LED lighting for harsh industrial and hazardous areas

CROUSE-HINDS SERIES

LED Obstruction Lighting

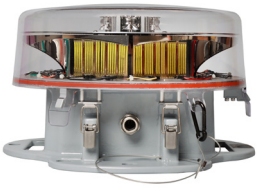
Medium and low intensity systems

EATON

Powering Business Worldwide

Why Crouse-Hinds series obstruction lighting?

With the industry's broadest range of LED luminaires for harsh and hazardous environments, Eaton delivers a lighting solution that performs reliably in even the worst operating conditions. All the while reducing your energy, maintenance and manpower costs.



Comprehensive certification:

- FAA and ICAO compliant
- Certified for use in Class I, Division 2 harsh and hazardous applications and heavy industrial areas

Designed to last:

- 70,000 to 90,000 hours of rated life at 55°C, eliminates need for frequent lamp replacement or maintenance
- Integrated surge protection
- Operating temperature: -40°C to +55°C

Complete range of controllers for every environment:

- A wide range of cULus Listed enclosures in various sizes

FAA, FCC and ICAO regulation support

Need help with configurations and regulations?

Height is not the only important consideration when choosing how a structure is to be marked. For industrial and hazardous area applications, professional assistance may be required to determine the appropriate FAA, FCC and ICAO configuration.

We can help you find the right solution.

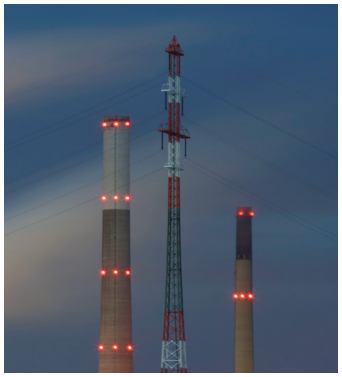
Contact your local sales representative or our Engineered-to-Order (ETO) team for help in selecting the right Crouse-Hinds series lighting solution for your unique application.

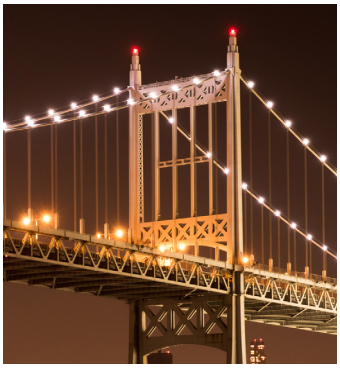
Engineered-to-Order team
SYR-ETO-RFQ@Eaton.com

FAA and ICAO standards at a glance

Any structure that exceeds 200' above ground level generally needs to be marked (lighted) according to FAA and ICAO regulations.

There are many factors that can affect obstruction marking requirements, such as weather, terrain, proximity to airports, etc. The information presented in the following pages of this catalog is intended to provide basic guidance for structure marking.





FAA equipment classification

L-810	Low intesity steady-burning or flashing red obstruction light (30 FPM)
L-856	High intensity flashing white obstruction light (40 FPM)
L-857	High intensity flashing white catenary light (60 FPM)
L-864	Medium intensity flashing red obstruction light (20-40 FPM)
L-865	Medium intensity flashing white obstruction light (40 FPM)
L-864/ L-865	Medium intensity red (30 FPM) and medium intensity white (40 FPM) obstruction light
L-866	Catenary medium intensity white (60 FPM)
L-885	Red catenary (60 FPM)

NOTE:

FPM = Flashes per minute

Information is provided to assist in your product selection based on AC 70/7460-1M and AC 150/5345-43J Advisory Circular. Your application may demand special lighting requirements.

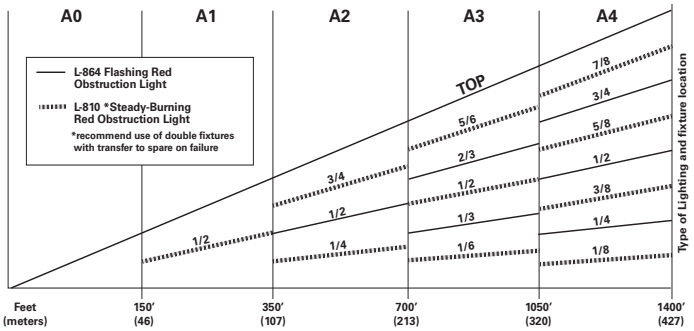
FAA lighting system configuration

Type A	Red lighting system
Type B	High intensity white
Type C	High intensity white; medium intensity white beacon on appurtenance over 40' tall
Type D	Medium intensity white
Type E	Dual lighting system/red, medium intensity white
Type F	Dual lighting system red high intensity white (Dual beacon on appurtenance over 40' tall)

ICAO lighting system configuration

Type A	Low intensity, red steady; medium intensity, white flashing; high intensity, white flashing
Type B	Low intensity, red steady; medium intensity, red flashing; high intensity, white flashing
Type C	Low intensity (mobile), yellow/blue flashing; medium intensity, red steady
Type E	Low intensity red flashing

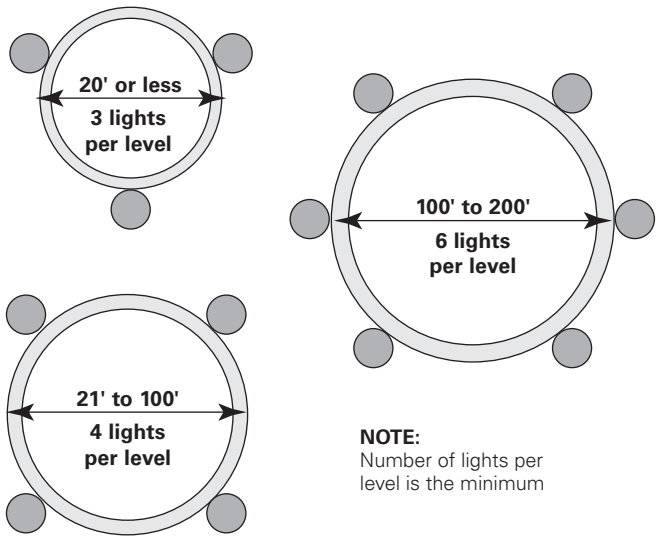
Number and types of lighting levels/height



NOTE:

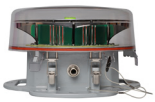
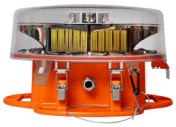
Lowest level of lights must be raised above the height of adjacent structures. If your structure is not represented, allow us to assist you with selecting the proper products for your specific structure. Example: For structure "A1" requires one L-864 beacon at top and at ½ tower height mount L-810 sidelights.

Number of lights per level/structure diameter



NOTE:
Number of lights per level is the minimum

LED obstruction lighting portfolio

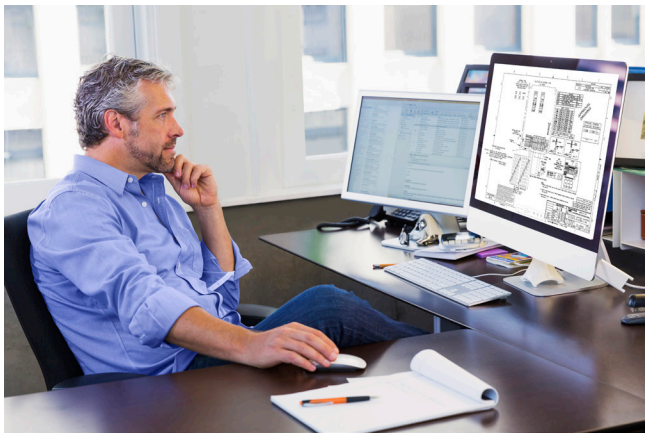
Area classification	FAA equipment designation	Lighting system configuration	Product		Page number
Harsh and heavy industrial	L-810 low intensity red	FAA: Type A ICAO: Type B & E* *Type E flashing is controlled at the system level; standalone L810 units are Type B steady burn only.	**L-810 LED red obstruction side marker**		Page 6
	L-864 medium intensity red	FAA: Type A ICAO: Type B & C* *For L-864 steady-burn only.	**L-864 LED red beacon**		Page 7
	L-864/L-865 medium intensity dual red & white	FAA: Type E/Type D** ICAO: Type A, B & C/ Type A** **For L-865 only.	**L-864/L-865 LED red & white beacon**		Page 8
	Obstruction lighting controllers	Compliant to FAA and ICAO guidelines	**Controllers**		Page 12
	Photocontrol and flasher combo assembly	For use with both red and dual systems	**Photocontrol**		Page 14
	Alternating light control transfer relay	For use with double obstruction lighting systems	**Alternating light transfer relay**		Page 15
Class I, Division 2	Low intensity red	FAA: Type A ICAO: Type B & E* *Type E flashing is controlled at the system level; standalone L810 units are Type B steady burn only.	**LED red obstruction side marker**		Page 9
	Medium intensity red	FAA: Type A ICAO: Type B or Type C* *For L-864 steady-burn only.	**LED red beacon**		Page 10
	Medium intensity dual red and white	FAA: Type E/Type D** ICAO: Type A, B & C/ Type A** **For L-865 only.	**LED red & white beacon**		Page 11
	Obstruction lighting controller	Compliant to FAA and ICAO guidelines	**Controller**		Page 12
	Photocontrol and flasher combo assembly	For use with both red and dual hazardous location systems	**Photocontrol**		Page 16
	Alternating light control transfer relay	For use with double obstruction lighting systems in hazardous locations	**Alternating light transfer relay**		Page 17

Custom obstruction lighting design services

Need help with configurations and regulations? We can help design the right obstruction lighting solution for your application.

Properly lighting a structure is more than just obtaining a structure height, looking at a chart and quoting a system. An integrated and compliant solution begins with true expertise and good, clear communication based on a sincere desire to develop the very best solution to your light and controls needed.

The Eaton team has well over 90 years of combined harsh and hazardous area lighting and design experience to help solve your obstruction lighting challenges.



Our Eaton lighting experts treat every application as a unique situation. In many cases, we are able to offer several options, based on factors including FAA/FCC and ICAO requirements, special environmental or zoning issues, and characteristics of the structure to be lighted. Eaton will also help evaluate and demonstrate the initial costs of our long-life obstruction lighting systems vs. their long-term cost benefits.

We excel in custom design and determining the "best fit" approach to your unique lighting application. All of our systems include detailed installation manuals, a troubleshooting guide and "D" size prints for maximum comprehension of the system and install.

You can trust Eaton to deliver a compliant and certified obstruction lighting solution tailored to your specific needs.

