



**DECORA**  
COLLECTION BY LEVITON

**ILLUMATECH**

Single Pole (One location) or  
3-Way (Multi-location)

Fluorescent Only

Cat. No. IP710-DL (Lighted)

Rated: 1200VA-120VAC, 60Hz  
1500VA-277VAC, 60Hz

For use with 0-10 VDC dimming ballasts

**INSTALLATION INSTRUCTIONS**



DI-000-IP710-00B

**LIMITED 2 YEAR WARRANTY AND EXCLUSIONS**  
Leviton warrants to the original consumer purchaser and not for the benefit of anyone else that this product at the time of its sale by Leviton is free of defects in materials and workmanship under normal and proper use for two years from the purchase date. Leviton's only obligation is to correct such defects by repair or replacement, at its option, if within such two year period the product is returned prepaid, with proof of purchase date, and a description of the problem to Leviton Manufacturing Co., Inc., Att: Quality Assurance Department, 59-25 Little Neck Parkway, Little Neck, New York 11362-2591 (In Canada send to Leviton Mfg. of Canada Ltd., 165 Hymus Blvd., Point Claire, (Quebec), Canada H9R 1E9). This warranty excludes and there is disclaimed liability for labor for removal of this product or reinstallation. This warranty is void if this product is installed improperly or in an improper environment, overloaded, misused, opened, abused, or altered in any manner, or is not used under normal operating conditions or not in accordance with any labels or instructions. There are no other or implied warranties of any kind, including merchantability and fitness for a particular purpose, but if any implied warranty is required by the applicable jurisdiction, the duration of any such implied warranty, including merchantability and fitness for a particular purpose, is limited to two years. Leviton is not liable for incidental, indirect, special, or consequential damages, including without limitation, damage to, or loss of use of, any equipment, lost sales or profits or delay or failure to perform this warranty obligation. The remedies provided herein are the exclusive remedies under this warranty, whether based on contract, tort or otherwise.

For Technical Assistance Call:  
1-800-824-3005 (U.S.A. Only)  
1 800 405-5320 (Canada Only)  
www.leviton.com



DI-000-IP710-00B

**FEATURES**

- Leviton's Decora® style design
- Color conversion available
- Large ON/OFF switch
- ON/OFF LED indicates status of load

**INSTALLATION INSTRUCTIONS**

**WARNING:** TO BE INSTALLED AND/OR USED IN ACCORDANCE WITH APPROPRIATE ELECTRICAL CODES AND REGULATIONS.

**WARNING:** IF YOU ARE NOT SURE ABOUT ANY PART OF THESE INSTRUCTIONS, CONSULT A QUALIFIED ELECTRICIAN.

**WARNING:** TO AVOID OVERHEATING AND POSSIBLE DAMAGE TO THIS DEVICE AND OTHER EQUIPMENT, USE ONLY WITH THE ADVANCE TRANSFORMER 120/277V MARK VII™ OR OSRAM SYLVANIA QUICKTRONIC HELIOS ELECTRONIC BALLASTS FOR CONTROLLING THE SPECIFIC FLUORESCENT LAMPS.

**OTHER CAUTIONS:**

1. USE ONLY ONE (1) DIMMER IN A 3-WAY CIRCUIT. THE SWITCH(ES) WILL TURN THE LIGHT ON AT THE BRIGHTNESS LEVEL SELECTED AT THE DIMMER.
2. LIGHTING FIXTURE AND DIMMER MUST BE GROUNDED.
3. DISCONNECT POWER WHEN SERVICING OR CHANGING LAMPS.
4. USE THIS DEVICE ONLY WITH COPPER OR COPPER CLAD WIRE. WITH ALUMINUM WIRE USE ONLY DEVICES MARKED CO/ALR OR CU/AL.

**MULTI-GANG INSTALLATION:**

When ganging dimmers, the side sections of the mounting strap must be removed. Use pliers to carefully bend side sections back and forth until they break off (see Chart and Figure 1).

