

Installation Training Seminar

ILS-2600-0IR ILS-3600-0IR

ILS-2600-0IR White (L-865(L)) LED Lighting Systems

ILS-3600-0IR Dual (L-865(L)/L-864(L)) LED Lighting Systems







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Front Matter

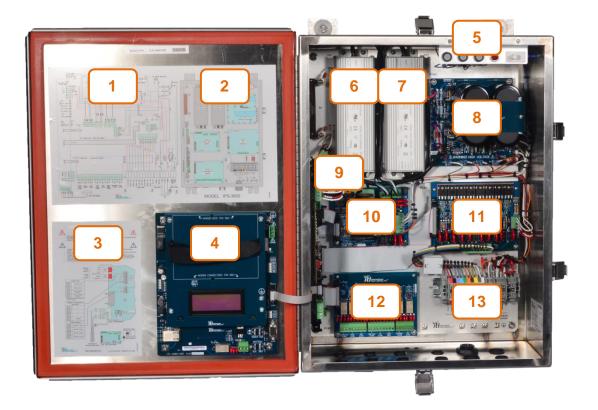
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Power Supply Layout



- 1 System Wiring Diagram
- 2 System Layout
- 3 Configuration Settings Description
- 4 MON-2682 Communication Board
- 5 Fuses (Input Power/PEC/Side Light) and Interlock Switch
- 6 Power Supply #1
- 7 Power Supply #2

- 8 Capacitor Board PCB4
- 9 Timing and Trigger Board PCB1
- **10** Side Light Control Board PCB2
- **11** FET Driver Board PCB5
- 12 Alarm Status / Contacts PCB3
- 13 Flash Head / Side Light / PEC / Input Power Terminal Block TB1





Cable Stripping / Termination

- □ Individual conductor's outer insulation not cut/damaged. (Usually where outer jacket was removed) (Fig. 2)
- □ Conductors stripped without removing wire strands. (Use correct stripping tool for wire gauge) (Fig. 3)

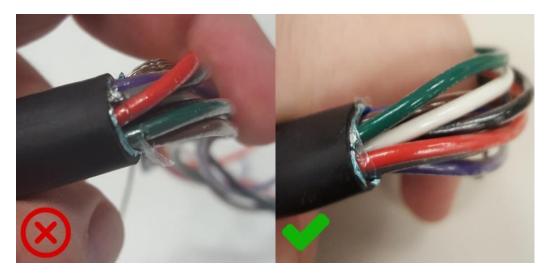


Figure 2

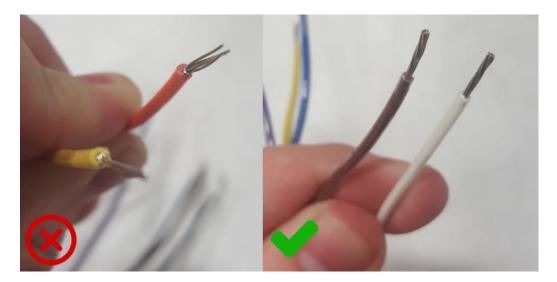


Figure 3



Flash Head / Flash Head Cable Install

- □ Lightning rod installed no less than 18" away from and 36" above flash head (Fig. 3)
- Flash head mounted with bolts included without obstructions allowing 360° view (Fig. 4)
- □ Cable gland secured around cable to prevent water intrusion (Fig. 4)
- □ Drip loop created on cable exiting flash head (Fig. 4)
- □ Cable secured to tower no more than 12" away from flash head with no stress on cable gland (Fig. 4)
- □ Level the flash head both the North-South and East-West directions with user supplied level (Fig. 5)
- Cable secured to the tower utilizing 2-3-4 method no more than every 5' (See Manual)
- □ Cable secured 6" directly above and below and cross angles or tower leg flanges leaving 1" of space between cable and flange/angle (Fig. 6)
- □ Cable mounted behind and not extending past any climbing pegs (See Manual)
- Stainless steel cable support installed below service loop and secured to tower (Fig. 7)
- 24-48" service loop installed vertically to the tower below the flash head (Fig.8 See Fig. 9 for incorrect Service loop)
- □ Cable connections on terminal block wired to provided color code (Fig. 10)
- □ Drain wire secured to ground lug and as short as possible (Fig. 10)
- 24-48" service loop installed at base of tower near flash head surge suppressor (Fig. 11)
- □ 24-48" service loop installed at base of tower near power supply (Fig. 12)
- Drip loops created before entering lighting controller (Fig. 13)



