



INTERMATIC INC
MADE IN MEXICO
LED4536SC

120-277VAC, 50/60 Hz.
ELECTRONIC BALLAST 8A (LED)
1000 W TUNGSTEN
1800 VA BALLAST

INSTALL



REMOVE

120-277V

120-277V

Photocontrols

Intermatic photocontrols provide simple and reliable dusk-to-dawn, ON/OFF control of outdoor lighting applications, such as street, parking lot, pedestrian pathway, and landscape lighting. Our product offering features traditional thermal switch photocontrols for traditional HID and incandescent lighting loads; and extended life electronic photocontrols that are ideally suited for long life LED and induction lighting applications. Intermatic's photocontrol line includes a full range of fix mount and twist lock configurations, making them a great solution for a wide variety of applications.

Contents

Overview	82
Fixed Mount Thermal	83-84
Twist Lock Thermal	85
Fixed Mount Electronic	86
Twist Lock Electronic	87

Intermatic, a well-established, leading supplier of photocontrols, provides lighting controls that best meet your needs and budget. Our comprehensive portfolio includes:

Traditional Thermal Switch Photocontrols

Thermal Photocontrols are electromechanical switches that are based on a Cadmium Sulphide (CdS) photosensor and a bimetallic, thermally sensitive switch mechanism. These simple switches provide a very cost-effective means for dusk-to-dawn control of traditional HID and incandescent lighting loads. In traditional installations, Intermatic photocontrols match the life of the lamp, helping to avoid extra maintenance costs.

- **Low Initial Cost**
- **3 to 5-Year Design Life**
- **1 to 2-Year Product Warranty**

Electronic Photocontrols

Today's long-lasting lighting installations require lighting controls that are equal to the task. Our Electronic Photocontrols meet the extended life expectations of new light fixtures, such as those associated with LED and induction lighting technologies. Electronic photocontrols include a solid-state light sensor and relays that feature zero-crossing technology for more precise control and long service life. These premium photocontrols enable full realization of the cost-saving and productivity benefits of maintenance-free installations.

- **Tested to Ensure 10,000 + ON/OFF Cycles for Maximum ROI**
- **10 to 20-Year Design Life**
- **6 to 12-Year Product Warranty**

Applications

- Street lighting • Perimeter lighting
- Landscape lighting • Parking Lot lighting
- Pathway lighting • Park and Recreational lighting



Testing in Action

Intermatic's electronic photocontrols utilize zero-crossing techniques to suppress the impact of inrush current. Scan your smartphone or tablet over the QR code to see the visible reduction of inrush current when tested in our UL-certified laboratory.



Button and Wall Mount Thermal Photocontrols

K4000 Series

These photocontrols install within lighting fixtures, post lamps, or in-wall boxes to provide dusk-to-dawn ON/OFF control of outdoor lighting.

Features

- Mechanical bimetal switch with Cadmium Sulfide photocell
- Compact size fits into standard outlet box, post lamp, wall pack and other lighting fixtures
- Delay feature prevents unwanted OFF switching
- 3/8" -18 NPSM, 3/4" long stem with locking nut and washer gasket
- K4321C includes weatherproof wall plate and neoprene gasket

Model #	Style	Voltage	Tungsten	Ballast
K4021C	Button	120 V	1800 W	1000 VA
K4023C		208-277 V	3100-4150 W	1700-2300 VA
K4027*		347 V	5205 W	2880 VA
K4035†		480 V	7200 W	4000 VA
	In-Wall	120 V	1800 W	1000 VA

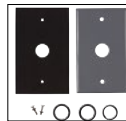
Note: *K4027 is only CSA. †K4035 is not UL/CSA certified.