**MAXIMUM BULB WATTAGE:**

Mark VII™ and OSRAM Sylvania Quicktronic Helios ballast are rated in Volt-Amps (VA). The maximum number of ballast per dimmer is based on the load VA rating (see Maximum Load per Dimmer table) or 50 ballast maximum, whichever is less. The maximum bulb wattage is determined by the efficiency of the ballast. The following tables show the maximum number of ballasts that can be connected to a single dimmer for different Mark VII™ or OSRAM Sylvania Quicktronic Helios ballasts.

MAXIMUM LOAD PER DIMMER FOR MULTI-GANG				
Cat. No.	Volts	Single	Two Gang	More than 2 Gang
IP710-DL	120	1200 VA	1200 VA	1200 VA
IP710-DL	277	1500 VA	1500 VA	1500 VA

**FOR DIRECT LOAD APPLICATION CONFIGURATIONS (WIRING DIAGRAMS 1, 2 AND 3), REFER TO TABLE 1 AND TABLE 2 FOR BALLAST INFORMATION.**

**NOTE:** For additional switching capacity (up to 50 ballast), use dimmers in conjunction with a Leviton ODP 120/277V Power Pack.

**FOR APPLICATIONS USING LEVITON'S ODP (WIRING DIAGRAMS 4 AND 5), ODP SWITCH RATINGS ARE AS FOLLOWS (REFER TO ODP INSTRUCTION SHEET FOR ADDITIONAL INFORMATION):**

**ODP SWITCH RATINGS:**

20 Amps for 120 and 277 VAC Ballast

**TO INSTALL:**

1. **WARNING:** TO AVOID FIRE, SHOCK, OR DEATH; TURN OFF POWER AT CIRCUIT BREAKER OR FUSE AND TEST THAT POWER IS OFF BEFORE WIRING!
2. Remove existing wallplate and switch, if applicable.
3. Remove 3/4" (1.9 cm) of insulation from each circuit conductor. Make sure the ends of wires are straight.
4. Connect wires per appropriate WIRING DIAGRAM and FIGURE 3 as follows: **NOTE: Common terminal of 3-Way Switch is usually labeled and/or BLACK.** Twist strands of each lead tightly and, with circuit conductors, push firmly into appropriate wire connector (see chart for allowable wire connector and number of conductor combinations). Screw connectors on clockwise making sure no bare wires show below the wire connectors. Secure each connector with electrical tape.
 

**NOTE:** For single pole applications, cap one BLACK lead with an appropriate size wire connector. Secure connector with electrical tape.

**NOTE:** For long low-voltage wiring runs or where excessive electrical noise exists, shielded cable or conduit is recommended.
5. Installation may now be completed by carefully positioning all wires to provide room in outlet box for dimmer. Mount dimmer into box with mounting screws supplied. Attach Decora® wallplate.
6. Restore power at circuit breaker or fuse. **INSTALLATION IS COMPLETE.**

WIRE CONNECTOR / # OF COND. COMBINATION CHART		
1- #12 w/ 1 to 3 #14, #16 or #18	2- #14 w/ 1 #16 w/ 1 or 2 #18 or #20	
2- #12 w/ 1 #14 w/ 1 #16 or #18	3- #14 w/ 1 or 2 #18 or #20	
2- #12 w/ 1 #16 w/ 1 or 2 #18	4- #14 w/ 1 #16 or #18	
2- #14 w/ 1 to 3 #16, #18 or #20	2- #16 w/ 1 #18 w/ 1 or 2 #20 or #22	
4- #16 w/ 1 or 2 #18, #20 or #22	1- #14 w/ 1 #18 w/ 1 to 3 #20	
1- #14 w/ 1 to 4 #16, #18 or #20	3- #14 w/ 1 #16 w/ 1 #18, #20, #22	
2- #14 w/ 1 to 3 #16, #18 or #20	3- #14 w/ 1 #18 w/ 1 #20 or #22	