Contact your local Crouse-Hinds series sales representative or our Engineered-to-Order (ETO) team at SYR-ETO-RFQ@Eaton.com for assistance in selecting the right solution for your unique application.

Harsh and heavy industrial areas

L-810 LED low intensity red obstruction side marker with infrared (IR)

Incorporates both red and infrared LEDs in a single unit to ensure visibility around various obstructions during normal flight and when aided by night vision.

Aviator's Night Vision Imaging Systems (ANVIS) and night vision goggles (NVGs) often employ Class A, B and C filters, which can impact visibility to light in the visible spectrum.

Certifications & compliances

- FAA L-810
- Transport Canada
- DGAC Mexico
- ICAO Type B & E*
- CE
- IP66, NEMA 4X

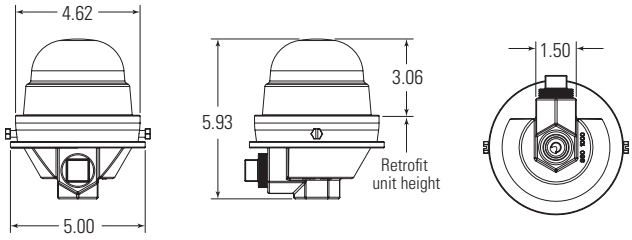
*Type E flashing is controlled at the system level; standalone L810 units are Type B steady burn only.

Features

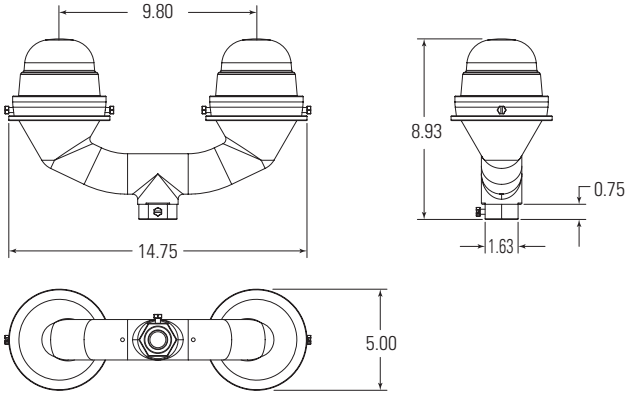
- -40°C to +55°C ambient operating temperature
- Peak IR intensity: 860nm
- Engineered for direct sunlight, wind-blown rain, wind in excess of 150 mph, high humidity, salt and fog
- 360° coverage for each side light
- Compact design is shock-resistant and vibration-resistant
- Integrated surge protection
- Weather and corrosion-resistant lamp assembly and housing
- Self-contained wiring compartment eliminates additional boxes
- Threaded 1" and ¾" bottom hub for mounting
- Can be operated steady or flashed with use of a controller
- 5 year fixture warranty*

*Refer to terms & conditions on Eaton.com for Crouse-Hinds series solutions.

Dimensions - Single side marker and retrofit unit



Dimensions - Dual side marker



Standard materials

- Housing: cast copper-free aluminum
- Lens: UV treated, heat and impact-resistant polycarbonate
- Gasket: silicone

Ordering information and electrical specifications

Model	Description	Weight lbs. (kg.)	Wattage	Voltage	Power factor
12004-RTO-CR27-001	Single fixture, red/infrared (IR) for AC powered systems	2.00 (0.91)	6.0	120-240 VAC, 50/60 Hz	0.90
12004-RTO-CR28-001	Single fixture, red/infrared (IR) for DC powered systems	2.00 (0.91)	5.2	24-48 VDC	0.90
12004-RTO-CR27-002	Dual fixture, red/infrared (IR) for AC powered systems	4.60 (2.09)	12.0	120-240 VAC, 50/60 Hz	0.90
12004-RTO-CR28-002	Dual fixture, red/infrared (IR) for DC powered systems	4.60 (2.09)	10.4	24-48 VDC	0.90
12004-RTO-CR27-004	Retrofit single fixture, red/infrared (IR) for AC powered systems	1.25 (0.56)	6.0	120-240 VAC, 50/60 Hz	0.90
12004-RTO-CR28-004	Retrofit single fixture, red/infrared (IR) for DC powered systems	1.25 (0.56)	5.2	24-48 VDC	0.90

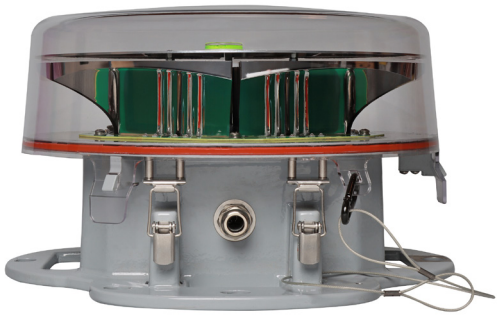
Harsh and heavy industrial areas

L-864 LED medium intensity red beacon with infrared (IR)

Designed for use with FAA Type A lighting configurations, the L-864 red beacons incorporate both red and infrared LEDs in a single unit to ensure visibility around military bases, airfield perimeters, buildings, towers and other obstructions to aircraft pilots, both during normal flights and when aided by night vision systems.

Precision optics ensure maximum visibility with minimal ground scatter, and long-life LEDs dramatically reduce maintenance costs and non-compliance risks.

ETL certified to FAA requirements and compliant to ICAO and Transport Canada standards.



Features

- -40°C to +55°C ambient operating temperature
- IR wavelength at 850 nm
- Infrared improves visibility for Aviator's Night Vision Imaging Systems (ANVIS) and night vision goggles (NVGs)
- Flashing or steady burn operation
- 100,000 hour expected LED life
- 360° coverage for each beacon
- Patented optics for minimal down light and ground scatter
- Light module detachable from base for easy replacement at end of life
- IP66/NEMA 4X outdoor rated enclosures
- Remote monitoring options available
- Provisions for padlock on the enclosure
- 6kV of surge protection
- Shock-resistant and vibration-resistant
- 5 year fixture warranty*

*Refer to terms & conditions on Eaton.com for Crouse-Hinds series solutions.

Certifications & compliances

- FAA L-864
- Transport Canada
- DGAC Mexico
- ICAO Type B & C*
- CASA (red only)
- CE, RCM
- IP66, NEMA 4X

*For L-864 steady-burn only.

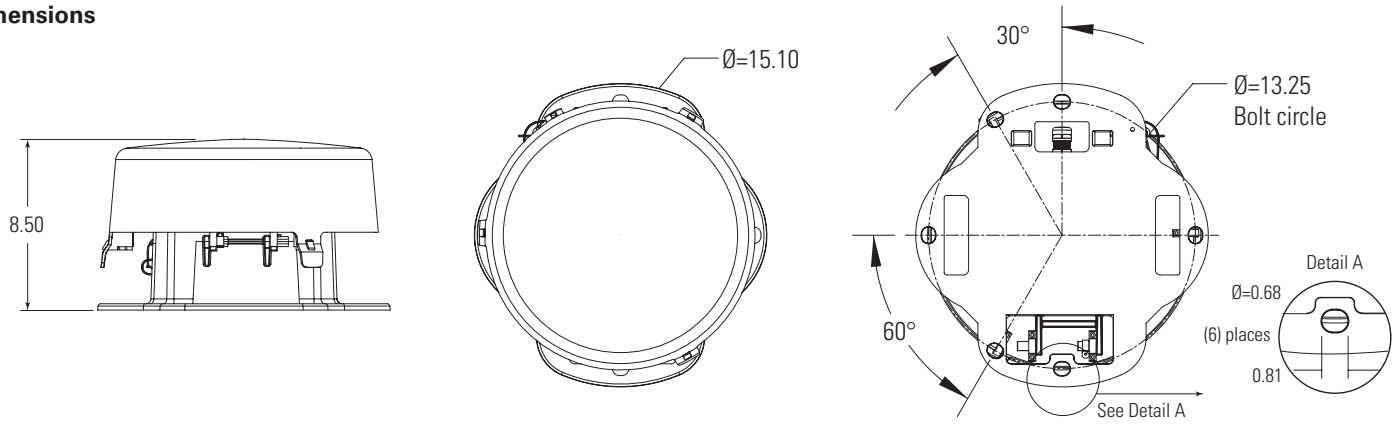
Photometrics

- Flash intensity (nominal):
  - Night (red): 2,000 cd
- Flash rate:
  - Night (red): 30 flashes per minute

Standard materials

- Housing: powder coated, copper-free, marine grade aluminum
- Lens: UV treated, heat and impact-resistant polycarbonate
- Gasket: silicone

Dimensions



Ordering information and electrical specifications

Model	Description	Weight lbs. (kg.)	Wattage	Voltage	Power factor
12004-D664-R13-001	L-864 beacon, red/infrared (IR) for AC powered systems	21.00 (9.52)	23.0	120-240 VAC, 50/60 Hz	0.90
12004-D664-R54-001	L-864 beacon, red/infrared (IR) for DC powered systems	21.00 (9.52)	23.0	24-48 VDC	0.90

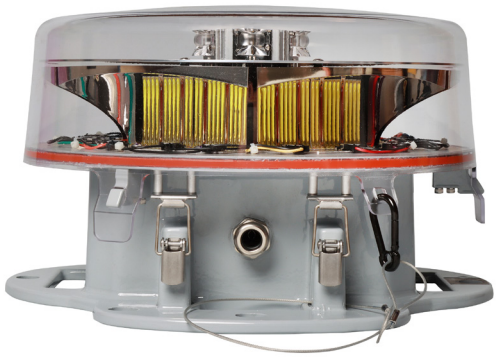
Harsh and heavy industrial areas

L-864/L-865 LED medium intensity flashing dual red/white beacon with infrared (IR)

Designed for use with FAA Type D and E lighting configurations, L-864/L-865 white/red beacons also incorporate infrared LEDs in a single unit to ensure visibility around military bases, airfield perimeters, buildings, towers and other obstructions to aircraft pilots, both during normal flights and when aided by night vision systems. These white/red IR beacons are ideal for towers, stacks, wind turbines and buildings in industrial settings.

Precision optics ensure maximum visibility with minimal ground scatter, and long-life LEDs dramatically reduce maintenance costs and non-compliance risks.

ETL certified to FAA requirements and compliant to ICAO and Transport Canada standards.