Flash Head / Flash Head Cable Install



Figure 3

Figure 4

Figure 5



Figure 6

Figure 7

Figure 8

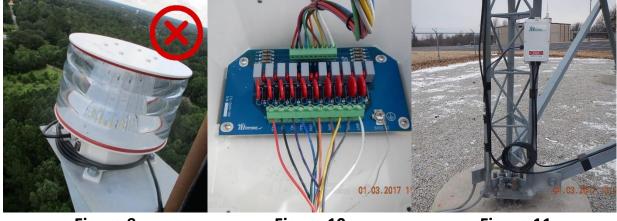


Figure 9

Figure 10

Figure 11



Flash Head / Flash Head Cable Install



Figure 12

Figure 13

Side Light / Side Light Cable Install

- □ Side Lights secured to tower using supplied mounts no more than 2' from tower (Fig. 14)
- □ All cable glands secured around cable to prevent water intrusion (Fig. 14)
- □ Stainless steel cable support installed below service loop and secured to tower (Fig. 15)
- □ Cable secured to the tower utilizing 2-3-4 method no more than every 5' (See Manual)
- Junction box mounted to tower securely in correct orientation and service loop mounted below junction box vertically (Fig. 16 & Fig. 17)
- □ Cable secured 6" directly above and below and cross angles or tower leg flanges leaving 1" of space between cable and flange/angle (Fig. 18)





Figure 14

Figure 15



Figure 16

Figure 17



Figure 18





Flash Head Surge Suppressor

- □ Mounted close to the tower ground buss bar (Fig. 19)
- Supplied ground wire should be grounded to tower ground buss bar without extending (Fig. 19)
- □ Cable glands secured to prevent water intrusion (Fig. 19)
- Enclosure cover secured with provided gasket and six mounting screws (Fig. 19)
- Flash head cable mounted to right terminal block following provided color code.
 Cable to lighting controller mounted to left terminal block following provided color code (Fig. 20)
- Drain wires mounted to grounding lugs and as short as possible (Fig. 20)

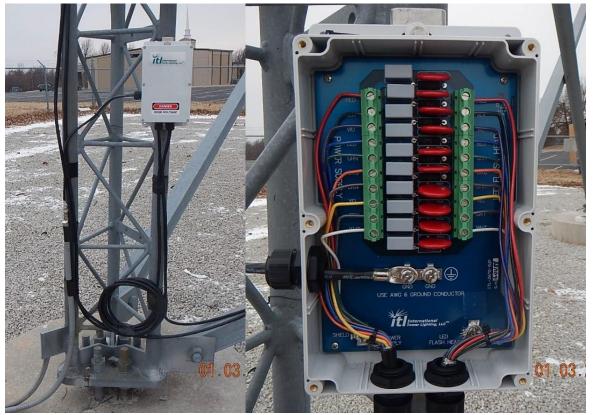


Figure 19

Figure 20



Photo Electric Cell (PEC)

- □ PEC mounted vertically with supplied materials
- PEC facing north with no obstructions or light sources to affect proper operation

Power Supply Install

- System mounted upright away from and direct RFI (Radio Frequency Interference)
- □ No holes created in system other than the bottom of the enclosure (Fig. 22)
- All unused holes sealed to prevent intrusion of debris/animals/insects (Fig. 22)
- Door must open 180 degrees freely without obstruction
- Flash head cable wires connected to TB1 positions 1-10 following color code on TB1 (Fig. 23)
- Side Light cable installed on TB1 positions 11 & 12 with ground connected to ground lug (Fig. 23)
- □ Photo Electric Cell (PEC) cable installed on TB1 positions 13-15 (Fig. 23)
- Input power cable installed on TB1 positions 16 & 17 with ground connected to ground lug (Fig. 23)

Power Supply Install

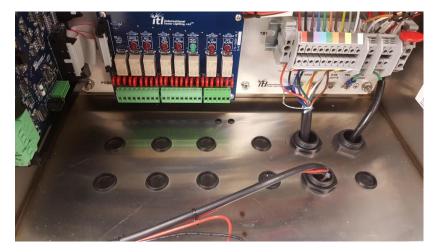


Figure 22

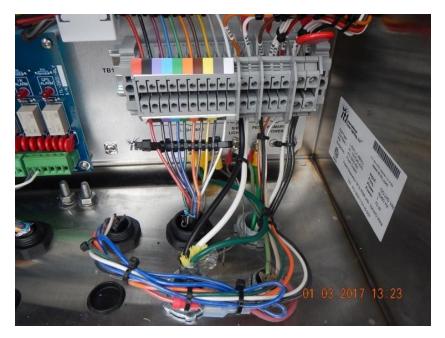


Figure 23





Testing

- System operates in day mode for 10 consecutive minutes without any alarm LEDs on PCB3
- □ With PEC covered system switches to night mode within one minute
- With PEC covered and system in night mode verify operation with no alarm LEDs on PCB3 for at least 10 consecutive minutes