**COLOR CONVERSION PROCEDURE**

The color of this device can be changed to suit your interior design requirements. Simply obtain a color conversion kit of the appropriate color from your Lithonia distributor and proceed as follows (please note that wallplate must be removed):

1. Select the color of the face you desire.
2. The frame has snaps on its sides. Using your fingers, grip around the Decora® frame and push on one side to release it from the strap (refer to Figure 2).
3. Take the new frame and position it properly to the strap. Line up the plastic snaps with the square holes in the strap. Insert the snaps on one side of the frame into the strap.
4. Firmly press sideways and down to slip the other snaps into place. The frame snaps in with an audible click. Ensure that all four snaps are secure.
5. Moving the slider up or down will automatically engage the slider control mechanism. Replace Decora® wallplate. **The color conversion is complete.**

**TO OPERATE**

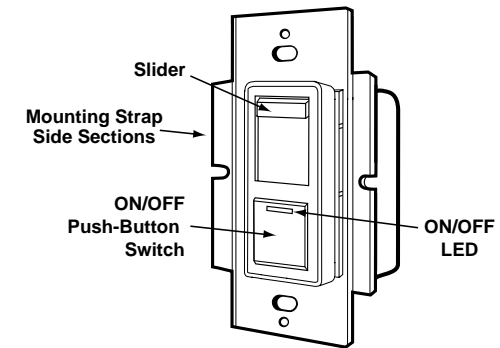
- GREEN LED will remain ON when the lights are OFF
  - Facilitates access to switch in the dark.
- Depress push-button switch to ON position
  - Lights will turn ON (GREEN LED will turn OFF).
- Move slider control lever – lights will brighten or dim to level set.
- Depress push-button switch to OFF position
  - Lights will turn OFF (GREEN LED will turn ON).
- Lights will turn ON at set brightness level (from either switch location in a 3-way or 4-way installation).

**TROUBLESHOOTING**

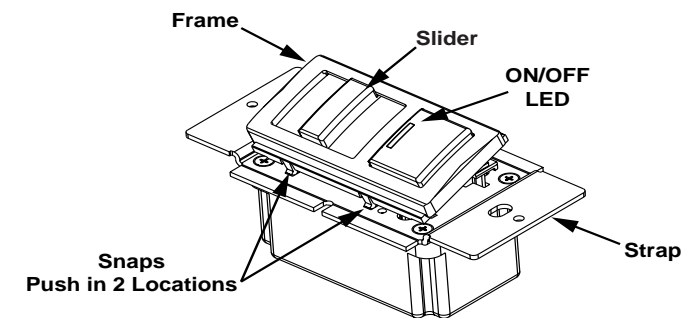
- Lights do not go to full output
  - Move the slider to the top and locate the trim pot, located on the back top left of the dimmer. Using a small screwdriver, adjust the high end trim until the desired output is achieved.
- Lights do not dim low enough
  - Check the ballast output with a light meter when no other sources of illumination are present, or subtract out other sources from both high and low readings. The ratio of the low reading and the high reading should be at least 1:20 or 0.05 for the Advance Mark VII™ RZT Series. When taking the high end measurement, adjust the trimpot to provide maximum output.
  - If 100% and minimum output is not achieved, check to see that the Purple and Gray wires are not miswired in any fixtures.