Features

- -40°C to +55°C ambient operating temperature
- IR wavelength at 850 nm
- Infrared improves visibility for Aviator's Night Vision Imaging Systems (ANVIS) and night vision goggles (NVGs)
- Flashing or steady burn operation
- 100,000 hour expected LED life
- 360° coverage for each beacon
- Patented optics for minimal down light and ground scatter
- Light module detachable from base for easy replacement at end of life
- IP66/NEMA 4X outdoor rated enclosures
- Remote monitoring options available
- Provisions for padlock on the enclosure
- 6kV of surge protection
- Shock-resistant and vibration-resistant
- 5 year fixture warranty*

*Refer to terms & conditions on Eaton.com for Crouse-Hinds series solutions.

Certifications & compliances

- FAA L-864, L-865, L-865/L-864
- Transport Canada
- DGAC Mexico
- ICAO Type A*, B & C
- CASA (red only)
- CE, RCM
- IP66, NEMA 4X

*For L-865 only.

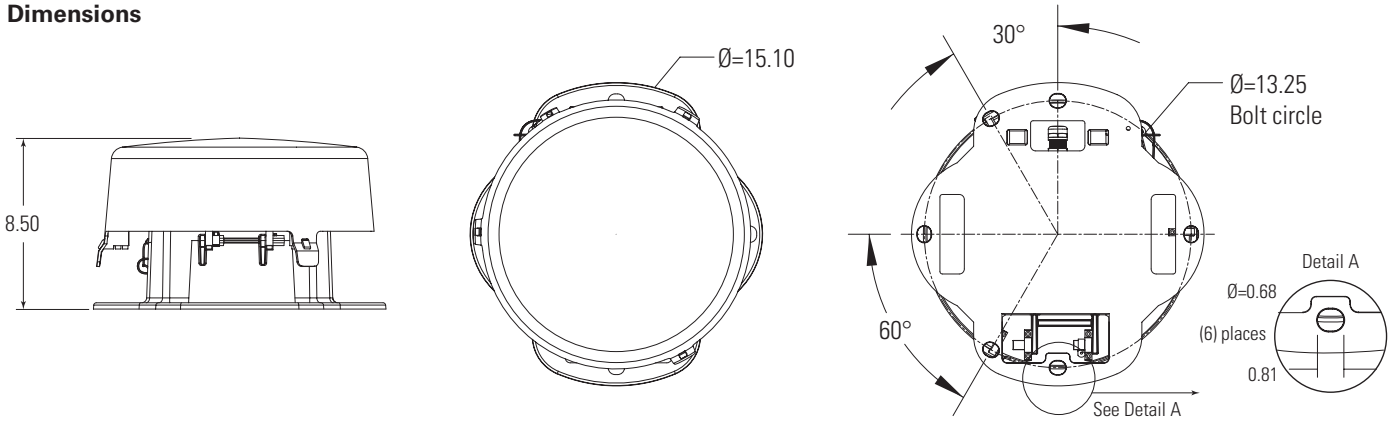
Photometrics

- Flash intensity (nominal):
  - Day (white): 20,000 cd
  - Night (red): 2,000 cd
- Flash rate:
  - Day (white): 40 flashes per minute
  - Night (red): 30 flashes per minute

Standard materials

- Housing: powder coated, copper-free, marine grade aluminum
- Lens: UV treated, heat and impact-resistant polycarbonate
- Gasket: silicone

Dimensions



Ordering information and electrical specifications

Model	Description	Weight lbs. (kg.)	Wattage	Voltage	Power factor
12004-D1CWFH409	L-864/L-865 red and white beacon with infrared (IR) for AC powered systems	21.00 (9.52)	White day – 75W; white night – 10W; red night – 25W	120-240 VAC, 50/60 Hz; 48 VDC	0.90

Class I, Division 2 hazardous areas

LED low intensity red obstruction side marker

LED low intensity red side lights are ideal for towers, stacks, wind turbines and buildings located in hazardous areas. They are designed for use with Type A FAA lighting configurations.

Available as a single or dual unit, each flash head provides 360° coverage and performs reliably in classified areas and extreme environmental conditions.

Certifications & compliances

- cETLus Listed
- Class I, Division 2, Groups B, C, D
- UL1598; UL844
- CSA C22.2 No. 250, CSA C22.2 No. 137
- IP66, NEMA 4X
- Transport Canada
- DGAC Mexico
- ICAO Type B & E*

*Type E flashing is controlled at the system level; standalone L810 units are Type B steady burn only.

Features

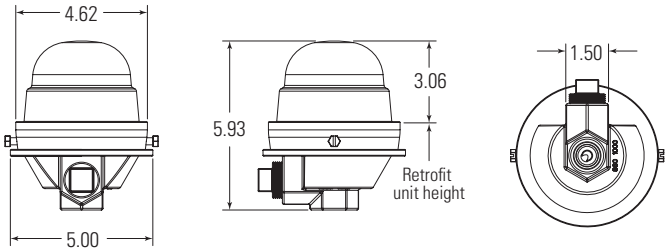
- -40°C to +55°C ambient operating temperature
- Engineered for direct sunlight, wind-blown rain, wind in excess of 150 mph, high humidity, salt and fog
- Integrated surge protection
- 360° coverage for each obstruction light
- Shock-resistant and vibration-resistant
- Weather and corrosion-resistant lamp assembly and housing
- Self-contained wiring compartment eliminates additional boxes
- Threaded 1" and ¾" bottom hub for mounting
- Can be operated steady or flashed with use of a controller
- 5 year fixture warranty*

*Refer to terms & conditions on Eaton.com for Crouse-Hinds series solutions.

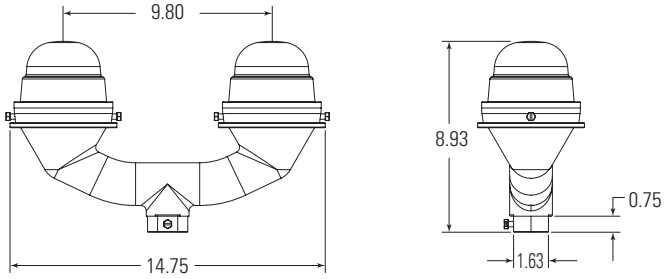
Standard materials

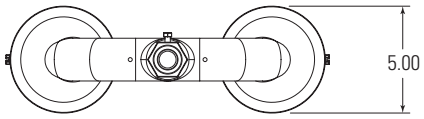
- Housing: cast copper-free aluminum
- Lens: UV treated, heat and impact-resistant polycarbonate
- Gasket: silicone

Dimensions - Single side marker and retrofit unit



Dimensions - Dual side marker





Ordering information and electrical specifications

Model	Nominal lumens	Weight lbs. (kg.)	Wattage	Voltage	Power factor	THD
12004-RTO-2R07-001	Single fixture for AC powered systems	2.00 (0.91)	6.5	120-240 VAC, 50/60 Hz	0.90	≤ 20%
12004-RTO-ER08-001	Single fixture for DC powered systems	2.00 (0.91)	3.5	24-48 VDC	0.90	≤ 20%
12004-RTO-2R07-002	Dual fixture for AC powered systems	4.60 (2.09)	13.0	120-240 VAC, 50/60 Hz	0.90	≤ 20%
12004-RTO-ER08-002	Dual fixture for DC powered systems	4.60 (2.09)	7.0	24-48 VDC	0.90	≤ 20%

Class I, Division 2 hazardous areas

LED medium intensity red beacon

Designed for use with FAA Type A lighting configurations, red beacons are ideal for towers, stacks, wind turbines and buildings located in hazardous areas.

Precision optics ensure maximum visibility with minimal ground scatter, and long-life LEDs dramatically reduce maintenance costs and non-compliance risks. Each beacon provides 360° coverage and performs reliably in classified areas and extreme environmental conditions.

Features

- -40°C to +55°C ambient operating temperature
- Flashing or steady burn operation
- 100,000 hour expected LED life
- 360° coverage for each beacon
- Patented optics for minimal down light and ground scatter
- Light module detachable from base for easy replacement at end of life
- IP66/NEMA 4X outdoor rated enclosures
- Remote monitoring options available
- 6kV of surge protection
- Shock-resistant and vibration-resistant
- 5 year fixture warranty*

*Refer to terms & conditions on Eaton.com for Crouse-Hinds series solutions.

Certifications & compliances

- cETLus Listed
- Class I, Division 2, Groups B, C, D
- UL1598; UL844
- CSA C22.2 No. 250, CSA C22.2 No. 137
- IP66, NEMA 4X
- Transport Canada
- DGAC Mexico
- ICAO Type B & C*

*For steady-burn only.

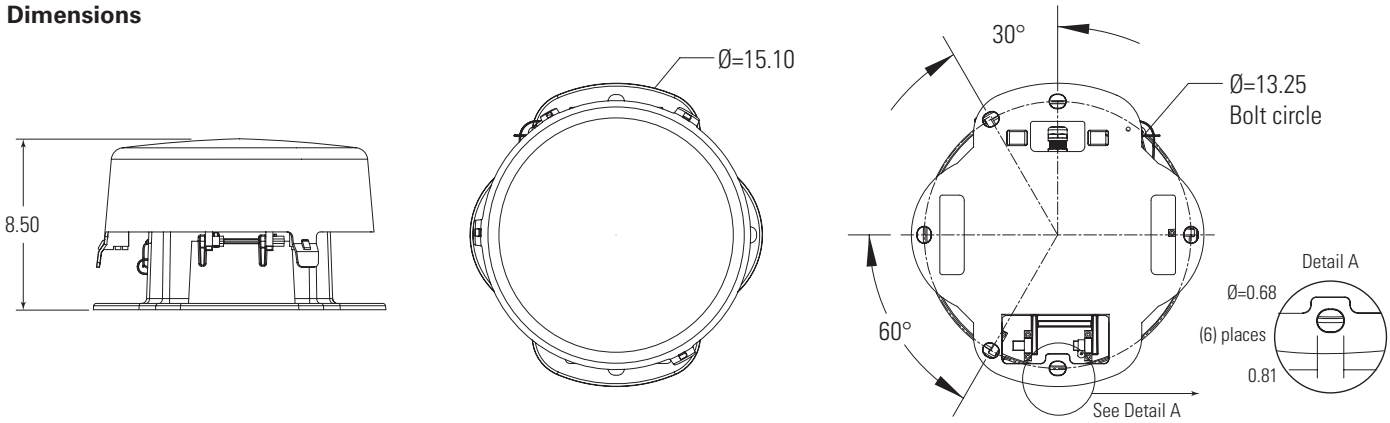
Photometrics

- Flash intensity (nominal):
  - Night (red): 2,000 cd
- Flash rate:
  - Night (red): 30 flashes per minute

Standard materials

- Housing: powder coated, copper-free, marine grade aluminum
- Lens: UV treated, heat and impact-resistant polycarbonate
- Gasket: silicone

Dimensions



Ordering information and electrical specifications

Model	Description	Weight lbs. (kg.)	Wattage	Voltage	Power factor
12004-D564-B13-001	Red beacon for AC powered systems	21.00 (9.52)	Red night – 20W	120-240 VAC, 50/60 Hz	0.90
12004-D564-A54-001	Red beacon for DC powered systems	21.00 (9.52)	Red night – 20W	24-48 VDC	0.90

Class I, Division 2 hazardous areas

LED medium intensity flashing dual white/red beacon

Designed for use with FAA Type D and E lighting configurations, white/red beacons are ideal for towers, stacks, wind turbines and buildings located in hazardous areas.