Accessories

Light Shield	6LV1352
Wall Plate Kit	K43-WP-KIT



6LV1352



K43-WP-KIT



K4021C



K4321C



Ratings	
Operating Voltage	120/208-277/347/480 VAC, 50/60 Hz
Inductive Ballast	8.3 A
Incandescent	15 A
Activation	1 to 5 fc ON, 3 to 15 fc OFF
Operating Temperature	-40° F to 158° F (-40° C to 70° C)
Wire Leads	#18 AWG, 9" L
Dimensions H x W x D	1 13/16" x 1 1/16" x 1 1/16" (46 mm x 23.8 mm x 20.6 mm)
Warranty	2-year limited

Screw-In Lamp Photocontrol

NE1C

This photocontrol screws into a standard light socket to provide quick installation of dusk-to-dawn photocontrol to any lamp fixture.

Features

- For interior or external lights
- ON at dusk, OFF at dawn
- Accommodates any incandescent light up to 150 W

Model #	Style
NE1C	Lamp Screw-In



NE1C



Ratings	
Operating Voltage	120 VAC, 60 Hz
Incandescent	150 W
Activation	1 to 5 fc ON, 3 to 15 fc OFF
Operating Temperature	-40° F to 158° F (-40° C to 70° C)
Warranty	1-year limited



K4121C



K4423M

Stem Mount Thermal Photocontrols

K4100 and K4400 Series

These photocontrols install on standard outdoor light fixtures and electrical boxes with 1/2" threaded or 7/8" punch-out holes for dusk-to-dawn ON/OFF control of outdoor lighting.

Features

- Mechanical bimetal switch with Cadmium Sulfide photocell
- Delay feature prevents unwanted OFF switching
- Plastic and die-cast metal housing options
- 1/2"-14 NPSM threaded stem
- Washer gasket and locking nut included
- #18 AWG, 9" wire leads

Model #	Voltage	Tungsten	Ballast	Housing
K4121C	120 V	1800 W	1000 VA	Plastic
K4123C	208-277 V	3100-4150 W	1700-2300 VA	
K4127*	347 V	5205 W	2880 VA	
K4135†	480 V	7200 W	4000 VA	
	120 V	1800 W	1000 VA	Metal
	208-277 V	3100-4150 W	1700-2300 VA	

Note: *K4127 is only CSA. †K4135 is not UL/CSA certified.



K4221C



K4251

Stem and Swivel Mount Thermal Photocontrols

K4200 Series

These photocontrols are provided with a swivel arm for easy and flexible installation to standard outdoor light fixtures or electrical boxes.

Features

- Mechanical bimetal switch with Cadmium Sulfide photocell
- Delay feature prevents unwanted OFF switching
- High strength, UV resistant plastic housing
- Swivel with 1/2"-14 NPSM threaded stem
- Washer gasket and locking nut included
- #18 AWG, 6" wire leads

Model #	Voltage	Tungsten	Ballast	Sensor Location
K4221C	120 V	1800 W	1000 VA	Side
K4223C*	208-277 V	3100-4150 W	1700-2300 VA	
K4227*	347 V	5205 W	2880 VA	
K4235†	480 V	7200 W	4000 VA	
*	120 V	1800 W	1000 VA	Top
*	208-277 V	3100-4150 W	1700-2300 VA	

Note: *K4223C, K4227, K4251, K4253 are only CSA certified.
†K4235 is not UL/CSA certified.

For all Models Above



Ratings	
Operating Voltage	120/208-277/347/480 VAC, 50/60 Hz
Inductive Ballast	8.3 A
Incandescent	15 A
Activation	1 to 5 fc ON, 3 to 15 fc OFF
Operating Temperature	-40° F to 158° F (-40° C to 70° C)
Wire Leads	#18 AWG, 9" L
Dimensions H x W x D	STEM: 3" x 1 1/16" x 1 1/16" (76.2 mm x 39.7 mm x 39.7 mm) STEM & SWIVEL: 5 1/2" x 1 1/16" x 1 1/16" (139.7 mm x 39.7 mm x 39.7 mm) STEM & SWIVEL (top lens): 4" x 1 3/8" (101.6 mm x 34.9 mm)
Warranty	2-year limited; 1-year for K4251 & K4253

Accessories

Light Guard	22LG116
Swivel Arm	K42-SW-A



22LG116



K42-SW-A



LC4521

Twist Lock Thermal Photocontrols

LC4500 Series

These photocontrols install on light fixtures with ANSI C136.10 NEMA receptacle commonly found on street light fixtures. Twist Lock design facilitates fast installation and replacement of photocontrol.

