

## TWIST-LOCK ELECTRONIC TYPE PHOTO CONTROL

### MODEL: LT154E

#### INTRODUCTION

LEAD TOP's High Voltage photocontrols were designed for the demands of HID and solid-state lighting (SSL), making them an excellent choice for LED, conventional & Electronic HID, and Induction luminaires.



#### APPLICATIONS

- LED luminaires that require dusk to dawn control.
- Recommended for luminaires that use solid state ballasts/drivers (e.g. CFL, Induction, Electronic HID).
- LED, HID, Induction, Fluorescent or Halogen Systems; Roadways; Street Lighting; Parking Lots; Security Lighting.

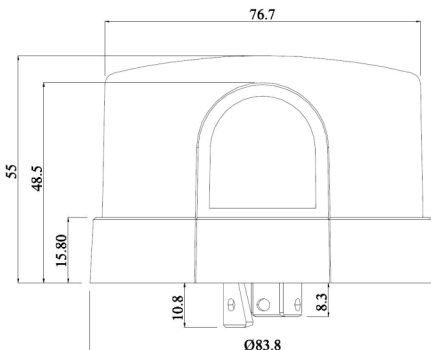
#### FEATURES

- 347-480V Multi-Volt Available
- Zero-Crossing Detection
- Design Life Enhancements
- High Inrush Current Protection
- Meets or exceeds ANSI C136.10.
- ROHS compliant.
- Manufactured according to ISO certificate.
- IR Filter Phototransistor.
- FR4 fiberglass printed circuit board.
- Sealed relay.
- MOV rated for 640 Joules (can upgrade to 1280 Joules)
- 3-10 second turn-off delay.
- Yellow cover standard. Other colors optional.
- IP65, optional IP66 and IP67
- 3.0mm Thickness Cover

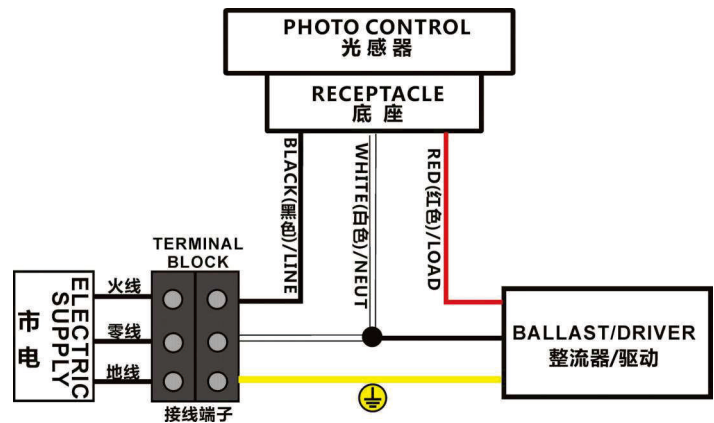
#### TECHNICAL SPECIFICATION

Standard	ANSI C136.10 & UL773
Rated Volts	347-480V (Applicable: 312-528V)
Frequency	50-60 Hz
Rated Load	1800W/1800VA 5A E-BALLAST
Turn-On Light Levels	10-16 Lux
ON/OFF Ratio	1:1.5
Time Delay	3-10 Seconds
Operating Temperature	-40°C to +70°C
Switch	> 10000 ON/OFF Operations at Rated Load
Ingress Protection	IP65 (Optional: IP66/IP67)
Surge Protection	640 Joules
Light Sensor	IR Filter Phototransistor
Cover	Anti-UV Impact Resistance Polypropylene
Base	High Temperature Resistance Polybutylene Terephthalate (PBT)
Fail Mode	OFF (Optional: ON)

## DIMENSION



## WIRING DIAGRAM



## PRODUCT DETAILS:

- 1) Photocontrol: Shall be a Twist Locking Type and meet or exceed all requirements of ANSI C136.10 .
- 2) For standard photocontrols, the cover color will be black cover or are available as specified by customer.
- 3) Line voltage: 347-480VAC @ 50/60HZ.
- 4) Load rating: Shall be at least 1800VA. Control must be able to operate incandescent, ballast, LED and lighting contractor type loads.
- 5) Control relay: Shall be sealed.
- 6) Turn ON: Shall be 10-16 LUX and Turn OFF shall be 1.5 times the turn ON level as standard configuration.
- 7) Time delay: Control must have instant ON and 3-10 seconds "OFF" delay as standard configuration.
- 8) Programmable as specified by customer for Time Delay, Turn ON/OFF level and ON/OFF ratio.
- 9) Zero-Crossing Detection protects against high In-Rush currents, particularly found in LED Luminaries.
- 10) Photo sensor: Sealed silicon sensor. Cadmium sulfide cells are not acceptable.
- 11) Surge protection: Shall be in the form of two Metal Oxide Varistor (MOV) wired line to neutral. MOV shall be rated a minimum of 640 joules and 6000-amp surge. Finished control shall not fail when subjected to 10 surges of 6000 amps applied at 1-minute intervals. Surge wave form as described in ANSI C136.10-2017 section on Enhanced Surge.
- 12) Housing: Shall be blue of an impact and UV resistant Polypropylene material @ 3.0mm thickness.
- 13) Drop test: Control must withstand a drop of 1 m to a concrete floor without causing damage to the housing or changing electrical operation.
- 14) Markings: The following must appear on the control: month/year of manufacture, individual serial numbers, model description, operating voltage range and load rating.
- 15) Design life is period of time that the product is expected to work within its specified parameters; LT154E is rated for 90,000 hours. Printed circuit board is fiber-glass/epoxy FR4 for superior strength and moisture resistance.
- 16) Environmental: Shall be RoHS compliant. It shall not contain lead, cadmium, mercury or hexavalent chromium. Pigments in plastic parts shall not contain bromine compounds or heavy metal pigments.