Precision optics ensure maximum visibility with minimal ground scatter, and long-life LEDs dramatically reduce maintenance costs and non-compliance risks. Each beacon provides 360° coverage and performs reliably in classified areas and extreme environmental conditions.

Features

- -40°C to +55°C ambient operating temperature
- Flashing or steady burn operation
- 100,000 hour expected LED life
- 360° coverage for each beacon
- Patented optics for minimal down light and ground scatter
- Light module detachable from base for easy replacement at end of life
- IP66/NEMA 4X outdoor rated enclosures
- Remote monitoring options available
- 6kV of surge protection
- Shock-resistant and vibration-resistant
- 5 year fixture warranty*

*Refer to terms & conditions on Eaton.com for Crouse-Hinds series solutions.

Certifications & compliances

- cETLus Listed
- Class I, Division 2, Groups B, C, D
- UL1598; UL844
- CSA C22.2 No. 250, CSA C22.2 No. 137
- IP66, NEMA 4X
- Transport Canada
- DGAC Mexico
- ICAO Type A*, B & C

* For flashing white only.

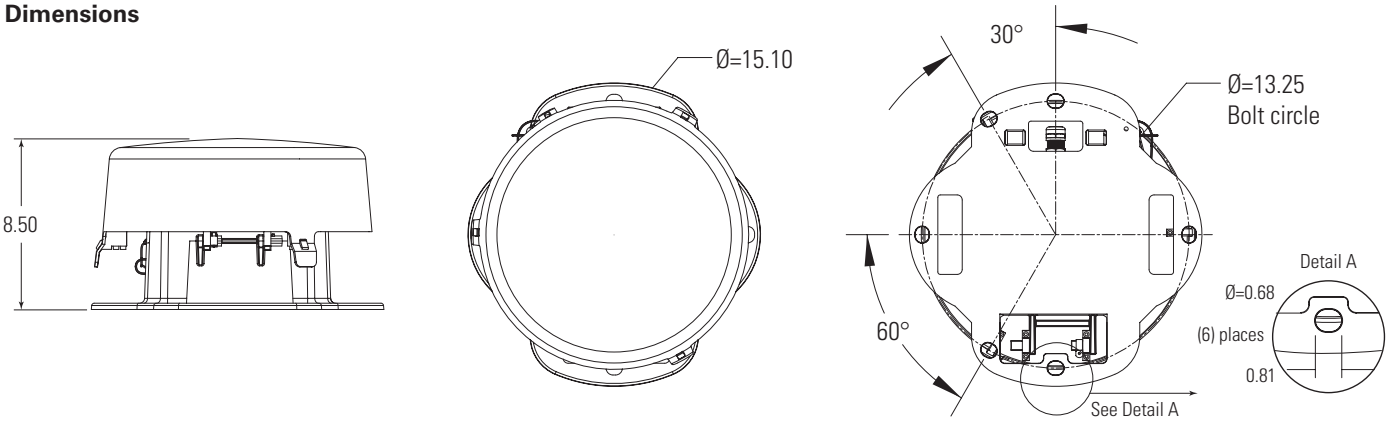
Photometrics

- Flash intensity (nominal):
  - Day (white): 20,000 cd
  - Night (red): 2,000 cd
- Flash rate:
  - Day (white): 40 flashes per minute
  - Night (red): 30 flashes per minute

Standard materials

- Housing: powder coated, copper-free, marine grade aluminum
- Lens: UV treated, heat and impact-resistant polycarbonate
- Gasket: silicone

Dimensions



Ordering information and electrical specifications

Model	Description	Weight lbs. (kg.)	Wattage	Voltage	Power factor
12004-DHZBFHD4C	Red and white beacon for AC and DC powered systems	21.00 (9.52)	White day – 85W; white night – 35W; red night – 25W	120-240 VAC, 50/60 Hz; 48 VDC	0.90

Harsh and heavy industrial areas; Class I, Division 2 hazardous areas

Obstruction lighting controllers

The OLC series aviation obstruction lighting controllers are engineered to meet the most demanding industrial and hazardous area environmental applications.

Utilizing Eaton's Crouse-Hinds series hazardous and industrial rated enclosures with integrated failure monitoring and control, the OLC series provides a complete obstruction lighting system compliant to FAA and ICAO guidelines.

Primary applications

- For use with FAA or ICAO aviation obstruction lighting
- NEC Class I, Division 2 hazardous rated areas
- Heavy industrial, chemical, petrochemical or pharmaceutical facilities
- Commercial, light industrial or residential installations
- Water towers, telecommunications towers, windmill installations, broadcast towers, chimneys and stacks

Features

- Available in a wide range of sizes and enclosure types
- Obstruction lighting systems tested and verified to perform to FAA and ICAO obstruction lighting standards
- Internal photocontrol override switch
- Encapsulated solid state alarm modules and flashers to protect against harsh conditions and vibration
- Optional indicator lights and manual photocontrol override switch on enclosure door exterior
- Operating temperature: -40°C to +55°C

Certifications and compliances

- cULus Listed enclosures
- IP66, NEMA 4X (S4 and X4 models only)
- Class I, Division 2, Groups B, C, D compliant (X4 models only)

Electrical ratings

- 120 and 240 VAC, 50/60 Hz ± 10%
- 24 and 48 VDC

Enclosure types*

N4

- NEMA 4 rated, sheet steel, gray painted finish

S4

- NEMA 4X, 304 or 316 stainless steel, natural finish

X4

- Class I, Division 2, Groups B, C, D, cast aluminum, natural finish

X4 S752

- Class I, Division 2, Groups B, C, D, cast aluminum, gray epoxy painted finish

*Wall mount standard. Contact us for floor standing options.

N4 – NEMA 4 rated, sheet steel

S4 – NEMA 4X rated, 304 or 316 stainless steel (shown as floor standing)

X4 – Class I, Division 2, cast aluminum

OLC controllers are highly configurable and are engineered-to-order for each specific obstruction lighting system they control.

The catalog numbering tree below provides a reference to our more common design options.

Contact the Engineered-to-Order team at SYR-ETO-RFQ@Eaton.com for specific project requirements.

Obstruction lighting controllers

Part number example

OLC72070-1-3R/3R-IM-S4-AV-B

OLC 72070 - 1 - 3R / 3R - IM - S4 - AV - B

Model

OLC	Obstruction lighting controller

Light voltage and style

72070	120 VAC, red LED lighting
72270	240 VAC, red LED lighting
77470	24 VDC, red LED lighting
77570	48 VDC, red LED lighting
429CM-1	120 VAC dual red/white primary controller, for non-hazardous lighting systems with infrared
429CS-1	120 VAC dual red/white secondary controller, for non-hazardous lighting systems with infrared
429CM-2	240 VAC dual red/white primary controller, for non-hazardous lighting systems with infrared
429CS-2	240 VAC dual red/white secondary controller, for non-hazardous lighting systems with infrared
740M	120 VAC dual red/white primary controller, for Class I, Div. 2 hazardous area lighting systems
740S	120 VAC dual red/white secondary controller, for Class I, Div. 2 hazardous area lighting systems
742M	240 VAC dual red/white primary controller, for Class I, Div. 2 hazardous area lighting systems
742S	240 VAC dual red/white secondary controller, for Class I, Div. 2 hazardous area lighting systems

Quantity – L-810 *(single)*

#R	Number of single fixtures
0	None

Quantity – L-810 *(double)*

#R	Number of double fixtures
0	None

Quantity – beacon

1RW	One dual red/white LED beacon
1W	One white LED beacon
#	Number of red LED beacons
0	No beacons

Options

I	Indicating lights
M	Manual photocontrol override switch on door
GPS	GPS synchronized panels
F	Type L-810 lights flashing ON and OFF

Enclosure type

N4	NEMA 4, sheet steel, gray painted
S4	NEMA 4X, 304 or 316 stainless steel, natural finish
X4	Class I, Division 2, Groups B, C, D, cast aluminum, natural finish
X4 S752*	Class I, Division 2, Groups B, C, D, cast aluminum, gray epoxy painted

*Older generation controllers may have used 'S' to denote epoxy paint.

Flashing

BLANK	Not flashing
AV	Flashing L-810 lights*
ALED	Alternates dual head L-810 primary light on every photcell transition to provide equal usage of the obstruction light

*FAA requirement for low itensity lights on towers.

Smart system

B	Smart system functionality
BLANK	No smart system functionality

Harsh and heavy industrial areas

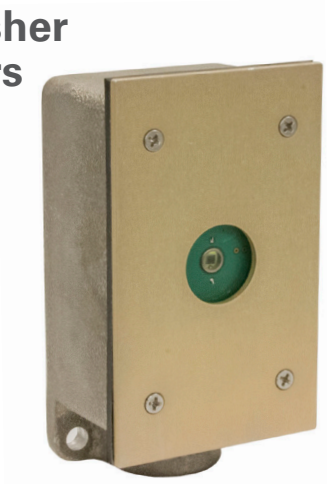
Photocontrol and photocontrol/flasher combo assembly for OLC controllers

The photocontrol and photocontrol/flasher combo assembly for tower and obstruction lighting applications are calibrated to switch ON at dusk and OFF at dawn at light levels per FAA specifications, for both red and dual systems.

The photocontrol flasher assembly will work as a photocell and also flash the RED beacon 30 flashes per minute.

Features

- Cast aluminum housing, brass cover and gasket assembly with lens
- Housing has two ¾" NPT hubs for threaded conduit (one ¾" hub for industrial model)
- Calibrated to switch ON at dusk and OFF at dawn at light levels per FAA specifications, for both red and dual systems
- Relay contact switching for input voltage and solid state output
- During power test mode the switching delay is shortened. Once test mode has timed out, the switching delay is automatically extended to its normal time. This allows for easy, quick testing of a new installation and for extended time delay during normal operations.



