

## Photocontrol - NIGHTFOX Wall Mount Electronic Photocontrol, 120-277 V

Item EK4336S



### PRODUCT DESCRIPTION

NIGHTFOX electronic photocontrols permanently install on standard single-gang in-wall boxes. Standard wall plate included. Ideal for LED fixtures with long-life expectations.

### FEATURES

- ▶ Non-drift silicon light sensor with IR filter
- ▶ DC relay with zero-crossing circuitry for extended life
- ▶ Conformal coated PCB
- ▶ 15-year design life
- ▶ Exceeds 10,000 ON/OFF switching cycles
- ▶ Fail ON mode
- ▶ Ideal for single or multifixture HID and LED installations (up to 1,650 W @ 277 VAC)
- ▶ 255 J MOV surge protection element
- ▶ Fits standard single-gang in-wall electrical boxes
- ▶ Wall Plate is included

### APPLICATIONS

- ▶ Outdoor Lighting Control

### TECHNICAL DATA

#### General

Model Number	EK4336S
Description	NIGHTFOX Wall Mount Electronic Photocontrol, 120-277 V
UPC Code	078275148314
Brand	Intermatic
Country of Origin (Intermatic)	MEXICO
Warranty Period	8-Year limited

#### Control Specifications

Sensor Time Delay	Instant ON; 2 sec to 5 sec OFF
Photocell Type	Silicon Diode
Photo Control Switch Type	Relay
Fail Mode	ON
Activation On	1.5 fc
Activation Off	4.5 fc
Photocontrol Type	Electronic
Application Compatibilities	LED; Incandescent; HID
Photocontrol Style	In-Wall
Photocontrol Sensor Location	Front

#### Dimensions

Product Height (in)	2.25
Product Height (mm)	57.2
Product Width (in)	1.313
Product Width (mm)	33.3

Product Depth (in)	1.25
Product Depth (mm)	31.8
Wire Lead Length (in)	6
Wire Lead Length (mm)	152.4
Wire Size Max	#18 AWG

#### Material Specifications

Color	Gray
Cover Color	Gray
Housing Material	Polycarbonate

#### Load Ratings

Tungsten Range(s)	1000 W
Ballast Fluorescent Ranges	1800 VA
Electronic Ballast Load Ratings Ranges	6 A, 120-277 VAC, 50/60 Hz

#### Electrical Specifications

Wiring Option	Wire leads
Input Voltage Range(s)	120-277 VAC, 50/60 Hz (Nominal Voltage)
Operating Voltage Range(s)	102-305 VAC
Surge Protection Technology	255 J MOV, 5,000 A Surge

#### Packaging

Shipping Weight (lbs)	0.4
Unit Carton Dimensions (H x W x D) in	4.875 x 3.063 x 1.75 in

#### Operating Specifications

Expected Lifetime (Years)	15
Expected Lifetime (Operations)	10000

#### Environmental Specifications

Temperature (operation)	-40°C..70°C
Usage Environments	Outdoor

#### Standards and Certifications

UL Certification	cULus
Other Certifications and Compatibilities	Title 20; Ansi C136.24; Green Energy +
California Proposition 65	DEHP
RoHS Certification	Y

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## ACCESSORIES



6LV1352  
Light Shield Accessory for EK4036S, EK4436SM, K4000 Series Button Photocontrols



K43-WP-KIT  
Wall Plate Kit for EK4036S, K4000 Series Button Photocontrols

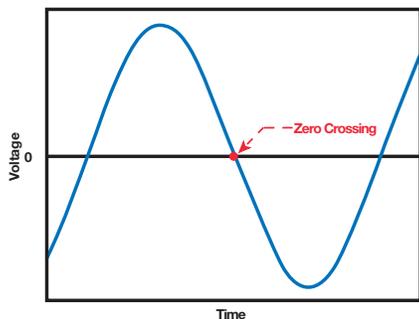


LGLBL  
Lens Sticker Accessory for EK4000 & K4000 Series Photocontrols



# Zero-Crossing Technology Drives Long-Lasting Intermatic Solutions

Ensure your next lighting installation is designed to last for the long haul with reliable lighting controls from Intermatic. Select Intermatic timers, photocontrols and occupancy sensors include innovative zero-crossing technology, which helps minimize the damaging effects of high inrush current events.



## What is Zero Crossing?

Zero Crossing refers to the relay switching technology found in a variety of high-performance Intermatic controls. These models are designed to trigger load switching when AC voltage passes the zero mark rather than when operating current is near its peak.

Without this built-in technology, lighting controls can face severe high inrush transients that are up to 100 times the recommended operating level. Over time, this can damage or even completely destroy controls.

## Key to Preventing Damage

Zero-crossing technology helps lighting controls match the long lifespan of new LED lighting systems. By taking a proactive approach and confirming lighting controls are compatible with LED bulbs, you can avoid maintenance issues and unexpected replacement costs down the road.

## Finding the Right Match

Intermatic has a strong lineup of LED-rated controls that are UL-certified and designed to fit a wide range of applications. From outdoor billboards and parking lot lights to indoor offices and hydroponic applications, our zero-crossing solutions have you covered.