**Figure 1 – Dimmer Functions**



**Figure 2 – Color Conversion**



**Figure 3 – Low-Voltage Wiring**

Wire Size	Max. Distance
#18 AWG	500' (150 m)
#16 AWG	825' (250 m)
#14 AWG	1300' (400 m)
#12 AWG	2100' (650 m)



TABLE 1

Cat. No. ISD BC, 120/277V, For use with Advance Transformer 120/277V Mark VII™

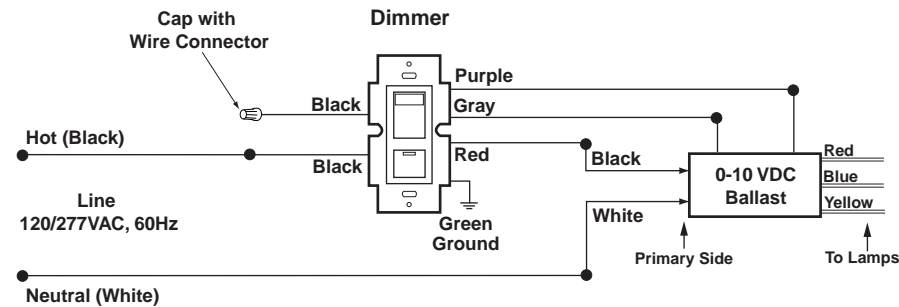
Advance Mark VII™ Part No.	Lamp	Max. # Ballasts/Dimmer for Multi-gang		
		Voltage	120VA@ 120V	1500VA@ 277V
RZT-132	F25T8	120	47	N/A
RZT-2S32	F25T8	120	23	N/A
RZT-3S32	F25T8	120	15	N/A
RZT-132	F32T8	120	35	N/A
RZT-2S32	F32T8	120	18	N/A
RZT-3S32	F32T8	120	12	N/A
RZT-1TTS40	FT40W/2G11	120	31	N/A
VZT-4S32	F17T8	277	N/A	21
VZT-132	F25T8	277	N/A	50
VDC-2S32-TP	F25T8	277	N/A	31
VZT-2S32	F25T8	277	N/A	30
VZT-3S32	F25T8	277	N/A	19
VZT-4S32	F25T8	277	N/A	15
VZT-132	F32T8	277	N/A	45
VDC-2S32-TP	F32T8	277	N/A	24
VZT-2S32	F32T8	277	N/A	22
VZT-3S32	F32T8	277	N/A	15
VZT-4S32	F32T8	277	N/A	12
IZT-1T42-M2-BS@120	CFM26W/GX24Q	120-277	40	N/A
IZT-1T42-M2-BS@277	CFM26W/GX24Q	120-277	N/A	49
IZT-1T42-M2-LD@120	CFM26W/GX24Q	120-277	40	N/A
IZT-1T42-M2-LD@277	CFM26W/GX24Q	120-277	N/A	49
IZT-2Q26-M2-BS@120	CFM26W/GX24Q	120-277	20	N/A
IZT-2Q26-M2-BS@277	CFM26W/GX24Q	120-277	N/A	25
IZT-2Q26-M2-LD@120	CFM26W/GX24Q	120-277	20	N/A
IZT-2Q26-M2-LD@277	CFM26W/GX24Q	120-277	N/A	25
IZT-1T42-M2-BS@120	CFM32W/GX24Q	120-277	30	N/A
IZT-1T42-M2-BS@277	CFM32W/GX24Q	120-277	N/A	38
IZT-1T42-M2-LD@120	CFM32W/GX24Q	120-277	30	N/A
IZT-1T42-M2-LD@277	CFM32W/GX24Q	120-277	N/A	38
IZT-2T42-M3-BS@120	CFM32W/GX24Q	120-277	15	N/A
IZT-2T42-M3-BS@277	CFM32W/GX24Q	120-277	N/A	20
IZT-2T42-M3-LD@120	CFM32W/GX24Q	120-277	15	N/A
IZT-2T42-M3-LD@277	CFM32W/GX24Q	120-277	N/A	20
IZT-1T42-M2-BS@120	CFM42W/GX24Q	120-277	23	N/A
IZT-1T42-M2-BS@277	CFM42W/GX24Q	120-277	N/A	30
IZT-1T42-M2-LD@120	CFM42W/GX24Q	120-277	23	N/A
IZT-1T42-M2-LD@277	CFM42W/GX24Q	120-277	N/A	30
IZT-2T42-M3-BS@120	CFM42W/GX24Q	120-277	12	N/A
IZT-2T42-M3-BS@277	CFM42W/GX24Q	120-277	N/A	15
IZT-2T42-M3-LD@120	CFM42W/GX24Q	120-277	12	N/A
IZT-2T42-M3-LD@277	CFM42W/GX24Q	120-277	N/A	15
IZT-1T42-M2-BS@120	CFQ26W/G24Q	120-277	40	N/A