Certifications & compliances

- FAA AC 150/5345-43J
- ICAO Annex 14
- NEMA 4X

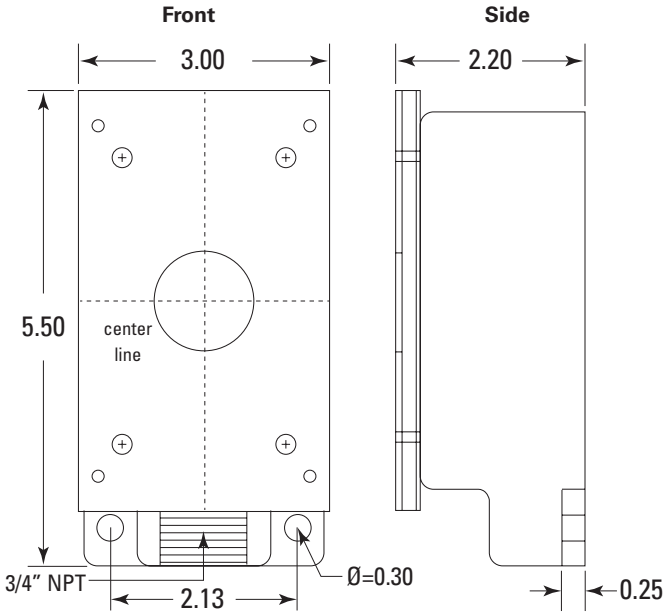
Technical specifications

- AC input: 120-240 VAC, 50/60 Hz
- DC input: 24-48 VDC
- Contact rating
  - Relay (non-isolated SPST): 10 amps at 250V
  - Solid state: 1½ amps max.
- Temperature range: Storage: -55°C to +60°C; Operating: -40°C to +60°C
- Switching delay during test mode: 5 seconds
- Switching delay after test mode: 30 seconds
- Test mode: automatically terminates 10 minutes after application of power
- Wire size: 28-14 AWG

	Switch levels		Part numbers	
System type	**On by**	**Off by**	**AC**	**DC**
White only or dual	2 f·c	5 f·c	**70438**	**70440**
Red	35 f·c	60 f·c	**70439**	**70441**

	Switch levels		Part numbers	
System type	**On by**	**Off by**	**AC**	**DC**
Red with flashing output	35 f·c	60 f·c	**70566**	**70565**

Dimensions



Ordering information and electrical specifications

Model	Description	Voltage
70438	Photocontrol for use with white only or dual red/white AC powered systems	120-240 VAC, 50/60 Hz
70439	Photocontrol for use with red only AC powered systems	120-240 VAC, 50/60 Hz
70440	Photocontrol for use with white only or dual red/white DC powered systems	24-48 VDC
70441	Photocontrol for use with red only DC powered systems	24-48 VDC
70566	Photocontrol/flasher combo assembly for use with red only AC powered systems	120-240 VAC, 50/60 Hz
70565	Photocontrol/flasher combo assembly for use with red only DC powered systems	24-48 VDC

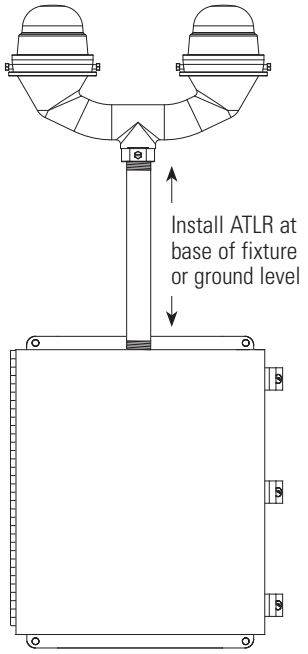
Harsh and heavy industrial areas

Alternating light control transfer relay (ALTR)

The ALTR is an economical solution for applications where the obstruction lights are difficult and/or expensive to service, such as towers or stacks that have obstruction lights that are inaccessible through normal methods.

The ALTR4 alternates between each light in a double obstruction light assembly each time the tower lights are energized by the photocontrol, ensuring equal usage of the lights over the life of the lamps. In the event one of the lights fails, the ALTR automatically energizes the operational light and provides an output for remote alarm monitoring.

The ALTR provides maximum life on both lights and essentially doubles the time between service calls.



Features

- Alternating feature doubles lamp life
- Custom drill and tap available upon request
- Designed for outdoor mounting
- Can be installed at the base of the LED light fixture or at ground level at the base of the structure
- NPT conduit entries located on the top and bottom of enclosure

Ordering information and electrical specifications

Model	Description
70026-RTO	120 VAC, transfer relay assembly for L-810 dual fixtures – Primary light and backup light roles set permanantly
70226-RTO	240 VAC, transfer relay assembly for L-810 dual fixtures – Primary light and backup light roles set permanantly

Model	Description
70029-RTO	120 VAC, alternating transfer relay assembly for L-810 dual fixtures – Primary light and backup light switch roles at each photocell transition (typically 12 hours)
70229-RTO	240 VAC, alternating transfer relay assembly for L-810 dual fixtures – Primary light and backup light switch roles at each photocell transition (typically 12 hours)

Certifications & compliances

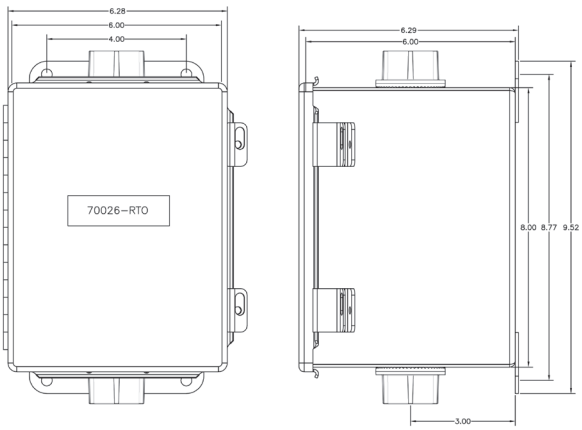
- Class I, Division 2, Groups B, C, D*
- NEMA 4

*Available upon request.

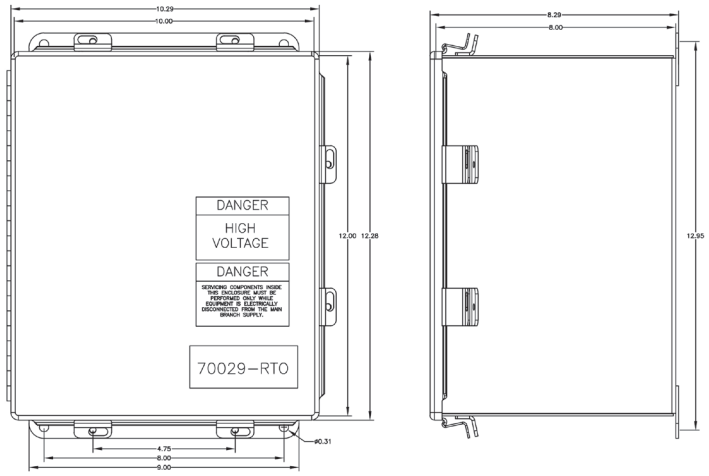
Technical specifications

- AC input: 120 VAC or 230 VAC, 50/60 Hz
- Additional electrical specifications based on overall system requirements per customer design

Dimensions



70026-RTO and 70226-RTO



70029-RTO and 70229-RTO

Class I, Division 2 hazardous areas

Photocontrol and photocontrol/flasher combo assembly for OLC controllers

This photocontrol is designed for tower and obstruction lighting applications. It is calibrated to switch ON at dusk and OFF at dawn at light levels per FAA specifications, for both red and dual systems.

Features

- Housing has two ¾" NPT hubs for threaded conduit (one ¾" hub for industrial model)
- Relay contact switching for input voltage and solid state output
- During power test mode the switching delay is shortened. Once test mode has timed out, the switching delay is automatically extended to its normal time. This allows for easy, quick testing of a new installation and for extended time delay during normal operations.

Certifications & compliances

- Class I, Division 2, Groups B, C, D
- FAA AC 150/5345-43J
- ICAO Annex 14
- NEMA 4X

Technical specifications

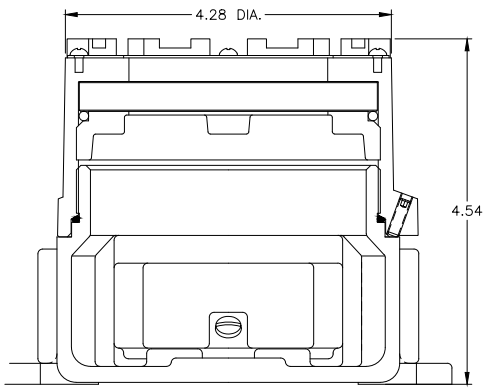
- AC input: 120-240 VAC, 50/60 Hz
- DC input: 24-48 VDC
- Contact rating
  - Relay (non-isolated SPST): 10 amps at 250V
  - Solid state: 1½ amps max.
- Temperature range: Storage: -55°C to +60°C; Operating: -40°C to +60°C
- Switching delay during test mode: 5 seconds
- Switching delay after test mode: 30 seconds
- Test mode: automatically terminates 10 minutes after application of power
- Wire size: 28-14 AWG

	Switch levels		Part numbers	
System type	**On by**	**Off by**	**AC**	**DC**
White only or dual	2 f·c	5 f·c	**70438-X2**	**70440-X2**
Red	35 f·c	60 f·c	**70439-X2**	**70441-X2**

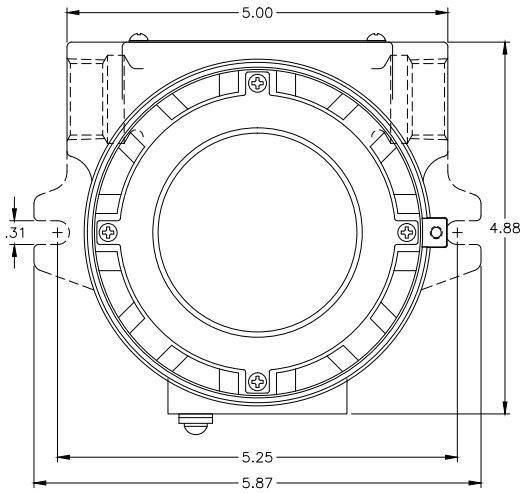
	Switch levels		Part numbers	
System type	**On by**	**Off by**	**AC**	**DC**
Red with flashing output	35 f·c	60 f·c	**70566-X2**	**70565-X2**