## MEET OUR TEAM OF ZERO-CROSSING SOLUTIONS

### ET2000 Series Basic+ Electronic Time Switches:

The ET2000 Series offers an easy-to-use interface and detailed scheduling options to match nearly any application. With up to 96 ON/OFF events and 50 holiday blocks, it's a robust digital control that fits seamlessly into existing Intermatic enclosures. The unit's 100-hour capacitor also helps safeguard against power outages.

### NightFox™ Pro Series:

Balancing efficiency, durability and functionality, NightFox Pro Series provides municipalities, utilities and co-ops a new level of customization with photocontrols. Tested at full load to 5 k, 10 k, and 15 k ON/OFF cycles with NEMA 410 inrush load abilities, they help meet a wide variety of application needs and budgets without sacrificing quality. They're a top-level photocontrol solution that's tested and warranted to match the life expectancy of LED fixtures.

### NightFox™ Series:

Similar to the NightFox Pro Series, standard NightFox Series photocontrols are designed to match the long life of LED and induction lighting fixtures. They come with a 10- to 20-year service life expectancy and include solid-state light sensors and relays that feature zero-crossing technology for more

precise control. Locking type models in two voltage ranges, 120-277 V or 347-480 V, which makes it easy to accommodate any power supply configuration.

### talento smart™ Time Switch:

The new talento smart product family was developed with electricians at its core. Its compact DIN rail design streamlines the installation process while Bluetooth® connectivity and the intuitive talento smart mobile app makes it easy to save time programming the device. Zero-crossing technology, 365-day scheduling and automatic Astronomic dusk-to-dawn functionality, it's the perfect digital time switch to manage energy costs in both commercial and residential settings.

### Commercial Grade Occupancy Sensors

Intermatic Commercial Grade Occupancy Sensors help installers save on energy costs while adding a level of convenience and security to all types of facilities. Choose from both in-wall and ceiling mount styles, as well as PIR or Dual Technology solutions, to match your project's needs. Our Occupancy Sensors are compatible with incandescent, fluorescent, CFL and LED fixtures, and include zero-crossing technology to maximize the lifespan and performance of fixtures.

- In-Wall Mount Models: IOS-DSR/DOV/DDR, IOS-DOV-DT-WH
- Ceiling Mount Models: IOS-CMP-DT-U, IOS-HB-U, IOS-CMP-U

Contact your Intermatic sales representative today to learn more about our full catalog of zero-crossing solutions.



# NightFox™ Series Electronic Photocontrols

## LED Compatible Photocontrols



## Say Goodnight to LED Photocontrol Maintenance

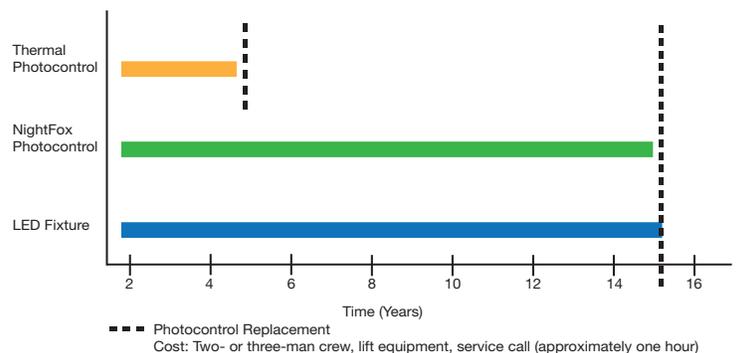
### Make a Smart Investment

Choosing premium NightFox Photocontrols save owners 3-4 maintenance trips to the fixture, when compared to traditional photocontrol options. Make the switch to NightFox Electronic Photocontrols and stay worry-free with LED.

### Key Features

- **Universal Compatibility** – NightFox Photocontrols are designed, tested and warranted to match the long 8- to 15-year lifespan of LED fixtures. They're also backwards compatible with all traditional light sources (e.g., HID, Incandescent) and compatible with all service voltages (105-305 VAC).
- **Lower Maintenance Costs** – A long-life design allows installers to sync photocontrol and fixture maintenance schedules, resulting in fewer nuisance service calls and lower equipment costs.
- **Superior Technology** – Built-in zero-crossing technology with high-precision calibration, as well as industry-leading manufacturing processes, helps ensure each photocontrol has a lifespan of 10- to 20-years.
- **Faster Installation** – Verify functionality of newly-installed controls in seconds by covering the sensor (unlike thermal controls which have a delayed ON/OFF trigger).
- **Long-Life Warranty** – All electronic photocontrols are backed by an 8- to 12-year warranty.

### Thermal vs. NightFox Photocontrol Replacement with 15-Year LED Fixture



### The Hidden Cost of Photocontrol Maintenance

Pairing an LED fixture with a thermal photocontrol requires installers to make extra trips to the light fixture just to replace the photocontrol.

Under ideal conditions, a thermal photocontrol will last just 3-5 years, requiring at least one extra replacement during the life of a typical LED. Often, replacement is required more frequently due to premature failure caused by the high inrush currents of LED drivers.