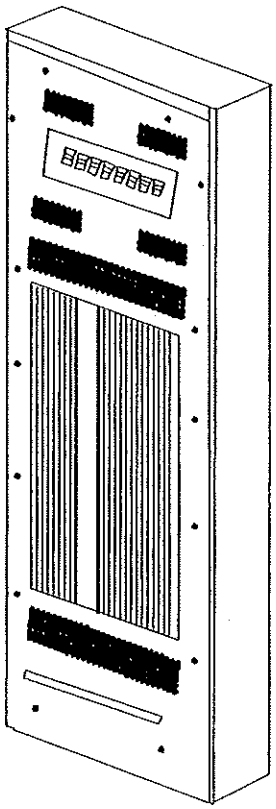
MVP 6/12 Pak Dimmer



Installation Guide

Electronics Diversified, Inc.

MVP 6/12 Pak Dimmer

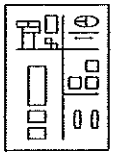
INSTALLATION GUIDE

Thank you for purchasing one of the MVP 6/12 Pak Dimmers. This unit is designed with the contractor in mind. Multiple contractor entry points plus simple layout of electrical components make installation easy. It is recommended that the installation guide is read before installation of the unit. If there are any questions, we can be reached at 1-800-547-2690 or at www.edionline.com.

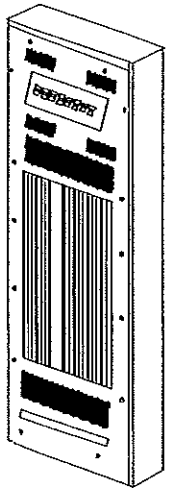
List of Parts

1. 1 user manual (A).
2. 1 MVP dimmer unit (B).
3. 1 set of neutral and ground labels (C).
4. Optional: 1 set of Input stabs for single and dual phase installations (D).
5. Optional: 1-2 pieces of fish paper.

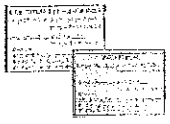
(A)



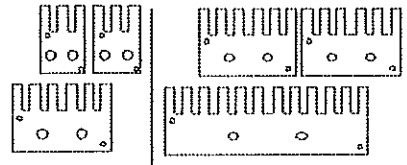
(B)



(C)