Dimensions

Side



Top



Ordering information and electrical specifications

Model	Description	Voltage
70438-X2	Photocontrol for use with white only or dual red/white AC powered systems	120-240 VAC, 50/60 Hz
70439-X2	Photocontrol for use with red only AC powered systems	120-240 VAC, 50/60 Hz
70440-X2	Photocontrol for use with white only or dual red/white DC powered systems	24-48 VDC
70441-X2	Photocontrol for use with red only DC powered systems	24-48 VDC
70566-X2	Photocontrol/flasher combo assembly for use with red only AC powered systems	120-240 VAC, 50/60 Hz
70565-X2	Photocontrol/flasher combo assembly for use with red only DC powered systems	24-48 VDC

Class I, Division 2 hazardous areas

Alternating light control transfer relay (ALTR)

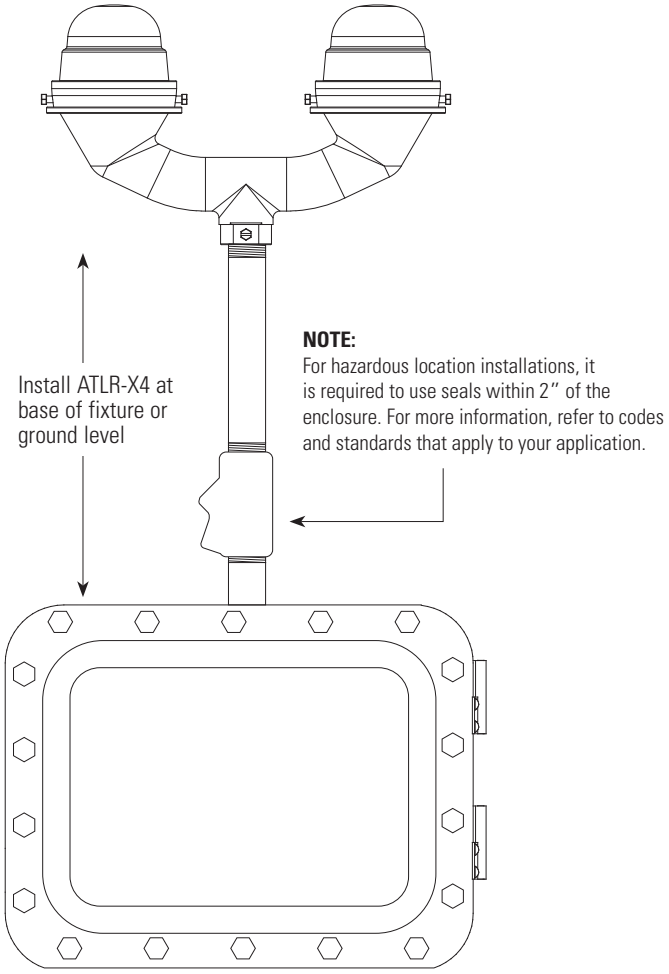
The ALTR is an economical solution for applications where the obstruction lights are difficult and/or expensive to service, such as towers or stacks that have obstruction lights that are inaccessible through normal methods.

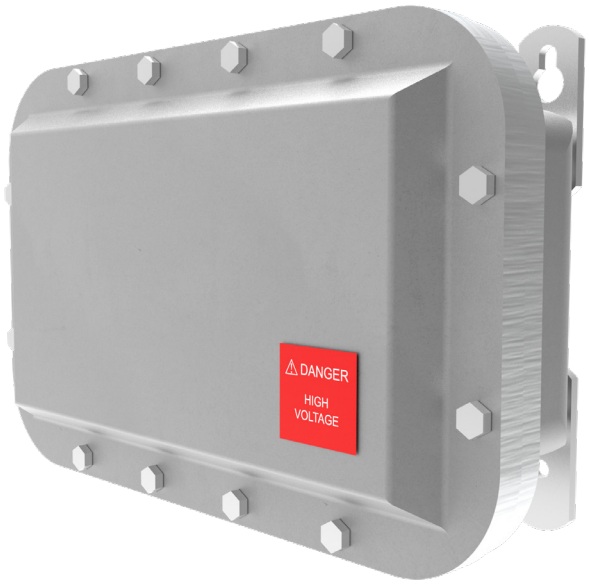
Available in a Class I, Division 2 enclosure, the ALTR-X4 alternates between each light in a double obstruction light assembly each time the tower lights are energized by the photocontrol, ensuring equal usage of the lights over the life of the lamps. In the event one of the lights fails, the ALTR-X4 automatically energizes the operational light and provides an output for remote alarm monitoring.

The ALTR-X4 provides maximum life on both lights and essentially doubles the time between service calls.

Features

- Up to 20 years lifetime when purchased as a complete assembly
- Custom drill and tap available upon request
- Designed for outdoor mounting
- Can be installed at the base of the LED light fixture or at ground level at the base of the structure
- NPT conduit entries located on the top and bottom of enclosure





Certifications & compliances

- Class I, Division 2, Groups B, C, D
- NEMA 4

Technical specifications

- AC input: 120 VAC or 230 VAC, 50/60 Hz
- Additional electrical specifications based on overall system requirements per customer design

Ordering information

Model	Description
70026-RTO-X4	120 VAC, transfer relay assembly for L-810 dual fixtures – Primary light and backup light roles set permanantly
70226-RTO-X4	240 VAC, transfer relay assembly for L-810 dual fixtures – Primary light and backup light roles set permanantly

Model	Description
70029-RTO-X4	120 VAC, alternating transfer relay assembly for dual fixtures – Primary light and backup light switch roles at each photocell transition (typically 12 hours)
70229-RTO-X4	240 VAC, alternating transfer relay assembly for dual fixtures – Primary light and backup light switch roles at each photocell transition (typically 12 hours)

Harsh and heavy industrial areas

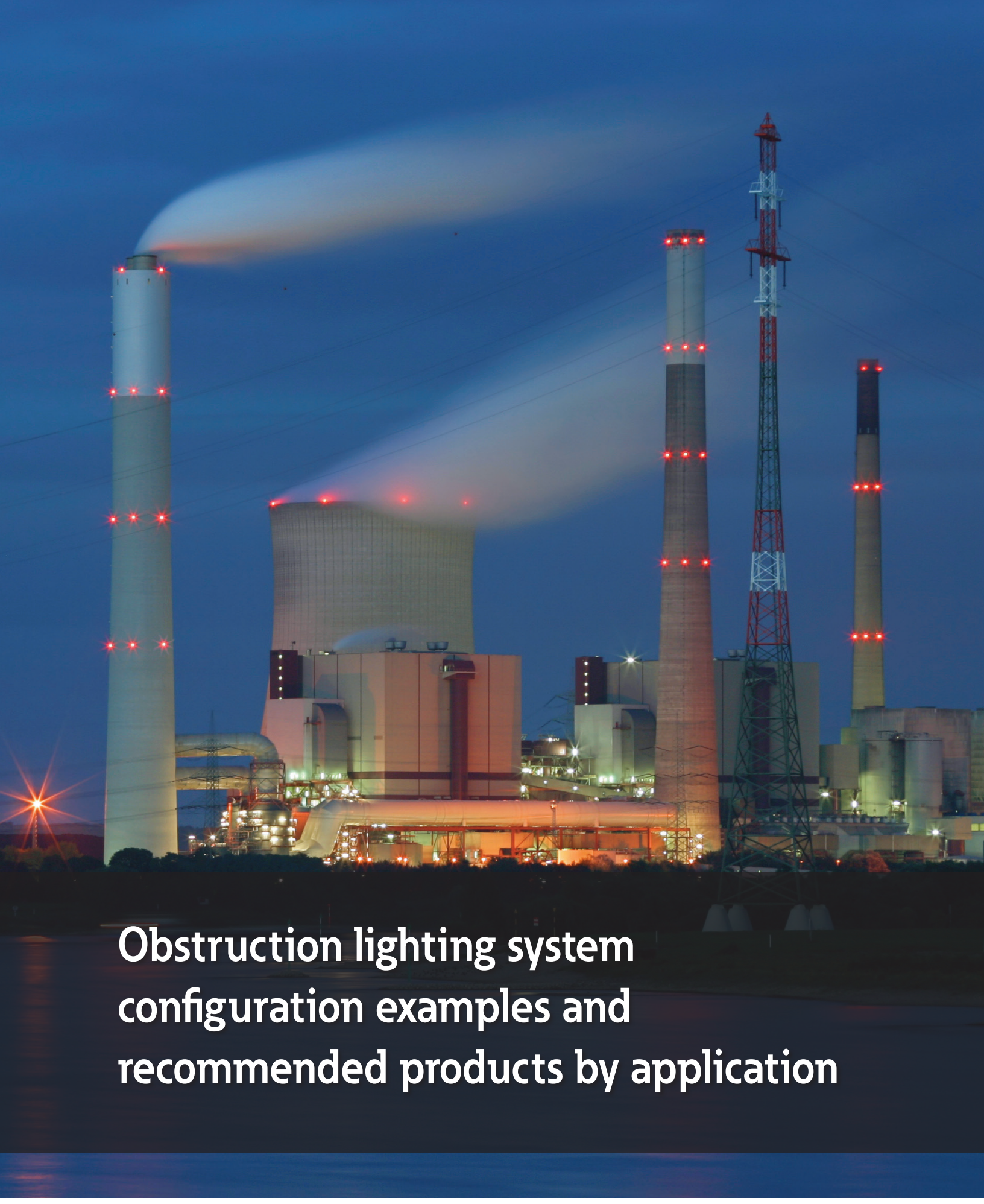
Obstruction lighting lowering systems

Avoid working at heights to improve safety and simplify maintenance

Lowering systems provide a means of lowering the obstruction light down to ground level for easy and safe servicing instead of climbing up the structure to get to it.

Lowering systems are custom configured for each obstuction lighting application and are available with a number of options (lowering mechanism type, heat shields, bird cages, etc).

Please contact our Engineered-to-Order (ETO) team at SYR-ETO-RFQ@Eaton.com for assistance in designing a lowering system that meets your needs.



Obstruction lighting system configuration examples and recommended products by application

Examples of Obstruction Lighting Systems

Smokestack configurations: Red lights only

Configuration examples for reference only.
Contact the Engineered-to-Order team at SYR-ETO-RFQ@Eaton.com for specific project requirements.

