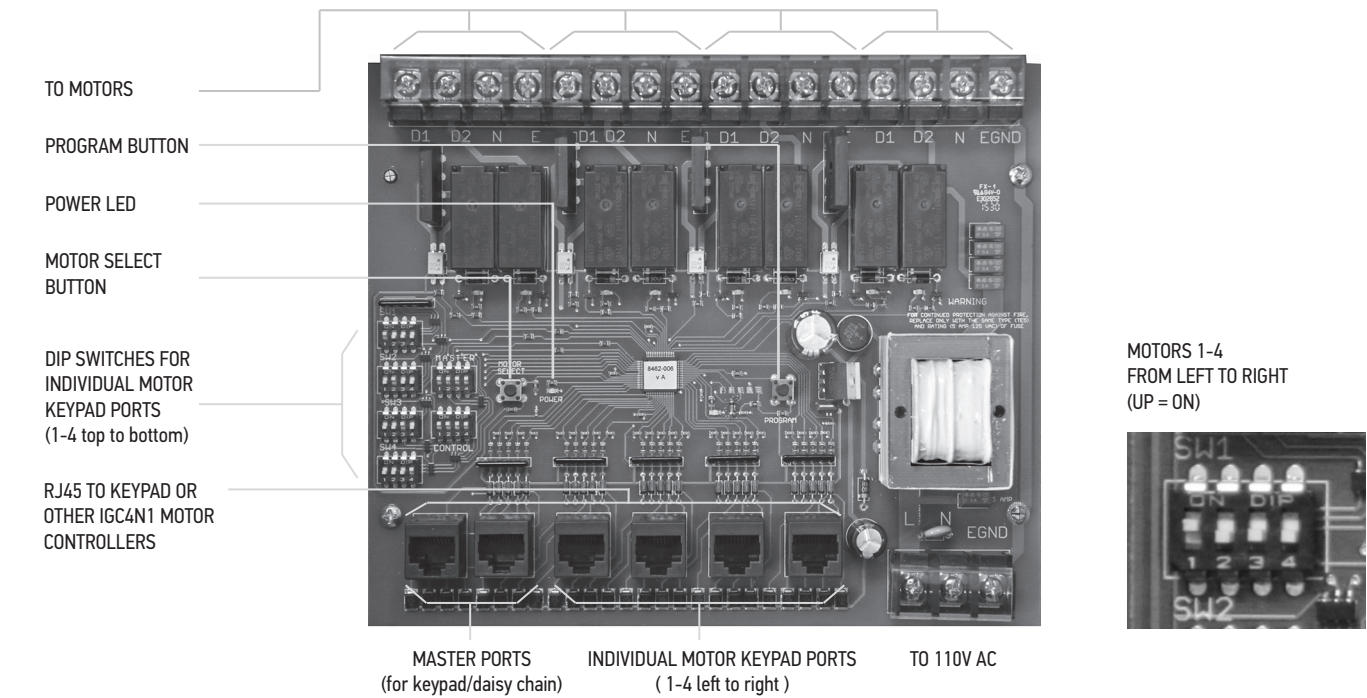
DRY CONTACT KEYPAD PROVIDES DEFAULT
INTERMEDIATE PRESETS 25%,50% AND 75%

IGC 4N1 MOTOR CONTROLLER

Installation and Operating Instructions

IGC4N1 Motor Controller (4 motors)
Part No. 1811416

Connections and Indicators

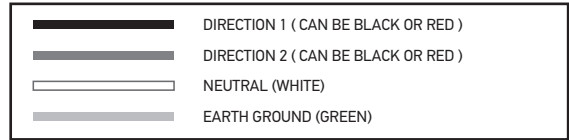
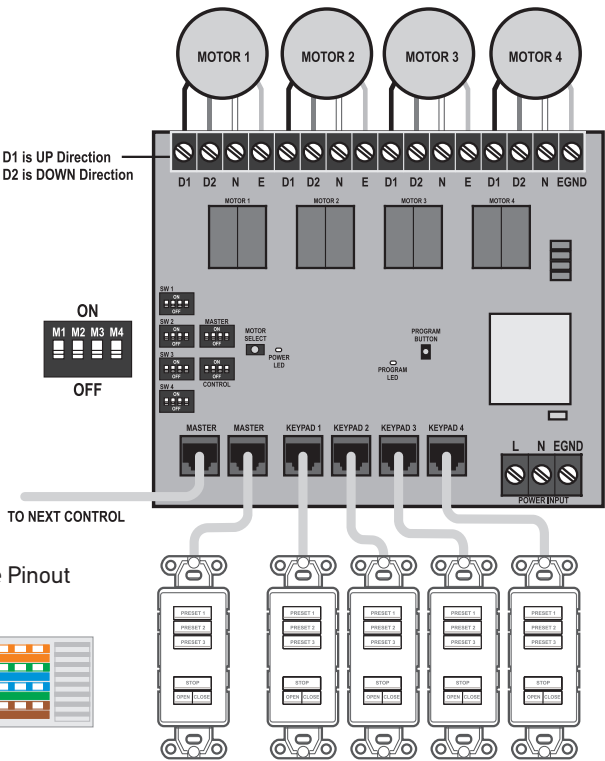


Initial Setup

NOTE: Before installing the IGC 4n1, all motors must be operating properly with their limits set. Please note that maximum direction run time is 3 minutes.

Wiring Instructions

1. Connect power and motors to the board (following wiring diagram at right). Only 1 motor per terminal.
2. When motors are properly wired and power is applied to the board, the POWER LED will illuminate solid green and the motors will move to their upper limit.
 - a. NOTE: if motors move to the lower limit, the wires are reversed. Disconnect power from the board and reverse the wires from the motor(s) moving in the wrong direction.



Set Keypad Group Control

NOTE: motors must be stopped before setting keypad groups.

1. Set the DIP switches to the corresponding keypad inputs by moving them up to the "ON" position.
 - a. NOTE: There is a single dip switch that configures both Master Ports.
2. Once settings have been chosen, press and hold the MOTOR SELECT button until the POWER LED turns off, then release. The POWER LED will illuminate solid green.

Setting Default Motor Intermediate Positions

NOTE: motors must be stopped before setting intermediate positions.

1. Press and hold the PROGRAM button until the PROGRAM LED illuminates solid green, then release.