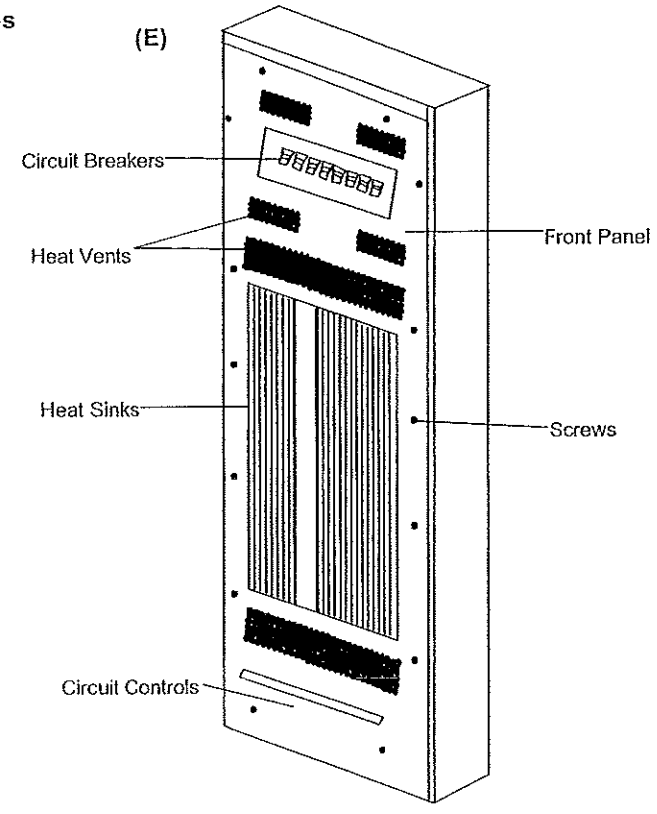
(D) **Optional**



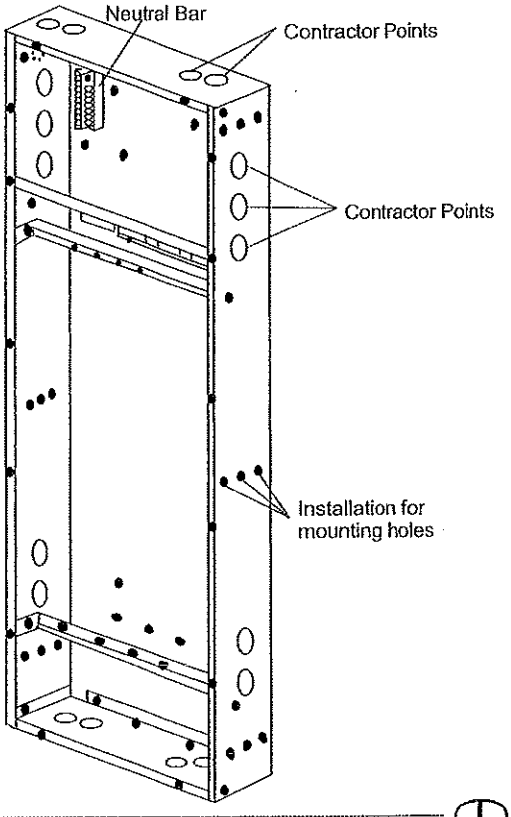
6 Pak version shown | 12 Pak version shown

Features

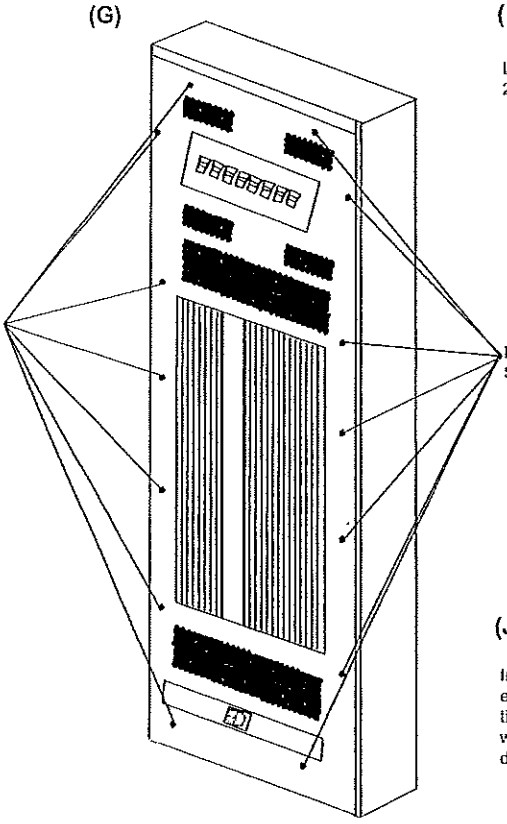
(E)



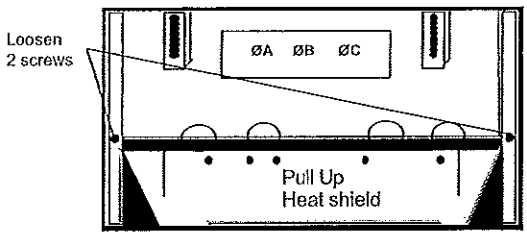
(F)



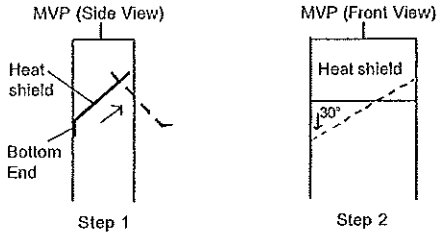
(G)



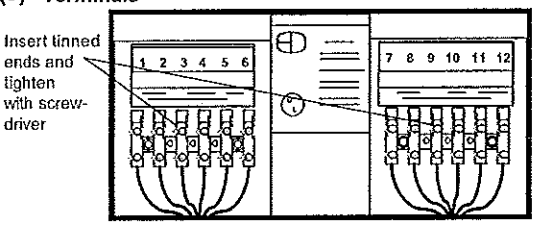
(H) Heat shield Removal



(I)



(J) Terminals



Installation of Output Loads

1. Loosen screws and remove front panel (G). Once the front panel is removed, the heat shield is located directly below the circuit breakers.