TABLE 2

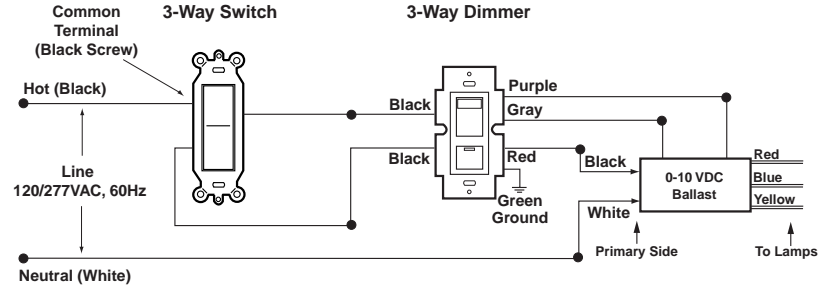
Cat. No. ISD BC, 120/277V, For use with OSRAM Sylvania Quicktronic 120/277V Helios Electronic Ballasts

OSRAM Sylvania Quicktronic Helios Part No.	Lamp	Max. # Ballasts/Dimmer for Multi-gang		
		Voltage	120VA@ 120V	1500VA@ 277V
QTP1x32T8/120 Dim5-B	F17T8	120	50	N/A
QTP1x32T8/120 Dim5-B	FBO16T8	120	50	N/A
QTP1x32T8/120 Dim5-B	F25T8	120	43	N/A
QTP1x32T8/120 Dim5-B	FBO24T8	120	45	N/A
QTP1x32T8/120 Dim5-B	F32T8	120	37	N/A
QTP1x32T8/120 Dim5-B	FBO32T8/U/6	120	37	N/A
QTP1x32T8/120 Dim5-B	FBO31T8/U	120	38	N/A
QTP2x32T8/120 Dim5-B	F32T8	120	17	N/A
QTP2x32T8/120 Dim5-B	FBO32T8/U/6	120	17	N/A
QTP2x32T8/120 Dim5-B	FBO31T8/U	120	18	N/A
QTP3x32T8/120 Dim5-Q	F32T8	120	12	N/A
QTP3x32T8/120 Dim5-Q	FBO32T8/U/6	120	12	N/A
QTP3x32T8/120 Dim5-Q	FBO31T8/U	120	13	N/A
QTP4x32T8/120 Dim10-B	F32T8	120	9	N/A
QTP4x32T8/120 Dim10-B	FBO32T8/U/6	120	9	N/A
QTP4x32T8/120 Dim10-B	FBO31T8/U	120	9	N/A
QTP1x32T8/277 Dim5-B	F17T8	277	N/A	50
QTP1x32T8/277 Dim5-B	FBO16T8	277	N/A	50
QTP1x32T8/277 Dim5-B	F25T8	277	N/A	50
QTP1x32T8/277 Dim5-B	FBO24T8	277	N/A	50
QTP1x32T8/277 Dim5-B	F32T8	277	N/A	45
QTP1x32T8/277 Dim5-B	FBO32T8/U/6	277	N/A	45
QTP1x32T8/277 Dim5-B	FBO31T8/U	277	N/A	45
QTP2x32T8/277 Dim5-B	F32T8	277	N/A	21
QTP2x32T8/277 Dim5-B	FBO32T8/U/6	277	N/A	21
QTP2x32T8/277 Dim5-B	FBO31T8/U	277	N/A	22
QTP3x32T8/277 Dim5-Q	F32T8	277	N/A	15
QTP3x32T8/277 Dim5-Q	FBO32T8/U/6	277	N/A	15
QTP3x32T8/277 Dim5-Q	FBO31T8/U	277	N/A	16
QTP4x32T8/277 Dim10-B	F32T8	277	N/A	9
QTP4x32T8/277 Dim10-B	FBO32T8/U/6	277	N/A	9
QTP4x32T8/277 Dim10-B	FBO31T8/U	277	N/A	10
QT1x54/120PHO-Dim	FP54T5HO	120	18	N/A
QT2x54/120PHO-Dim	FP54T5HO	120	9	N/A
QT1x54/120PHO-Dim	FT55DL	120	19	N/A
QT2x54/120PHO-Dim	FT55DL	120	10	N/A
QT1x54/120PHO-Dim	FPC55	120	19	N/A
QT2x54/120PHO-Dim	FPC55	120	10	N/A
QT1x54/277PHO-Dim	FP54T5HO	277	N/A	23
QT2x54/277PHO-Dim	FP54T5HO	277	N/A	12
QT1x54/277PHO-Dim	FT55DL	277	N/A	24
QT2x54/277PHO-Dim	FT55DL	277	N/A	12
QT1x54/277PHO-Dim	FPC55	277	N/A	24
QT2x54/277PHO-Dim	FPC55	277	N/A	12

