

# NightFox™

## Electronic Photocontrol – Pro Series

Customize our locking type photocontrols to meet your municipality, utility or co-op's specifications.



# Customizable, budget-friendly, and maintenance-free NightFox™ Pro Series Photocontrols.



Installing LED light fixtures that maximize the benefits of reduced maintenance and greater energy efficiency require photocontrols that are equal to the task. High-current transients and inrush currents can have a negative impact on LED luminaires.

As a leading manufacturer of photocontrols, Intermatic understands the technology needed to meet today's lighting specifications. We pioneered a comprehensive testing approach that took the best information from NEMA 410 and UL standards, and combined them into a photocontrol testing methodology that ensures a maximized ROI. This testing gives us the confidence to back our products with up to 12-year extended product warranties.

NightFox™ Pro Series Locking Type Photocontrols are designed to match the long life of LED and induction lighting fixtures with a 10- to 20-year service life expectancy. This allows full realization of both the cost savings and benefits of maintenance-free lighting installations.



# Why compromise?

## Intermatic can customize to your exact need.

Many municipalities, utilities and co-ops have already developed specifications based on their best practices, knowledge of what works best for them, and particular needs. With the NightFox™ Pro Series portfolio, there's no need to compromise on what you want or need.

We'll build our photocontrols according to your specifications.

NightFox™ Pro Series Locking Type Photocontrols enable simple and reliable dusk-to-dawn, ON/OFF control of outdoor lighting applications, including street lighting, parking lots, pedestrian pathways and athletic facilities.



- 10- to 20-year design life
- Tested to full ON/OFF lifecycles under LED and induction loads per NEMA 410
- Tested up to 15,000 life cycles
- Up to 12-year warranties
- 120-277 or 347-480 voltage ranges
- Zero-crossing electronic circuitry minimizes the impact of inrush current
- Conformal coated PCB assemblies
- Non-drift silicon light sensor with IR filter
- Enhanced customizable surge protection with up to 1020 J MOV components
- Meet or exceed ANSI C136.10 and UL/CSA requirements
- Fail ON or Fail OFF options
- North-facing or omni-directional light sensor location options
- Nine ANSI C136.10 color-coded covers available
- NEMA 3 or IP67 enclosures
- ON/OFF from 1.0 to 8.0 foot-candle activation levels for overall energy saving potential

# Available custom options for NightFox™ Pro Series Locking Type Photocontrols.

**Model Series** — Choose the base model that best meets the application.

**Standard Grade** – 6-year limited warranty, 10-year life expectancy, 2 A LED driver rating, 5,000 plus ON/OFF switching cycles

**Select Grade** – 10-year limited warranty, 15-year life expectancy, 6 A LED driver rating, zero-crossing technology, 10,000 plus ON/OFF switching cycles

**Specifier Grade** – 12-year limited warranty, 20-year life expectancy, 8 A LED driver rating, zero-crossing technology, 15,000 plus ON/OFF switching cycles

**Configuration** — Select the enclosure type and sensor mount location.

**NEMA 3 or IP67 Enhanced Water Ingress Protection Enclosure** – As a standard, our photocontrols meet UL requirements for a raintight enclosure, which is equivalent to a NEMA Type 3 enclosure rating. For areas exposed to high humidity, harsh weather conditions or near bodies of water, the water ingress protection of the photocontrol can be increased to IP67.

**North-Facing Light or Omni-Directional Sensor Location** – Typical North American applications utilize photocontrols with side-mounted sensors that lend themselves to north-facing orientation. In other parts of the world, it is more common to have an upwardly pointing sensor that does not require a particular orientation. We offer both options.

**Voltage Ratings** — Two voltage ranges, 120-277 V or 347-480 V, accommodate any supply power configuration.

## Fail Mode

**Fail ON** – When set to Fail ON, a light will remain on until serviced if the photocontrol fails. This is preferred for areas that need to ensure an area stays lit for safety and security.

**Fail OFF** – This option turns a light off to avoid wasted burn time if a photocontrol should fail.

**5 Load Ratings** — NightFox™ Pro Series Photocontrols are tested to full ON/OFF lifecycles under tungsten, magnetic ballast and electronic ballast/LED driver loads. Load rating is based on model series.