Configuration Key

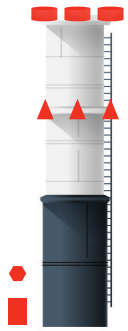
- Single LED low intensity red obstruction side marker
- Double LED low intensity red obstruction side marker
- LED medium intensity red beacon
- LED medium intensity dual red/white beacon
- Obstruction lighting controlller
- Photocontrol assembly

Height: 150 feet and lower
Diameter: 20 feet or less

System component	Input	Ordinary location		NEMA 4X		Class I, Division 2	
		Model	Qty.	Model	Qty.	Model	Qty.
Controller	120 VAC	OLC72070-0-0/3R1*-IM-N4	1	OLC72070-0-0/3R1*-IM-S4	1	OLC72070-0-0/3R1*-IM-X4	1
	220-240 VAC	OLC72270-0-0/3R1*-IM-N4	1	OLC72270-0-0/3R1*-IM-S4	1	OLC72270-0-0/3R1*-IM-X4	1
L-810 double LED Light	120/240 VAC	12004-RTO-CR27-002	3	12004-RTO-CR27-002	3	12004-RTO-2R07-002	3
Photocontrol	120/240 VAC	70439	1	70439	1	70439-X2	1

*The number 1 indicates the quantity of control outputs for the L-810 lights.

Height: 151 feet to 350 feet
Diameter: 20 feet or less



System component	Input	Ordinary location		NEMA 4X		Class I, Division 2	
		Model	Qty.	Model	Qty.	Model	Qty.
Controller	120 VAC	OLC72070-3-3R/0-IM-N4	1	OLC72070-3-3R/0-IM-S4	1	OLC72070-3-3R/0-IM-X4	1
	220-240 VAC	OLC72270-3-3R/0-IM-N4	1	OLC72270-3-3R/0-IM-S4	1	OLC72270-3-3R/0-IM-X4	1
L-864 red LED beacon	120/240 VAC	12004-D664-R13-001	3	12004-D664-R13-001	3	12004-D564-B13-001	3
L-810 single LED light	120/240 VAC	12004-RTO-CR27-001	3	12004-RTO-CR27-001	3	12004-RTO-2R07-001	3
Photocontrol	120/240 VAC	70439	1	70439	1	70439-X2	1

System component	Input	Ordinary location		NEMA 4X		Class I, Division 2	
		Model	Qty.	Model	Qty.	Model	Qty.
Controller	120 VAC	OLC72070-3-0/3R-IM-N4-ALED	1	OLC72070-3-0/3R-IM-S4-ALED	1	OLC72070-3-0/3R-IM-X4-ALED	1
	220-240 VAC	OLC72270-3-0/3R-IM-N4-ALED	1	OLC72270-3-0/3R-IM-S4-ALED	1	OLC72270-3-0/3R-IM-X4-ALED	1
L-864 red LED beacon	120/240 VAC	12004-D664-R13-001	3	12004-D664-R13-001	3	12004-D564-B13-001	3
L-810 double LED light	120/240 VAC	12004-RTO-CR27-002	3	12004-RTO-CR27-002	3	12004-RTO-2R07-002	3
Photocontrol	120/240 VAC	70439	1	70439	1	70439-X2	1

Smokestack configurations: Dual red and white lights

Configuration examples for reference only.
Contact the Engineered-to-Order team at SYR-ETO-RFQ@Eaton.com for specific project requirements.

Configuration Key

Single LED low intensity red obstruction side marker

Double LED low intensity red obstruction side marker

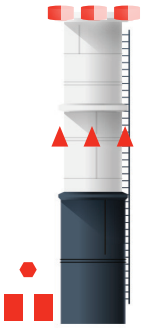
LED medium intensity red beacon

LED medium intensity dual red/white beacon

Obstruction lighting controlller

Photocontrol assembly

Height: 200-350 feet
Diameter: 20 feet or less



System component	Input	Ordinary location		NEMA 4X		Class I, Division 2	
		Model	Qty.	Model	Qty.	Model	Qty.
Primary controller*	120 VAC	OLC429CM-1-1RW-3R/0-IM-WBU-N4	1	OLC429CM-1-1RW-3R/0-IM-WBU-S4	1	OLC740M-1RW-3R/0-IM-WBU-X4	1
	220-240 VAC	OLC429CM-2-1RW-3R/0-IM-WBU-N4	1	OLC429CM-2-1RW-3R/0-IM-WBU-S4	1	OLC742M-1RW-3R/0-IM-WBU-X4	1
Secondary controller	120 VAC	OLC429CS-1-1RW-0/0-I-WBU-N4	2	OLC429CS-1-1RW-0/0-I-WBU-S4	2	OLC740S-1RW-0/0-I-WBU-X4	2
	220-240 VAC	OLC429CS-2-1RW-0/0-I-WBU-N4	2	OLC429CS-2-1RW-0/0-I-WBU-S4	2	OLC742S-1RW-0/0-I-WBU-X4	2
L-864/L-865 LED beacon	120/240 VAC	12004-D1CWFH429	3	12004-D1CWFH429	3	12004-DHZBFHD4C	3
L-810 single LED light	120/240 VAC	12004-RTO-CR27-001	3	12004-RTO-CR27-001	3	12004-RTO-2R07-001	3
Photocontrol	120/240 VAC	70438	1	70438	1	70438-X2	1
Power cable for beacons†	–	9802-004	–	9802-004	–	9802-004	–

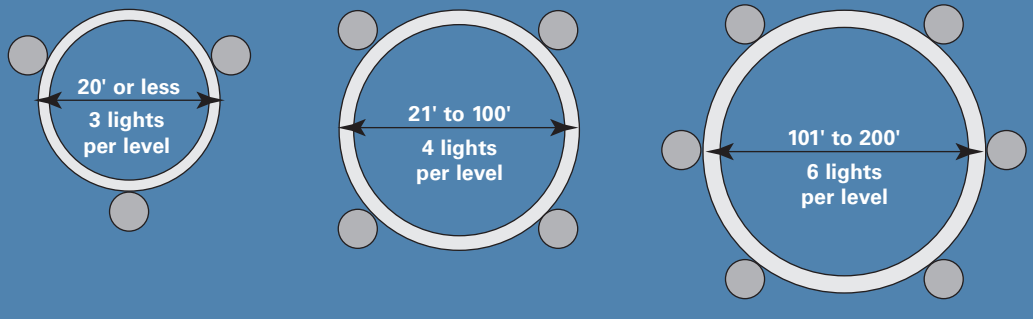
*Red lights for night operation only. White lights for day; red lights for night.
†Separate cable required for each beacon; sold in 50 ft. increments. Required for dual flash heads only.

Height: 200-350 feet
Diameter: 20 feet or less

System component	Input	Ordinary location		NEMA 4X		Class I, Division 2	
		Model	Qty.	Model	Qty.	Model	Qty.
Primary controller*	120 VAC	OLC429CM-1-1RW-0/3R-IM-WBU-N4-ALED	1	OLC429CM-1-1RW-0/3R-IM-WBU-S4-ALED	1	OLC740M-1RW-0/3R-IM-WBU-X4-ALED	1
	220-240 VAC	OLC429CM-2-1RW-0/3R-IM-WBU-N4-ALED	1	OLC429CM-2-1RW-0/3R-IM-WBU-S4-ALED	1	OLC742M-1RW-0/3R-IM-WBU-X4-ALED	1
Secondary controller	120 VAC	OLC429CS-1-1RW-0/0-I-WBU-N4	2	OLC429CS-1-1RW-0/0-I-WBU-S4	2	OLC740S-1RW-0/0-I-WBU-X4	2
	220-240 VAC	OLC429CS-2-1RW-0/0-I-WBU-N4	2	OLC429CS-2-1RW-0/0-I-WBU-S4	2	OLC742S-1RW-0/0-I-WBU-X4	2
L-864/L-865 LED beacon	120/240 VAC	12004-D1CWFH429	3	12004-D1CWFH429	3	12004-DHZBFHD4C	3
L-810 double LED light	120/240 VAC	12004-RTO-CR27-002	3	12004-RTO-CR27-002	3	12004-RTO-2R07-002	3
Photocontrol	120/240 VAC	70438	1	70438	1	70438-X2	1
Power cable for beacons†	–	9802-004	–	9802-004	–	9802-004	–

*Red lights for night operation only. White lights for day; red lights for night.
†Separate cable required for each beacon; sold in 50 ft. increments. Required for dual flash heads only.

Number of lights per structure diameter:



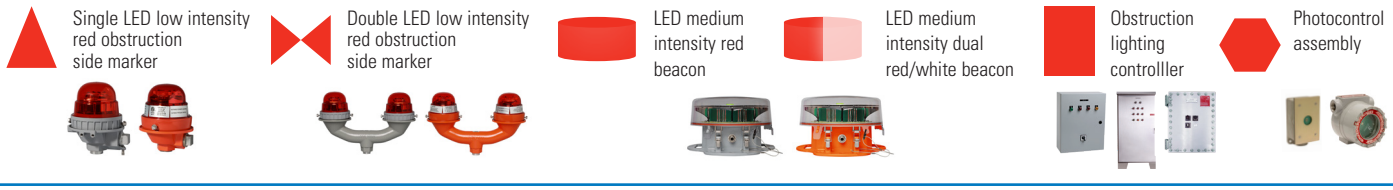
NOTE:
Number of lights per level is the minimum

Examples of obstruction lighting systems

Tower configurations: red lights only; dual red and white lights

Configuration examples for reference only.
Contact the Engineered-to-Order team at SYR-ETO-RFQ@Eaton.com for specific project requirements.