2. Connected motors will move first to the upper limit, then to the lower limit and back to the upper limit. Once programming is complete the PROGRAM LED will turn off. Default intermediate positions (25%, 50%, 75%) are now set.
3. Connect keypad(s) to inputs using appropriate Cat5e cable (not included).
4. Confirm operation by pressing each preset button on the keypad(s).
 - a. NOTE: The STOP button on the keypad activates when the button is released. If the STOP button is pressed and released when the motor is stopped, the shade will move to intermediate position 2.
 - b. NOTE: If power is lost or turned off, all shades will move to their upper limit when power is reapplied.

Setting Custom Intermediate Positions

1. Complete "Setting Default Motor Intermediate Positions" steps.
2. Using the keypad connected to the motor(s) you wish to control, using the UP and DOWN buttons, adjust the window covering to the desired new intermediate position.
3. Press and hold the preset button you wish to reprogram with the new intermediate position until the motor(s) jogs.
 - a. NOTE: If a motor with custom intermediate position needs to be replaced, all motor(s) custom intermediate positions will be reset.

Daisy-Chaining Multiple Controllers

1. All controllers must have their limits fully set.
2. Configure the Master DIP switches to control desired motor(s).
3. Connect open Master Port to an empty Master Port on next IGC 4n1.

ELS-G2/5

(1) PULL STATION

(1) DIMMING STATION

(2) SHAD
CONTROL Key pads

A100

LP-13

L11

(2) CONTROLLER

GROUND LEVEL

Room
A001
Supplies

X1

L