

JL-241/242/243 INTELLIGENT ELECTRONIC TWIST-LOCK PHOTOELECTRIC SWITCH

1. Product Summary

The dimming photocontroller JL-241/242/243 series is applicable to control any independent LED home/street lighting automatically in accordance with the ambient natural lighting level.

This product is designed with microprocessor circuits with IR-filtered silicone sensor, a heavy duty surge arrester (MOV) is provided to protect the lamp from inrush current as well as impulse by lightening.

Further, a preset 10 seconds time-delay prevents excessive operation due to spotlight or lightning during the night time.

A heavy duty relay supports the work life of over 15,000 cycles, and offers extra long work life when an optional metal Armor is applied together.

This product provides twist lock terminals and signal contacts meeting the requirements of ANSI C136.41-2013, as well as being listed by UL under the Standard for Plug-In, Locking Type Photocontrols for Use with Area Lighting ANSI/UL773.

2. Ordering Information

JL-241*1 - C*2 - K*3 - IP65*4 - F*5 (100*6 - 05*7 - D40*8 - L40*9)

***1: Model Number;**

***2: Rated Voltage**

C= 120-277V;

E= 120-347V

***3: Metal Armor**

None = Polycarbonate Enclosure with UV Stabilizer;

K = Supplemental Painted Aluminum Armor

***4: IP protection**

IP65 = Complete Sealing with Silicone Gasket;

IP67 = Full Sealing with Silicone Gasket and Pin protection.

***5: Enclosure Color**

A = Red;

B = Orange;

C = Yellow;

D = Green;

E = Brown;

F = Blue;

G = Violet;

H = Black;

I = Auburn;

J = White;
K = Gray
L = Maroon;
W = Clear

***6: Constant On/Off Level**

xxx, in Lux

***7: Turn Off Time Delay**

xx, in second

***8: Midnight Dimming Level**

Dxx, in percentage of Constant On/Off level [N/A to JL-241C]

***9: Midnight Dimming Time**

Lxx, in percentage of night time [N/A to JL-241C]

3. Technical Data

Rated Voltage	110-277VAC, 50/60Hz
Applicable Voltage Range	90-305VAC, 50/60Hz
Rated Loading	1000W Tungsten, 1800VA Ballast, 5A e-Ballast
Power Consumption	1.2W Average
Typical On/Off Level	50 Lux
Typical Time Delay	10 Sec
Typical Surge Protection	640 Joule / 40000 Amp
Typical IP Protection	IP65
Dielectric Strength	5000 Vrms
Ambient Temp.	-40 ~ +70 °C
Related Humidity	99%
Overall Size	84 (Dia.) x 86mm
Weight Approx.	200 gr

Features

Constant On/Off Dimming *Standard program for LED output keeping the field lit with constant lighting level, in accordance with the natural sunlight level detected. When the natural lighting is higher than 110% of the rated level, hot line will be disconnected to keep LED fixture as zero consumption*

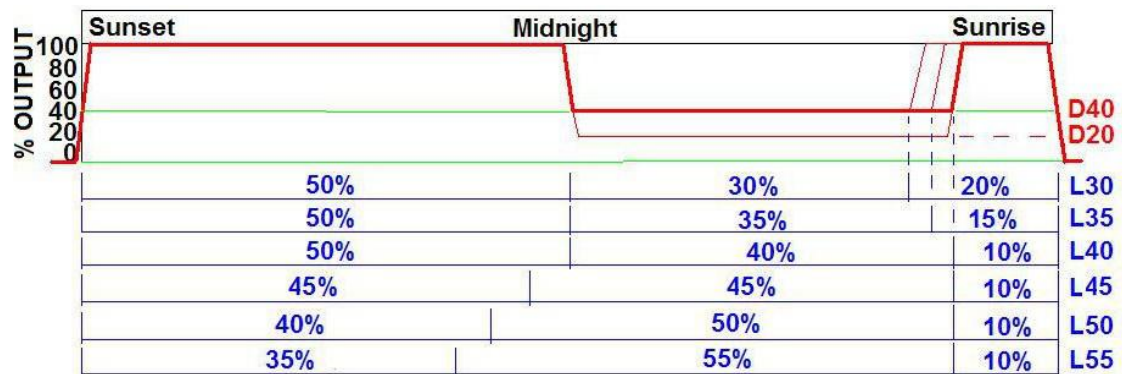
Available with JL-241C, JL-242C and JL-243C.



Midnight Dimming *Standard program for LED output lowered to a customized percentage to save*

power after midnight until about 1 hour before dawn time, as well as reduce light pollution to environment.

Available with JL-242C and JL-243C.



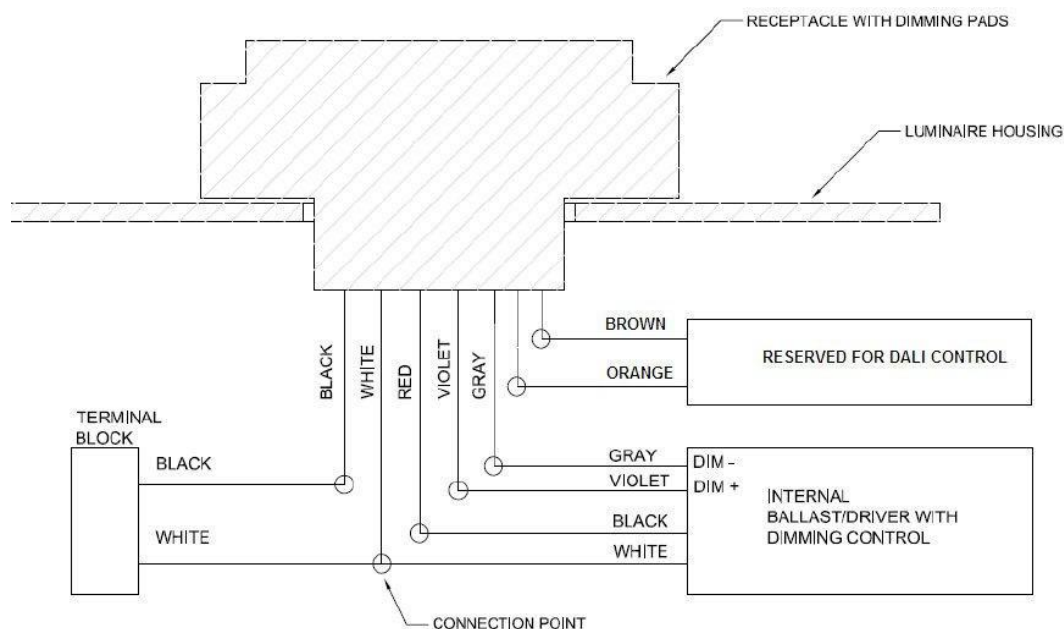
4. Installation & Operational Instructions

Disconnect power; wire the color coded receptacle according to the diagram below.

Push the photocontroller on and twist it clockwise to lock it into the receptacle.

Install the photocontroller with the Photocell facing the NORTH direction as indicated on the top of the photocontroller.

Adjust the receptacle position if necessary.



5. Initial Testing

It is normal for the SWITCH to take several minutes to turn off when first installed.

To test “turn on” during daytime, cover its eye with sliding the metal strip mounted.

Do not cover with finger because light traveling through fingers may be great enough to keep the switch open.

Test will take approximately 2 minutes.