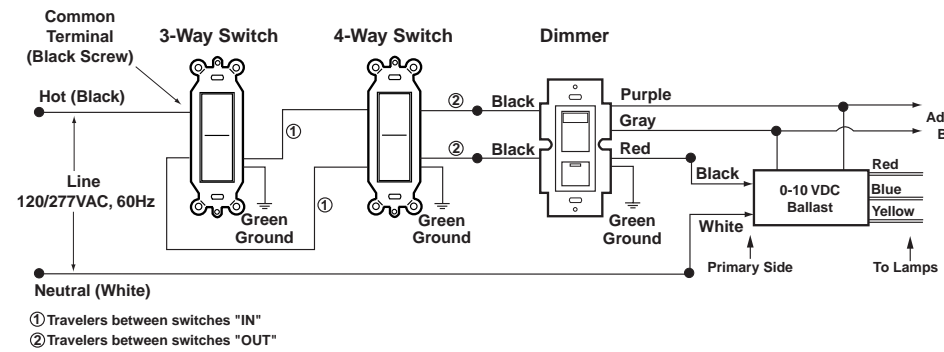
Wiring Diagram 1 – Single Control Application



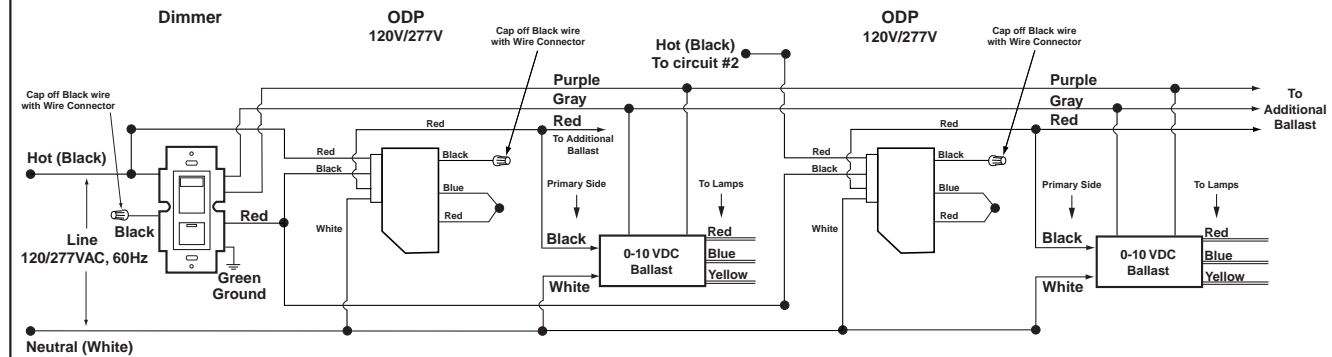
Wiring Diagram 2 – Two Location Control Application