WARNING: MAKE SURE MAIN BREAKERS ARE IN THEIR OFF POSITION AND POWER FROM MAIN FEEDS IS NOT LIVE!!!

2. Loosen the two screws on either side of the heat shield (H).
3. Grasp the top edge of the heat shield and pull the heat shield upward until the top edge of the heat shield is level with the circuit breakers (H).
4. Grasp the bottom end of the heat shield and pull it towards installer (I-Step 1).
5. Rotate heat shield 30° counter clockwise (I-Step 2).
6. Remove entire heat shield. Once the heat shield is removed, the installer has complete access to the terminals.
7. Run feed wire through the contractor points located on the top of the cabinet (F).
8. Connect the feed wire to the terminals as shown (J).
9. Replace heat shield.

Installation of Input Stabs

Input stabs only require installation if the unit needs to be fitted for a phase of installation other than what is listed on the label.

WARNING: MAKE SURE POWER IS OFF!!!!

There are three sense wires located in the cabinet:

Sense Wire "A": Located to the far left (inside the cabinet).

Sense Wire "B": Located in the middle (inside the cabinet).

Sense Wire "C": Located to the far right (inside the cabinet).

There are three phases of installation (K). For each phase, the configuration for sense wire connection varies.

Single phase operation (120V): 1 input stab with 12 tabs. Sense Wires "A", "B", and "C" are all connected to input stab 1 (K-1).

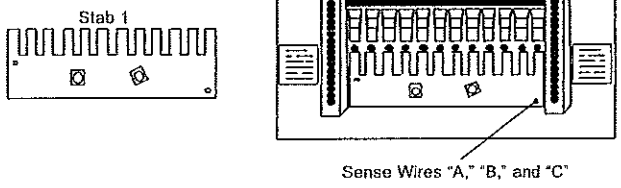
Single phase operation (240V): 2 input stabs with 6 tabs each. Sense Wires "A" and "B" are both connected to input stab 1. Sense Wire "C" is connected to input stab 2 (K-2).

3-phase operation (120V): 3 inputs stabs with 4 tabs each. Sense Wire "A" is connected to input stab 1. Sense Wire "B" is connected to input stab 2. Sense Wire "C" is connected to input stab 3 (K-3).

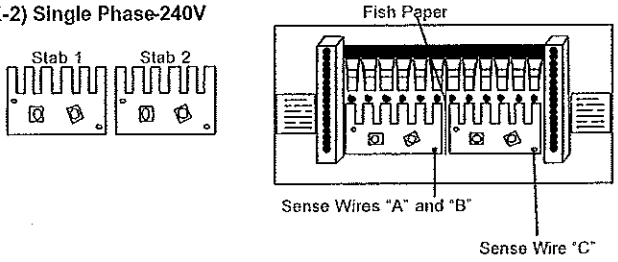
Optional fish paper is available for placement between breakers to allow for isolation between phases.

(K) Input Stabs/Sense Wire Connections

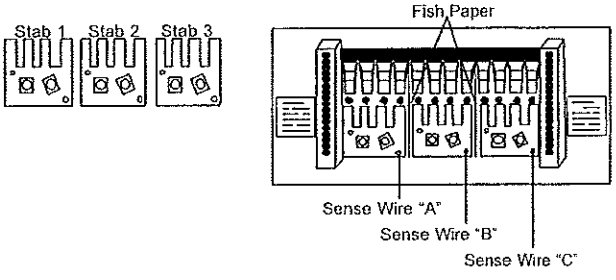
(K-1) Single Phase-120V



(K-2) Single Phase-240V



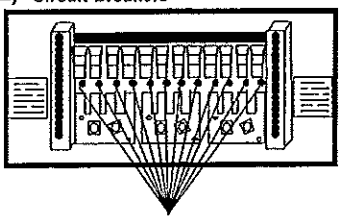
(K-3) 3-Phase-120V



To install input stabs:

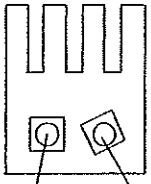
1. Loosen screws at the breakers (L).
2. Remove input stabs.
3. Unscrew the input lug and pass-through lug (M).
4. Replace the input lug and pass-through lug into the new input stab.
5. Install correct input stabs.
6. Connect each input phase to input lug (M).
7. Connect each pass-through cable to pass-through lug (M).
8. Reconnect sense wires.

