

NIGHTFOX

Electronic Photocontrol – Pro Series

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



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 cULus requirements
- Fail ON or Fail OFF options
- North-facing or omni-directional light sensor location options
- ANSI C136.10 color-coded covers available
- Raintight or IP66 enclosures
- ON/OFF from 1.0 to 7.0 foot-candle activation levels for overall energy saving potential

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.



Available custom options for NIGHTFOX Pro Series Locking Type Photocontrols.

1 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

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

Raintight or IP66 Enhanced Water and Dust

Ingress Protection Enclosure – As a standard, our photocontrols meet UL requirements for a raintight enclosure rating. For areas exposed to high humidity, harsh weather conditions or near bodies of water, the ingress protection of the photocontrol can be increased to IP66.

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 upward pointing sensor that does not require a particular orientation. We offer both options.

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

4 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 ANSI C136.10 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 7.0 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 are surge protected per ANSI C136.10. A 510J MOV is standard. For applications in need of a higher level of protection this can be increased to 1020J.

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.

Model No. Key for Customizing an Order

1	Model Series	ELC – Standard	EK – Select	LED – Specifier
				
2	Configuration	45 – Raintight, North-Facing Light Sensor 48 – Raintight, 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	1000 W Tungsten / 1800 VA Ballast / x A Electronic Ballast depending on base model series ratings		
6	ON/OFF Light Activation Levels	10 – 1.0 ON/ 1.0 OFF 11 – 1.5 ON/ 1.0 OFF 14 – 1.5 ON/ 4.5 OFF 20 – 2.0 ON/ 2.0 OFF 21 – 2.0 ON/ 1.0 OFF 23 – 2.0 ON/ 3.0 OFF 30 – 3.0 ON/ 3.0 OFF 31 – 3.0 ON/ 1.5 OFF 35 – 3.0 ON/ 5.0 OFF 50 – 5.0 ON/ 5.0 OFF 51 – 5.0 ON/ 2.5 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) J- Bulk Pack (50 pieces/box) U- Bulk Pack (100 pieces/box)		

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

Example Model EK 45 36 F 30 W G L

	1	EK – Select grade base model
	2	45 – Raintight enclosure with north facing light sensor location
	3	36 –120-277 V
	4	F – Fail OFF
	5	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 (24 pieces/box)

Contact your local Intermatic sales representative for additional options and to discuss how we can meet your lighting specifications.

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

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