

# LODESTAR



**INSTALLATION AND MAINTENANCE MANUAL (IMM)**

**PLC**  **Multipoint**

1. Description

The LODESTAR Standalone Twist-lock Controller is designed to provide basic control for outdoor lighting. A "set it, and forget it" solution. Set at the factory and adjustable in the field, LODESTAR provides an easy way to reduce energy expenses through the use of daylight sensing technology.

Each device has three selectable dimming levels (30%, 50%, or 70%) with three different start times (10:00pm, 12:00 midnight, or 2:00 am) which are configurable through the 10-position selector switch on the bottom of the device. Simply plug LODESTAR into an existing NEMA C136.41 twist-lock dimming receptacle, and the advanced algorithm automatically adjusts for local time synchronization and daylight savings.

2. Technical Data

LODESTAR Works with any ANSI C136.41 receptacle to provide dimming of LED fixtures that support 0-10V dimming.

**Dimming Photocontrol Electrical Information**

Electrical Circuit	Blind to artificial light	<0.5% Drift over 10 Years
Load Rating	1000 Watt / 1800 VA	15 Amp relay tested to 15,000 operations on maximum available LED or induction load
Operating Voltage	103-305 VAC, 50/60 Hz	
Operating Temperature	-40°F to +158°F	
Surge Protection	40,000 Amps	1520 Joyle MOV protection
Power Consumption	<0.5 Watts	@ 120V
Dielectric Strength	5000 Volts	Between current carrying parts

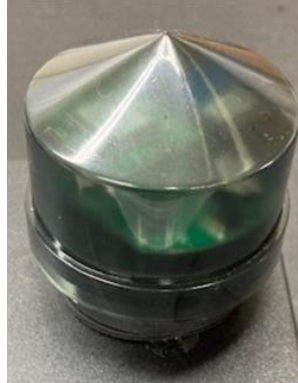
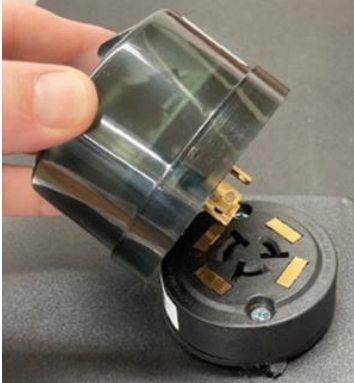
**Dimming Photo Control Mechanical Data**

Printed Circuit Board	Moisture Repellant Glass Epoxy	0.35 Maximum Moisture
Cover	Durable Polypropylene	Field Proven Optimal Solution for Ultra Long Life
Base	Polycarbonate 140°C	UL94HB Flame Class Rating
Gasket	Neoprene	ATSM D 1056
Operating Light Levels	Turn-on: 1.5 FC, 1.5:1 Off/On Ratio	+/- .25 FC, 3-5 Sec. Turn-off Delay

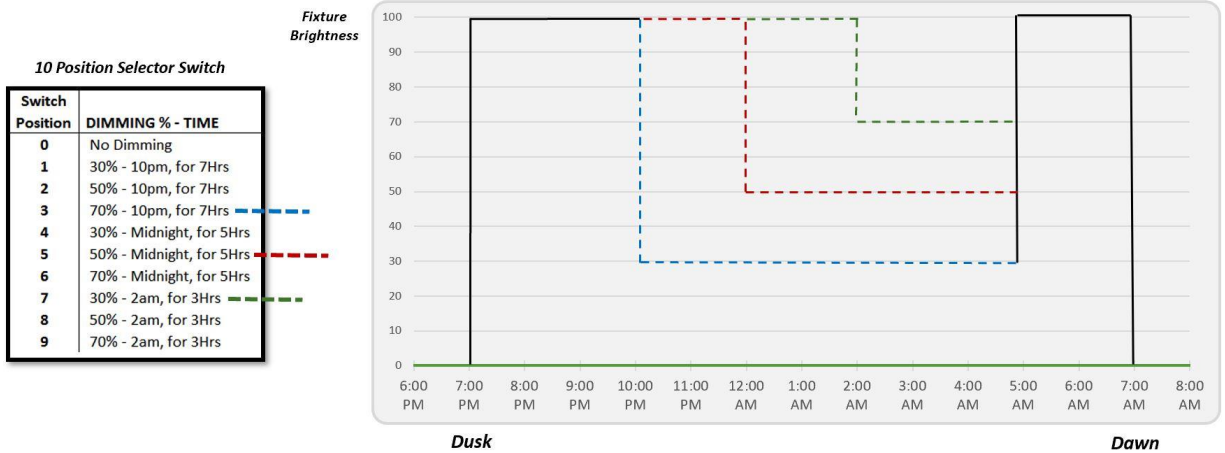
**NOTE:** LODESTAR Twist-lock Controllers have three selectable dimming levels (30%, 50%, 70%) with three different start times (10:00 pm, Midnight or 2:00 am). These options are configurable using the ten-position selector switch located at the base of the unit. All dimming schedules will return to full brightness at 5:00 am.

### 3. Installation

Install the photocontroller as shown in an orientation such that the unit is exposed to normal ambient daylight only. If the lighting fixture does not include a NEMA socket, contact PLC Multipoint for alternative installation options. The photocontroller is weatherproof and will automatically adjust to available daylight.



### 4. Settings



### 5. Maintenance

No Maintenance is required

For technical support, call PLC Multipoint at 425-353-7552 or email [technicalsupport@plcmultipoint.com](mailto:technicalsupport@plcmultipoint.com)