



Designer Wall Box Dimmer

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

120VAC, 60Hz

Incandescent

Cat. No. ISD 600 I, 600W (Lighted)

Cat. No. ISD 1000 I, 1000W (Lighted)

Magnetic Low-Voltage

Cat. No. ISD 600 LV, 600VA (Lighted)

Cat. No. ISD 1000 LV, 1000VA (Lighted)

INSTALLATION INSTRUCTIONS



1335 Industrial Boulevard, Conyers, GA 30012
Phone: 800-533-2719 www.synergylightingcontrols.com

GUARANTEE

Synergy Lighting Controls warrants all equipment to be free from defects in manufacturing, under normal and proper storage, installation, and use, for a period of two years. Our guarantee liability extends only to the repair or replacement of the defective part and no labor charges for correction of the defect by repair or replacement will be honored by Synergy Lighting Controls unless prior written authority has been granted by our Customer Service Department.

For Technical Assistance Call:
1-800-533-2719

www.synergylightingcontrols.com



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FEATURES

- Minimum Brightness Adjustment
- Color conversion available
- Large ON/OFF switch
- ON/OFF 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, CONTACT LITHONIA CONTROL SYSTEMS AT 1-800-533-2719.

WARNING: TO AVOID OVERHEATING AND POSSIBLE DAMAGE TO THIS DEVICE AND OTHER EQUIPMENT, DO NOT INSTALL TO CONTROL A RECEPTACLE, FLUORESCENT LIGHTING, A MOTOR- OR A TRANSFORMER-OPERATED APPLIANCE OTHER THAN APPROPRIATE LOW-VOLTAGE LIGHTING.

CAUTION (For Incandescent Only): USE WITH INCANDESCENT OR 120V HALOGEN FIXTURES ONLY.

CAUTION (For Magnetic Low-Voltage Only):

1. USE WITH MAGNETIC LOW-VOLTAGE TRANSFORMERS, INCANDESCENT, OR 120V HALOGEN FIXTURES ONLY. USE A LITHONIA ELECTRONIC LOW-VOLTAGE DIMMER TO CONTROL ELECTRONIC (SOLID STATE) LOW-VOLTAGE TRANSFORMERS.

2. WHEN A MAGNETIC LOW-VOLTAGE CIRCUIT IS OPERATED AT A DIM LEVEL, WITH ALL LAMPS INOPERATIVE, EXCESS CURRENT MAY FLOW THROUGH THE TRANSFORMER. TO AVOID POSSIBLE TRANSFORMER FAILURE DUE TO OVERCURRENT, USE A TRANSFORMER THAT INCORPORATES THERMAL PROTECTION OR A FUSE AT THE PRIMARY WINDINGS.

OTHER CAUTIONS:

1. USE ONLY ONE (1) DIMMER PER LOAD. THE SWITCH(ES) WILL TURN THE LIGHT ON AT THE BRIGHTNESS LEVEL SELECTED AT THE DIMMER.
2. DISCONNECT POWER WHEN SERVICING OR CHANGING LAMPS.
3. 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 Figure 1). The side sections dissipate heat, so removing them requires a derating of the dimmer's capacity (see chart).

MAXIMUM BULB WATTAGE (For Magnetic Low-Voltage Only):

Low-voltage dimmers are rated in Volt-Amps (VA). The maximum bulb wattage is determined by the efficiency of the transformer in the low-voltage lighting system. Transformer efficiencies will vary from different manufacturers; consider 75% efficient as average. Use the chart to determine maximum bulb wattage for typical transformer efficiency ratings.

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 lead wires per appropriate WIRING DIAGRAM as follows: **WARNING: CONNECT A MAGNETIC LOW-VOLTAGE DIMMER ONLY TO THE PRIMARY (HIGH-VOLTAGE) SIDE OF A MAGNETIC LOW-VOLTAGE TRANSFORMER. Note: Common terminal of a 3-Way Switch is usually labeled and/or BLACK.**

Twist dimmer leads together with circuit conductors and push firmly into appropriate wire connector. Screw connectors on clockwise making sure that no bare conductor shows 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: This model incorporates a trim adjustment which will allow the installer to precisely set the low end of the dimming range to suit each installation. This adjustment is preset at the factory and should require no further adjustments for most installations. If adjustment is required proceed as follows, otherwise continue with step 8:



MAXIMUM LOAD PER DIMMER FOR MULTI-GANG			
Cat. No.	Single	Two Gang	More than 2 Gang
ISD 600 I	600W	500W	400W
ISD 1000 I	1000W	800W	700W
ISD 600 LV	600VA	500VA	400VA
ISD 1000 LV	1000VA	800VA	700VA

MAXIMUM BULB WATTAGE AT 75% EFFICIENCY			
Rating	Single	Two Gang	More than 2 Gang
600VA	450W	375W	300W
1000VA	750W	600W	525W

Figure 1 - Dimmer Functions