Features

- Mechanical bi-metal switch with Cadmium Sulfide photocell
- Integral high impact thermoplastic housing
- Twist lock plug for quick installation and changeover
- Delay feature prevents unwanted OFF switching
- Complies with ANSI C136.10 standard
- Tested to 3,650 ON/OFF cycles

Model #	Voltage	Tungsten	Ballast	Protection
LC4521C	120 V	1800 W	1000 VA	None
LC4523	208-277 V	3100-4150 W	1700-2300 VA	
LC4527*	347 V	5205 W	2880 VA	
LC4535	480 V	7200 W	4000 VA	
LC4536C	120-277 V	1800-4155 W	1000-2300 VA	
	120 V	1800 W	1000 VA	2400 V Spark Gap Surge Arrester
	208-277 V	3100-4150 W	1700-2300 VA	
	480 V	7200 W	4000 VA	
	480 V	7200 W	4000 VA	

Note: *LC4527 is only CSA certified.



Ratings	
Operating Voltage	120/208-277/347/480 VAC
Inductive Ballast	8.3 A
Incandescent	15 A
Activation	5 fc ON, 15 fc OFF
Operating Temperature	-40° F to 158° F (-40° C to 70° C)
Dimensions H x Dia	2 3/4" x 3" (69.9 mm x 76.2 mm)
Warranty	2-year limited



LC2100

Low-Cost Multivoltage Twist Lock Thermal Photocontrols

LC2100

This model combines a silicon diode photosensing element with thermal switch to provide a multivoltage, cost-effective photocontrol.

Features

- Mechanical bimetal switch with Silicon Diode photocell
- Thermoplastic housing with window
- Multivoltage covers 120 to 277 VAC applications
- Complies with ANSI C136.10

Model #	Voltage	Tungsten	Ballast
LC2100	120-277 V	1800 W	1000 VA



Ratings	
Operating Voltage	110-277 VAC, 50/60 Hz
Inductive Ballast	1800 VA
Incandescent	1000 W
Activation	1.5 fc ON, 6 fc OFF
Operating Temperature	-40° F to 158° F (-40° C to 70° C)
Dimensions H x Dia	2 7/8" x 3" (56.4 mm x 76.2 mm)
Warranty	1-year limited

For all Models Above

Accessories

Shorting Plug, Rating: 15 A, 480 VAC Max	K4500
ANSI C136.10 Locking type receptacle, (9" lead)	K121
ANSI C136.10 Locking type receptacle, (30" lead)	K121-30
Sealed locking type receptacle with pole bracket	K122



K4500



K121/K121-30



K122



Fixed Mount Electronic Photocontrols

EK4000 Series

These electronic photocontrols permanently install on outdoor electrical boxes, in-wall boxes, or outdoor lighting fixtures. Ideal for LED and new induction 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
- ½"-14 NPSM threaded stem fits standard outlet boxes and wall packs
- Overall dimensions within ANSI C136.24 guidelines
- #18 AWG wire leads



EK4036S



EK4336S



EK4136S



EK4436SM



EK4236S



EK4736S

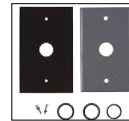
Model #	Type
EK4036S	Button
EK4336S	In-Wall
EK4136S	Stem Plastic
EK4436SM	Stem Metal
EK4236S	Stem & Swivel Side Lens
EK4736S	Stem & Swivel Top Lens