(L) Circuit Breakers



Loosen screws at breakers to remove stabs

(M) Input Stabs



Reversal of Neutral and Ground Bars

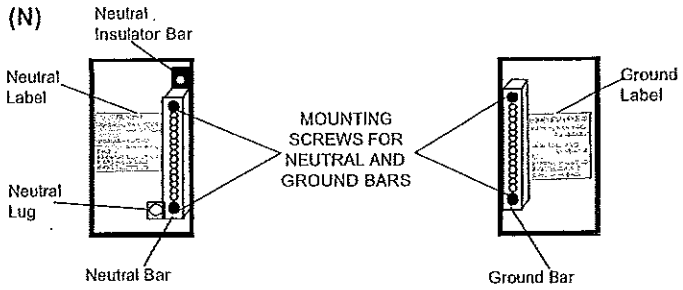
The neutral bar should be located to the left of the circuit breakers and the ground bar should be located to the right of the circuit breakers. If the neutral and ground bars are not correctly positioned, complete the following steps:

1. Remove the neutral bar.
2. Remove neutral insulator bar.

> WARNING: Neutral Insulator Bar shields the Neutral Bar from the grounded portion of the cabinet. NEVER LET THE NEUTRAL BAR COME IN CONTACT WITH THE GROUNDED PORTION OF THE CABINET!!!

3. Remove the ground bar.
4. Replace the neutral insulator bar to the opposite side.
5. Move neutral lugs on bar to optimal position for main ground and neutral wires.
6. Replace ground and neutral bars.
7. Replace ground and neutral labels.
8. Wire to terminals.

(N)

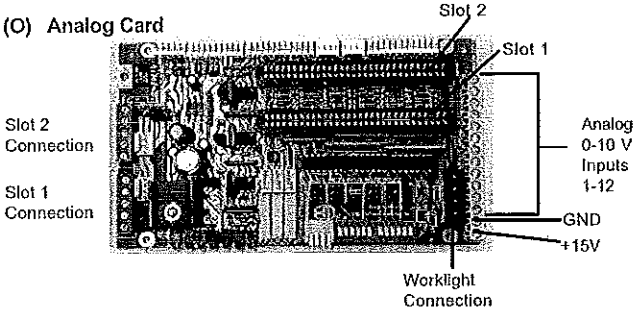


Connecting Low Voltage Control Wiring (Analog)

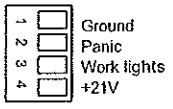
It is recommended that the installer first remove the analog board to easily access Worklight connectors.

1. String analog and Worklight connections into the cabinet.
2. Remove Worklight connections from Analog card (O).
3. Wire to connectors properly as described in the diagram (P).
4. Reconnect Worklight connectors.

(O) Analog Card



(P) Worklight Connections

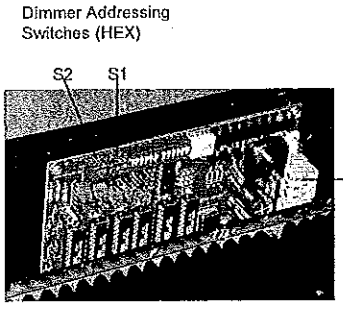


Connecting Low Voltage Control Wiring (DMX)

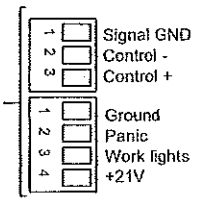
DMX is used for digital control wiring. When two or more control sources are used, the MVP acts in an HTP (higher takes precedence) scenario.

1. String DMX and Worklight connections into the cabinet.
2. Remove Worklight connections from the DMX card (connectors pop out) (Q).
3. Wire to connectors properly as described in the diagram (R).
4. Reconnect Worklight connectors.
5. Assign the dimmer using the 2 hex switches (S1 and S2) as shown in the diagram (Q). Use the dimmer addressing chart for proper configuration (S).