**6 Select ON and OFF Light Activation Levels** Fine-tuning the times lighting turns ON and OFF significantly reduces annual burn hours and helps save on energy costs. While ANSI136-10 guideline specifies 1.5 fc ON/2.25 fc OFF, there may be instances where a higher light level is required for proper illumination. Cities on a bay compared to the Midwest, or in rural versus urban environments, experience different levels of darkness, weather conditions, and cloud cover. Customizing ON/OFF levels allows the photocontrol to meet the lighting technology and pre-established specifications. This ensures you achieve savings, whether using HPS with 10- to 15-minute warm up periods or instant-start LED lamps.

We make it possible to adjust the activation level from 1.0 to 8.0 foot-candles with any ON/OFF ratios:

- Parity or a 1:1 ratio turns lights ON and OFF at the same value
- Negative ratio turns lights OFF at a lower value than turn ON
- Normal ratio turns lights OFF at a higher value than turn ON

**7 Surge Protection** — All photocontrols feature 510J MOV surge protection per ANSI136.2-2015 standards. For applications in need of a higher level of protection, we can incorporate 1020J MOV.

**8 Cover Colors** — NightFox™ Pro Series Photocontrols feature customizable colors to denote voltages per ANSI C136.10 standard guidelines or to meet other preferences.

**9 Packaging** — We can deliver the quantities you need according to your replacement schedule.

# Available custom options for NightFox™ Pro Series Locking Type Photocontrols.

## Model No. Key for Customizing an Order

1	Model Series	ELC – Standard	EK – Select	LED – Specifier
				
2	Configuration	45 – NEMA 3, North-Facing Light Sensor	65 – IP67, North-Facing Light Sensor	
		48 – NEMA 3, Omni-Directional Light Sensor	68 – IP67, Omni-Directional Light Sensor	
3	Voltage Ratings	36 – 120-277 V		37 – 347-480 V
4	Fail Mode	Blank – Fail ON		F – Fail OFF
5	Load Ratings	Blank or S – 1000 W Tungsten / 1800 VA Ballast / x A Electronic depending on base model series ratings		
6	ON/OFF Light Activation Levels	10 – 1.0 ON/ 1.0 OFF		30 – 3.0 ON/ 3.0 OFF
		11 – 1.5 ON/ 1.0 OFF		31 – 3.0 ON/ 1.5 OFF
		14 – 1.5 ON/ 4.5 OFF		35 – 3.0 ON/ 5.0 OFF
		20 – 2.0 ON/ 2.0 OFF		50 – 5.0 ON/ 5.0 OFF
		21 – 2.0 ON/ 1.0 OFF		51 – 5.0 ON/ 2.5 OFF
		23 – 2.0 ON/ 3.0 OFF		70 – 7.0 ON/ 7.0 OFF
7	Surge Protection	Blank – 510J/10 kV/5 kA		W – 1020J/20 kV/10 kA
8	Cover Colors	B – Blue G – Green N – Brown K – Black A – Gray O – Orange M – Maroon Y – Yellow		
				
9	Packaging	L – Bulk Pack (24 pieces/box)		

\* Omni-directional sensors require our transparent/translucent white cover.

## Example Model EK 45 36 F 30 W G L

	1	EK – Select grade base model
	2	45 – NEMA 3 enclosure with north facing light sensor location
	3	36 – 120-277 V
	4	F – Fail OFF
	5	Blank – 6 A LED driver rating
	6	30 – 3.0 fc ON/3 fc OFF
	7	W – 1020J MOV
	8	G – Green
	9	L – Bulk Pack

Contact your Intermatic sales representative to discuss how we can meet your lighting upgrade specifications.

Lighting Controls | Surge Protection | Weatherproof | Photocontrols | Timers | Defrost/Refrigeration Controls

**Intermatic Incorporated**

7777 Winn Road  
Spring Grove, IL 60081  
(815) 675 7000

©2017 Intermatic 300KP10064



[Intermatic.com](http://Intermatic.com)