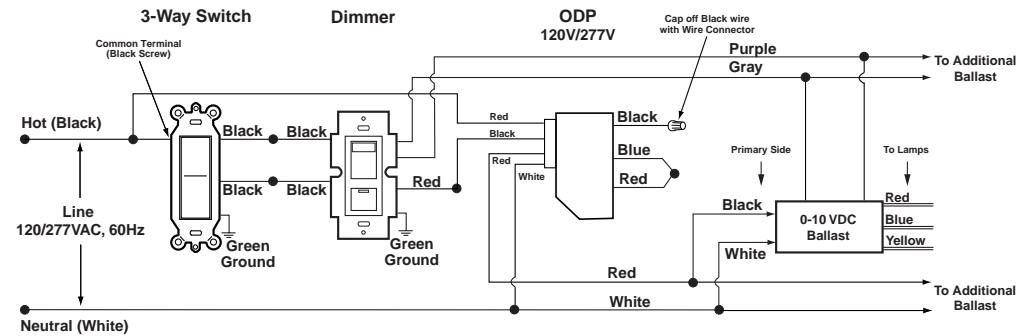
Wiring Diagram 3 – Three Location Control Application



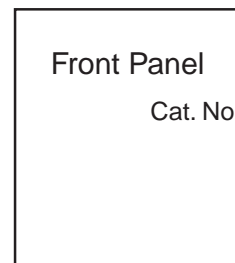
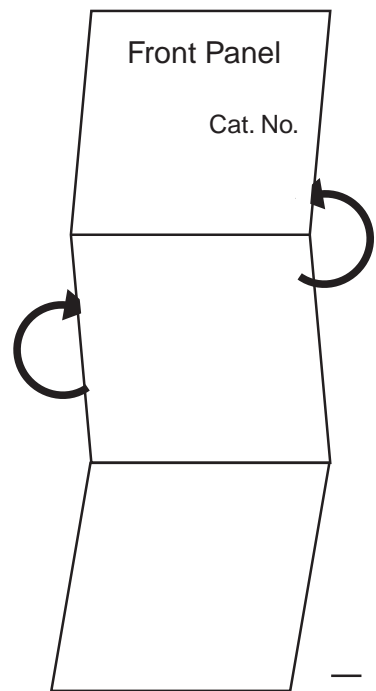
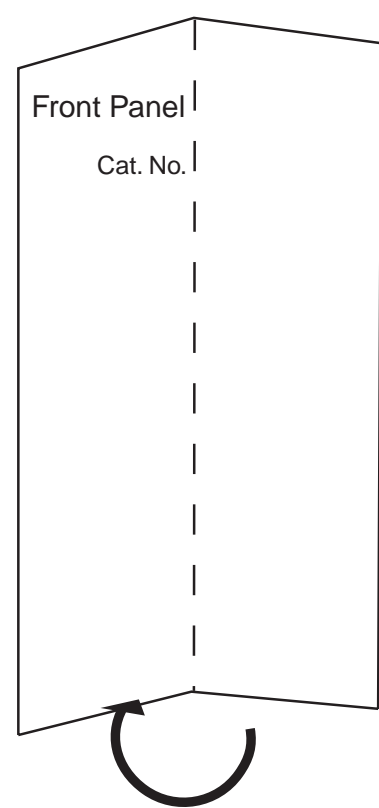
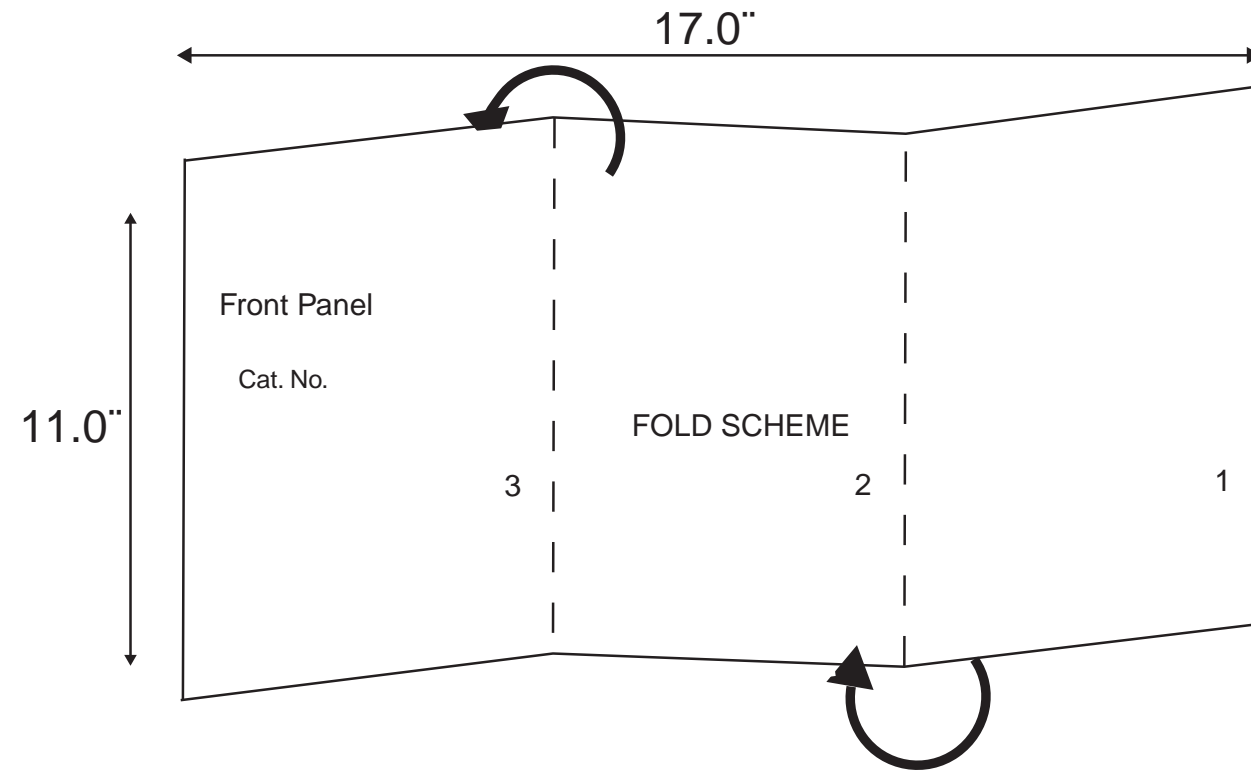
Wiring Diagram 4 – Single Control with ODP Power Pack Application



Wiring Diagram 5 – Two Location Control with ODP Power Pack



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#'s = Fold Sequence

**LEVITON INSTRUCTION SHEET/MANUAL SPECIFICATIONS**

- Artwork No/Rev Level: DI-40x-IP710-00A
- Color(s): Black over
- 1. \_\_\_\_\_ 2. \_\_\_\_\_
- 3. \_\_\_\_\_ 4. \_\_\_\_\_
- Font Families: Helvetica
- Material  
Type: 50 Lb. offset
- Coating:  \_\_\_\_\_
- Paper size:  
**Overall size:** 17" x 11"  
**Final fold size:** 2.83" x 3.66"

**DOCUMENTATION**

- ECO No.: N/A
- Artist: rde Date: 07/18/02

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