(Q) DMX Card



(R)



(S) Dimmer Addressing

S1 S2	Start addr.	S1 S2	Start addr.	S1 S2	Start addr.	S1 S2	Start addr.	S1 S2	Start addr.	S1 S2	Start addr.	S1 S2	Start addr.
0 0	off	2 4	71	4 8	143	6 C	215	9 0	287	B 4	359	D 8	431
0 1	1	2 5	73	4 9	145	6 D	217	9 1	289	B 5	361	D 9	433
0 2	3	2 6	75	4 A	147	6 E	219	9 2	291	B 6	363	D A	435
0 3	5	2 7	77	4 B	149	6 F	221	9 3	293	B 7	365	D B	437
0 4	7	2 8	79	4 C	151	7 0	223	9 4	295	B 8	367	D C	439
0 5	9	2 9	81	4 D	153	7 1	225	9 5	297	B 9	369	D D	441
0 6	11	2 A	83	4 E	155	7 2	227	9 6	299	B A	371	D E	443
0 7	13	2 B	85	4 F	157	7 3	229	9 7	301	B B	373	D F	445
0 8	15	2 C	87	5 0	159	7 4	231	9 8	303	B C	375	E 0	447
0 9	17	2 D	89	5 1	161	7 5	233	9 9	305	B D	377	E 1	449
0 A	19	2 E	91	5 2	163	7 6	235	9 A	307	B E	379	E 2	451
0 B	21	2 F	93	5 3	165	7 7	237	9 B	309	B F	381	E 3	453
0 C	23	3 0	95	5 4	167	7 8	239	9 C	311	C 0	383	E 4	455
0 D	25	3 1	97	5 5	169	7 9	241	9 D	313	C 1	385	E 5	457
0 E	27	3 2	99	5 6	171	7 A	243	9 E	315	C 2	387	E 6	459
0 F	29	3 3	101	5 7	173	7 B	245	9 F	317	C 3	389	E 7	461
1 0	31	3 4	103	5 8	175	7 C	247	A 0	319	C 4	391	E 8	463
1 1	33	3 5	105	5 9	177	7 D	249	A 1	321	C 5	393	E 9	465
1 2	35	3 6	107	5 A	179	7 E	251	A 2	323	C 6	395	E A	467
1 3	37	3 7	109	5 B	181	7 F	253	A 3	325	C 7	397	E B	469
1 4	39	3 8	111	5 C	183	8 0	255	A 4	327	C 8	399	E C	471
1 5	41	3 9	113	5 D	185	8 1	257	A 5	329	C 9	401	E D	473
1 6	43	3 A	115	5 E	187	8 2	259	A 6	331	C A	403	E E	475
1 7	45	3 B	117	5 F	189	8 3	261	A 7	333	C B	405	E F	477
1 8	47	3 C	119	6 0	191	8 4	263	A 8	335	C C	407	F 0	479
1 9	49	3 D	121	6 1	193	8 5	265	A 9	337	C D	409	F 1	481
1 A	51	3 E	123	6 2	195	8 6	267	A A	339	C E	411	F 2	483
1 B	53	3 F	125	6 3	197	8 7	269	A B	341	C F	413	F 3	485
1 C	55	4 0	127	6 4	199	8 8	271	A C	343	D 0	415	F 4	487
1 D	57	4 1	129	6 5	201	8 9	273	A D	345	D 1	417	F 5	489
1 E	59	4 2	131	6 6	203	8 A	275	A E	347	D 2	419	F 6	491
1 F	61	4 3	133	6 7	205	8 B	277	A F	349	D 3	421	F 7	493
2 0	63	4 4	135	6 8	207	8 C	279	B 0	351	D 4	423	F 8	495
2 1	65	4 5	137	6 9	209	8 D	281	B 1	353	D 5	425	F 9	497
2 2	67	4 6	139	6 A	211	8 E	283	B 2	355	D 6	427	F A	499
2 3	69	4 7	141	6 B	213	8 F	285	B 3	357	D 7	429	F B	501

Setting the Phase of the Dimmer (DMX)

The phase of each dimmer only needs to be set if the installer wishes to change to a different phase of operation. Use the phase switches on the DMX card to set the phase (T).

Each phase switch has 6 sets of 2 prongs. To set the switch, simply place the red plastic covers over two sets of prongs. The top two sets of prongs are labeled as position "A" , the second two sets of prongs are labeled as position "B", and the third two sets of prongs are labeled as position "C" (U).