Accessories

Light Shield	6LV1352
Wall Plate Kit	K43-WP-KIT



6LV1352



K43-WP-KIT



Ratings	
Operating Voltage	120-277 VAC, 50/60 Hz
Inductive Ballast	1800 VA
Electronic Ballast	6 A
Incandescent	1000 W
Activation	1.5 fc ON, 2.25 fc OFF
Time Delay	2 to 5 sec
MOV*	255 J / 5,000 A surge
Fail Mode	ON
Operating Temperature	-40° F to 158° F (-40° C to 70° C)
Wire Leads	#18 AWG, 9" or 6" L
Dimensions H x W x D	BUTTON: 2 ¼" x 1 ⅝" x 1 ¼" (57.2 mm x 33.3 mm x 31.8 mm) STEM PLASTIC: 2 ¼" x 1 ⅝" x 1 ¼" (57.2 mm x 33.3 mm x 31.8 mm) STEM METAL: 2 ⅛" x 1 ¾" x 2 ⅜" (68.3 mm x 44.5 mm x 55.6 mm) STEM & SWIVEL: 5 ⅝" x 1 ⅝" x 1 ¼" (142.9 mm x 33.3 mm x 31.8 mm)
Warranty	8-year limited

MOV* Metal Oxide Varistor.



12 YEAR
Limited Warranty

Specifier Grade

LED4536SC

Photocontrol specifically designed for 20-year service to match the life expectancy of long-life LED and new induction fixtures.

Features

- Non-drift silicon light sensor with IR filter
- DC relay with zero-crossing circuitry for extended life
- All components meet 20-year life expectancy
- Conformal coated PCB
- Exceeds 15,000 ON/OFF switching cycles
- Ideal for single or multifixture HID and LED installations (up to 2,220 W @ 277 VAC)
- 510 J MOV surge protection



8 YEAR
Limited Warranty

Select Grade

EK4536

Designed to meet a 15-year service life, this photocontrol is LED-compatible and backed by an 8-year warranty.

Features

- Non-drift silicon light sensor with IR filter
- DC relay with zero-crossing circuitry for extended life
- 15-year design life
- Conformal coated PCB
- Exceeds 10,000 ON/OFF switching cycles
- Ideal for single or multifixture HID and LED installations (up to 1,650 W @ 277 VAC)
- 510 J MOV surge protection



6 YEAR
Limited Warranty

Standard Grade

ELC4536

LED-compatible photocontrol features a 10-year life expectancy. Ideal for single fixture control of smaller LED fixtures that require a cost-effective solution.

Features

- Non-drift silicon light sensor with IR filter
- All components meet over 10-year life expectancy
- Exceeds 3,650 ON/OFF switching cycles
- Ideal for single HID and LED fixtures (up to 550 W @ 277 VAC)
- Power-up ON delay (45-60 sec) for easy installation verification and troubleshooting
- 510 J MOV surge protection



For all Models above



Model #	LED Driver Rating	Warranty
LED4536SC	8 A	12-Year
EK4536	6 A	8-Year
ELC4536	2 A	6-Year

Accessories

Shorting Plug Locking Rating: 15 A, 480 V max	K4500
ANSI C136.10 Locking Type Receptacle, (9" lead)	K121
ANSI C136.10 Locking Type Receptacle, (30" lead)	K121-30
Sealed locking type receptacle with pole bracket	K122



K4500



K121/K121-30



K122

Ratings	
Operating Voltage	120-277 VAC, 50/60 Hz
Inductive Ballast	1800 VA
Electronic Ballast	LED4536SC 8 A EK4536 6 A ELC4536 2 A
Incandescent	1000 W
Activation	1.5 fc ON, 2.25 fc OFF
Time Delay	2 to 5 sec
Operating Temperature	-40° F to 158° F (-40° C to 70° C)
Dimensions H x Dia	LED4536SC 2 3/4" x 3" (69.9 mm x 76.2 mm) EK4536 2 3/4" x 3" (69.9 mm x 76.2 mm) ELC4536 2 1/4" x 3 3/16" (57.2 mm x 81 mm)
Warranty	LED4536SC 12-year limited EK4536 8-year limited ELC4536 6-year limited