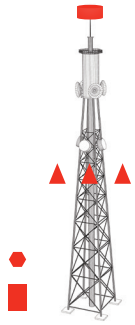
Configuration Key



Height: 150 feet and lower

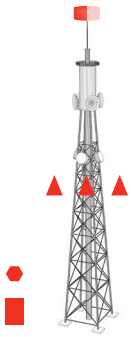
System component	Input	Ordinary location		NEMA 4X		Class I, Division 2	
		Model	Qty.	Model	Qty.	Model	Qty.
Controller	120 VAC	OLC72070-0-0/1R-IM-N4	1	OLC72070-0-0/1R-IM-S4	1	OLC72070-0-0/1R-IM-X4	1
	220-240 VAC	OLC72270-0-0/1R-IM-N4	1	OLC72270-0-0/1R-IM-S4	1	OLC72270-0-0/1R-IM-X4	1
L-810 double LED light	120/240 VAC	12004-RTO-CR27-002	1	12004-RTO-CR27-002	1	12004-RTO-2R07-002	1
Photocontrol	120/240 VAC	70439	1	70439	1	70439-X2	1

Height: 151-350 feet



System component	Input	Ordinary location		NEMA 4X		Class I, Division 2	
		Model	Qty.	Model	Qty.	Model	Qty.
Controller	120 VAC	OLC72070-1-3R/0-IM-N4-AV	1	OLC72070-1-3R/0-IM-S4-AV	1	OLC72070-1-3R/0-IM-X4-AV	1
	220-240 VAC	OLC72270-1-3R/0-IM-N4-AV	1	OLC72270-1-3R/0-IM-S4-AV	1	OLC72270-1-3R/0-IM-X4-AV	1
L-864 red LED beacon	120/240 VAC	12004-D664-R13-001	1	12004-D664-R13-001	1	12004-D564-B13-001	1
L-810 single LED light	120/240 VAC	12004-RTO-CR27-001	3	12004-RTO-CR27-001	3	12004-RTO-2R07-001	3
Photocell	120/240 VAC	70439	1	70439	1	70439-X2	1

Height: 200-350 feet



System component	Input	Ordinary location		NEMA 4X		Class I, Division 2	
		Model	Qty.	Model	Qty.	Model	Qty.
Controller*	120 VAC	OLC429CM-1-1RW-3R/0-IM-WBU-N4-AV	1	OLC429CM-1-1RW-3R/0-IM-WBU-S4-AV	1	OLC740M-1RW-3R/0-IM-WBU-X4-AV	1
	220-240 VAC	OLC429CM-2-1RW-3R/0-IM-WBU-N4-AV	1	OLC429CM-2-1RW-3R/0-IM-WBU-S4-AV	1	OLC742M-1RW-3R/0-IM-WBU-X4-AV	1
L-864/L-865 LED beacon	120/240 VAC	12004-D1CWFH429	1	12004-D1CWFH429	1	12004-DHZBFHD4C	1
L-810 single LED light	120/240 VAC	12004-RTO-CR27-001	3	12004-RTO-CR27-001	3	12004-RTO-2R07-001	3
Photocell	120/240 VAC	70438	1	70438	1	70438-X2	1
Power cable for beacons†	–	9802-004	–	9802-004	–	9802-004	–

*Red lights for night operation only. White lights for day; red lights for night.
†Separate cable required for each beacon; sold in 50 ft. increments. Required for dual flash heads only.

Tank and building configurations: red lights only

Configuration examples for reference only.
Contact the Engineered-to-Order team at SYR-ETO-RFQ@Eaton.com for specific project requirements.

Configuration Key

Single LED low intensity red obstruction side marker

Double LED low intensity red obstruction side marker

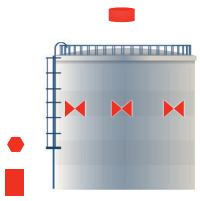
LED medium intensity red beacon

LED medium intensity dual red/white beacon

Obstruction lighting controlller

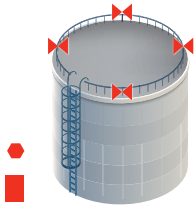
Photocontrol assembly

Height: 150 feet or higher
Diameter: 20 feet or less



System component	Input	Ordinary location		NEMA 4X		Class I, Division 2	
		Model	Qty.	Model	Qty.	Model	Qty.
Controller	120 VAC	OLC72070-1-0/3R-IM-N4-ALED	1	OLC72070-1-0/3R-IM-S4-ALED	1	OLC72070-1-0/3R-IM-X4-ALED	1
	220-240 VAC	OLC72270-1-0/3R-IM-N4-ALED	1	OLC72270-1-0/3R-IM-S4-ALED	1	OLC72270-1-0/3R-IM-X4-ALED	1
L864 Red LED Beacon	120/240VAC	12004-D664-R13-001	1	12004-D664-R13-001	1	12004-D564-B13-001	1
L-810 double LED light	120/240 VAC	12004-RTO-CR27-002	3	12004-RTO-CR27-002	3	12004-RTO-2R07-002	3
Photocontrol	120/240 VAC	70439	1	70439	1	70439-X2	1

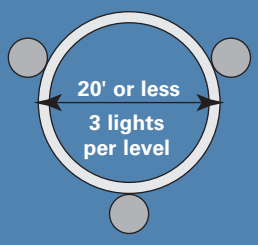
Height: 150 feet or higher
Diameter: 21-100 feet
Length/depth: 150 feet or less

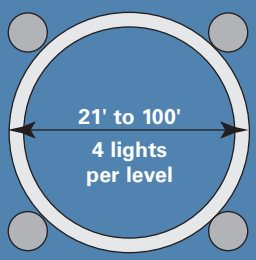


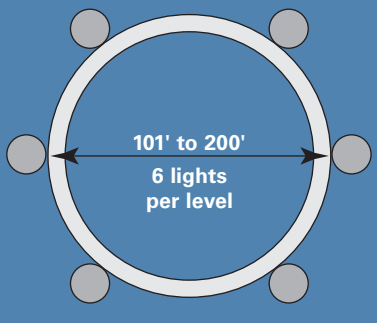
System component	Input	Ordinary location		NEMA 4X		Class I, Division 2	
		Model	Qty.	Model	Qty.	Model	Qty.
Controller	120 VAC	OLC72070-0-0/4R2*-IM-N4	1	OLC72070-0-0/4R2*-IM-S4	1	OLC72070-0-0/4R2*-IM-X4	1
	220-240 VAC	OLC72270-0-0/4R2*-IM-N4	1	OLC72270-0-0/4R2*-IM-S4	1	OLC72270-0-0/4R2*-IM-X4	1
L-810 double LED light	120/240 VAC	12004-RTO-CR27-002	4	12004-RTO-CR27-002	4	12004-RTO-2R07-002	4
Photocontrol	120/240 VAC	70439	1	70439	1	70439-X2	1

*0/4R2 = two control outputs. Each output controls and monitors two steady burning L-810 double obstruction lights.

Number of lights per structure diameter:







NOTE:
Number of lights per level is the minimum

Harsh and heavy industrial areas

Spare parts: L-810, L-864 and L-865

RED MEDIUM INTENSITY LIGHT SYSTEMS WITH INFRARED

Model	Description
12004-D664-R13-001	Medium intensity L-864 red beacon with IR
12004-RTO-CR27-001	Low intensity L-810 120-240 single red low intensity light with IR
12004-RTO-CR27-002	Low intensity L-810 120-240 VAC red double low intensity light with IR
3003-024	120 VAC alarm relay
3003-025	240 VAC alarm relay
70593	120-277 VAC surge board for red lights and incoming power
70424	Current sensor for red lights
1001-004	Fuse minimum quantity - 5

INFRARED DUAL MEDIUM INTENSITY RED/ WHITE LIGHT SYSTEMS

Model	Description
12004-D1RW0084W	White driver board
12004-D1CW0084R	Red driver board
12004-D1RW0084FM	Microfilter board
12004-D1RW0084CP	Capacitor board
3003-024	120 VAC alarm relay
3003-025	240 VAC alarm relay
70424	Current sensor for low intensity lights
70593	120-277 VAC surge board for low intensity lights
12004-D1CWFH409	Dual medium intensity flash head with IR
12004-RTO-CR27-001	Low intensity 120-240 single red low intensity light with IR
12004-RTO-CR27-002	Low intensity 120-240 VAC red double low intensity light with IR
1001-004	Fuse minimum quantity - 5
12004-D1RW-9005	AC/DC power supply 120 VAC; 48 VDC
12004-D7202-SUR	AC filter surge board

WHITE MEDIUM INTENSITY LIGHT SYSTEMS

Model	Description
12004-D1RW0084W	White driver board
12004-D1RW0084FM	Microfilter board
12004-D1RW0084CP	Capacitor board
3003-024	120 VAC alarm relay
3003-025	240 VAC alarm relay
12004-D1CWFH409	Dual medium intensity flash head
12004-D1RW-9005	AC/DC power supply 120 VAC; 48 VDC
12004-D7202-SUR	AC filter surge board
3003-024	120 VAC alarm relay
3003-025	240 VAC alarm relay

Class I, Division 2 hazardous areas

Spare parts: L-810, L-864 and L-865

RED MEDIUM INTENSITY LIGHT SYSTEMS

Model	Description
12004-D564-B13-001	Class I, Div. 2 medium intensity red beacon
12004-RTO-2R07-001	Class I, Div. 2 red single low intensity light
12004-RTO-2R07-002	Class I, Div. 2 red double low intensity light
3003-024	120 VAC alarm relay
3003-025	240 VAC alarm relay
70593	120-277 VAC surge board for red lights and incoming power
70424	Current sensor for red lights
1001-004	Fuse minimum quantity - 5

WHITE MEDIUM INTENSITY LIGHT SYSTEMS

Model	Description
12004-D1RW0084W	White driver board
12004-D1RW0084FM	Microfilter board
12004-D1RW0084CP	Capacitor board
3003-024	120 VAC alarm relay
3003-025	240 VAC alarm relay
12004-DHZBFHD4C	Dual medium intensity flash head Class I, Div. 2
12004-D1RW-9005	AC/DC power supply 120 VAC; 48 VDC
12004-D7202-SUR	AC filter surge board
3003-024	120 VAC alarm relay
3003-025	240 VAC alarm relay

DUAL MEDIUM INTENSITY RED/WHITE LIGHT SYSTEMS

Model	Description
12004-D1RW0084W	White driver board
12004-D1RW0084R	Red driver board
12004-D1RW0084FM	Microfilter board
12004-D1RW0084CP	Capacitor board
3003-024	120 VAC alarm relay
3003-025	240 VAC alarm relay
70424	Current sensor for low intensity lights
70593	120-277 VAC surge board for low intensity lights
12004-DHZBFHD4C	Dual medium intensity flash head Class I, Div. 2
12004-RTO-2R07-001	Low intensity 120-240 VAC single red low intensity light Class I, Div. 2
12004-RTO-2R07-002	Low intensity 120-240 VAC red double low intensity light Class I, Div. 2
1001-004	Fuse minimum quantity - 5
12004-D1RW-9005	AC/DC power supply 120 VAC; 48 VDC
12004-D7202-SUR	AC filter surge board

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Publication No. CA403004EN
January 2025

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