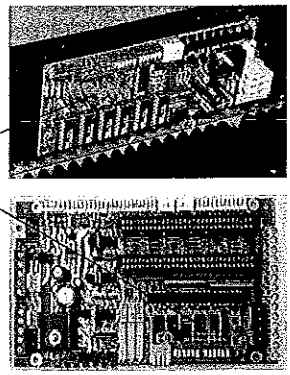
Note: Dimmers 1 and 2 are always in the "A" position.

Single phase operation (120V): Dimmers 3-12 are in the "A" position (V).

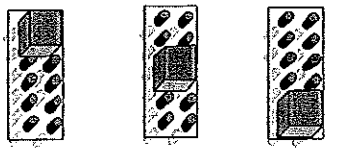
Single phase operation (240V): Dimmers 3-6 are in the "A" position, Dimmers 7-12 are in the "C" position (V).

3-phase operation (120V): Dimmers 3-4 are in the "A" position, Dimmers 5-8 are in the "B" position, and Dimmers 9-12 are in the "C" position (V).

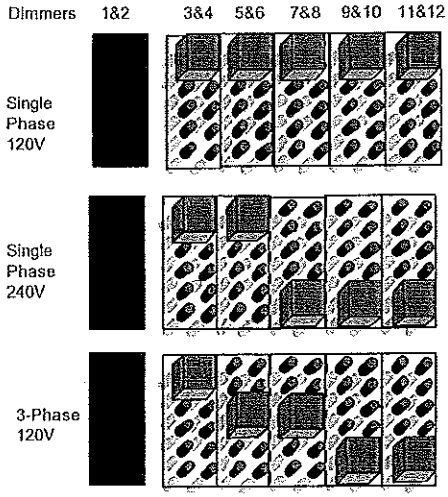
(T)



(U)



(V) Phase Switches



Testing the Dimmer (DMX)

To test the dimmer, it is recommend that the installer test the Panic Switch and assign Worklights (W).

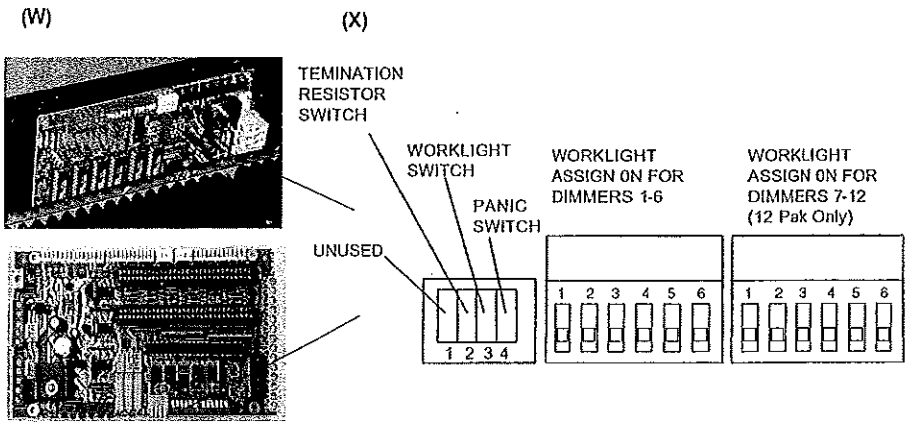
The Panic Switch is an on/off switch for all dimmer lights. To turn the Panic Switch on/off, simply press the button.

Assigning Worklights allows the installer to test individual dimmer lights.

To assign a Worklight:

1. Push one or more of the Worklight buttons to the "on" position (down and away from the number) (X).
2. Push.the Worklight Switch and the light for the dimmer(s) should light up.

If the MVP cabinet is the last dimmer in a series of dimmers, switch the termination resistor on.



1675 NW Cornelius Pass Rd. Hillsboro, OR 97124

SERVICE

EDI offers a 24 hour Service/Support Network.
For technical questions about this product or operational assistance, ask for Customer Service at:

Telephone:.....1-800-547-2690

FAX:.....1-503-629-9877

Internet.....www.edionline.com
Internet E-Mail:.....service@edionline.com

If your MVP needs repair, call: 1-503-645-5533 for a Return Materials Authorization number. A shipping address will be furnished.

This dimmer is a product of:

Electronics Diversified, Inc. 1675 N.W. Cornelius Pass Road, Hillsboro, Oregon 97214 USA