

JL-251/252/253

Twist-Lock Intelligent Photocontrol



Product Summary

The dimming photocontrol JL-251/252/253 series is applicable to control the dimmable LED street lighting (0~10V) automatically in accordance with the ambient natural lighting level.

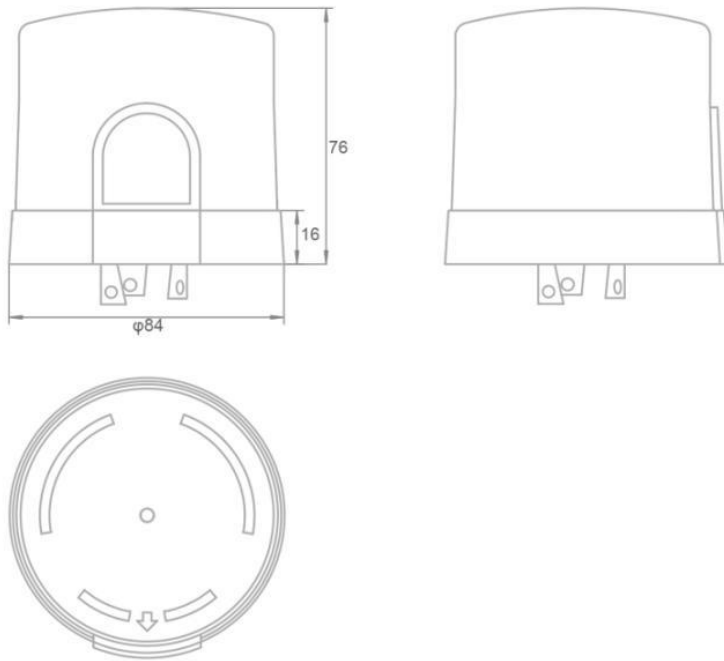
This product is designed with microprocessor circuits with IR-filtered phototransistor.

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.

It provides constant reliability as the relay has sufficient work life of over 10,000 cycles, and offers extra long work life when a sandwich cover option is applied together.

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



Features

- ANSI C136.41 Twist-lock
- DALI Dimming
- MOV 40kA Surge Arrester Built-in
- Optional Sandwich cover for Long Life
- Multi-Volts Application
- IP65 Ready / IP67 Optional
- IR-filtered Phototransistor
- Constant On/Off Dimming
- Midnight Dimming (JL-252、 JL-253)
- LED Decay Compensation (JL-253)

Sequence diagram

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



Specifications

Model No.	JL-251C	JL-252C	JL-253C
Rated Voltage	120~277VAC		
Applicable Voltage Range	105~305VAC		
Rated frequency	50/60Hz		
Dimming Output	DALI		
Spectral Acquisition Range	350~1100nm; Peak wavelength 590nm		
Rated Loading	1000W Tungsten, 1800VA Ballast, 8A e-Ballast @120VAC/ 5A e-Ballast @208-277VAC		
Operate Levels	Turn-On < 100Lx, Turn-Off > 100Lx / per client request		
Typical Time Delay	5s		
Ambient Temperature	-40°C ~ +70 °C		
Related Humidity	96%		
Fail Mode	Fail-On		
Shell material	PC+PC		
High protection	Double Shell		
Lightning Protection	4KV/2KA		
Surge protection	MYL1-40K511		
IP level	IP67		
Factory Settings	Illuminance/Delayed	Illuminance/Delayed/Reduction Duration	

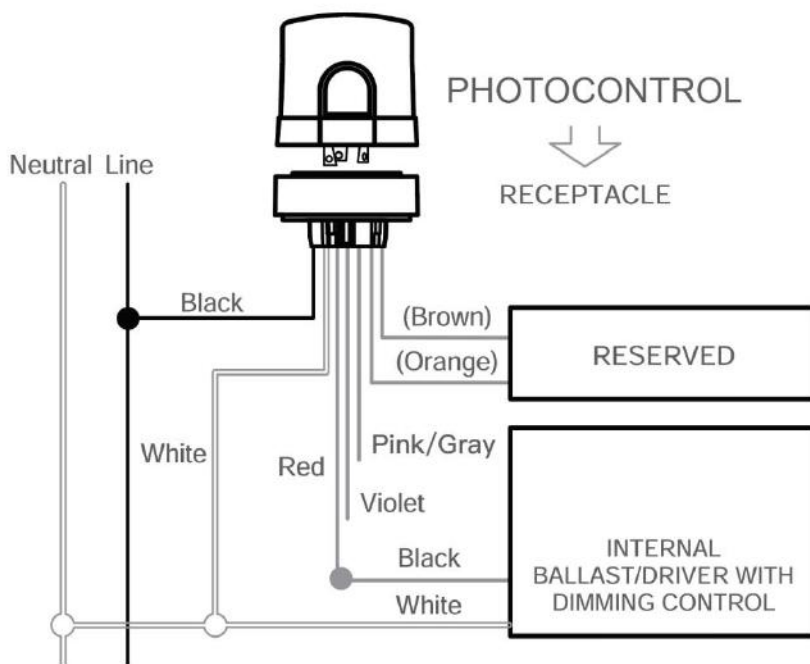
	Customizable	Customizable
Certifications	  	

Installation

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

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

Adjust the receptacle position if necessary, to ensure the Photocell facing the NORTH direction as indicated on the top of the photocontrol.



Initial Testing

- The Photocontrol turns off immediately when initially installed.
- To test “turn on” during daytime, cover its eye with opaque material.
- Do not cover with finger because light traveling through fingers may be great enough to keep the Photocontrol off.
- photocontrol test will take approximately 2 minutes.

* Operation of this Photocontrol is not affected by weather, moisture or temperature changes.

Ordering Information

JL-251C 4 P F -IP67

	1	2	3	4	5
JL-251	C	4	P	F	IP67

1: C=120-277VAC

E=347VAC

F=480VAC

2: 4 = Fail-Off

5 = Fail-On

3: P = PP cover

K = PC+PC sandwich cover

4: F = Blue

Customizable

5: IP65 = Silicon sealant + Thermalplastic Elastomer gasket

IP67 = Full Silicon sealant +Silicon gasket

JL-252C 4 P F -IP67 (100-05-D50-L40)

1	2	3	4	5	6	7	8	9	10
JL-252	C	4	P	F	IP67	100	05	D50	L40

1: JL-252

JL-253

2: C=120-277VAC

E=347VAC

F=480VAC

3: 4 = Fail-Off

5 = Fail-On

4: P = PP cover

K = PC+PC sandwich cover

5: F = Blue

Customizable

6: IP67 = Full Silicon sealant + Silicon gasket

IP65 = Silicon sealant + Thermalplastic Elastomer gasket

7: Constant On/Off Level: XXX, in Lux

8: Time Delay: XX, in second

9: Dimming Percentage: DXX

10: Dimming Period: LXX