"Steady On" Beacons, "Rotating" Beacons and "Flashing" Strobe Lights

Luminaires for Hazardous and Non-Hazardous Locations

11L Visual Signaling Devices
"Steady On" Beacons, "Rotating" Beacons and "Flashing" Strobe Lights
Luminaires for Hazardous and Non-Hazardous Locations

Application:

- for use in hazardous and non-hazardous areas (as shown in the quick selector chart shown below).
- to supplement audible signals, especially in high noise areas.
- as visual signals or warning lights.
- to identify the location of safety equipment such as emergency shower, eye wash stations, and emergency telephones, fire extinguishers and emergency stop switches.
- for status indication of machinery or processes.
- to indicate dangerous areas or areas requiring caution.
- to signal dangerous or hazardous conditions.

Considerations for Selection:

Environmental:
- What is the hazardous area classification (NEC/CEC) of the location in which the luminaire will be installed?

Signaling Requirements:
- What will the visual signal be used for (Communicating, alerting, warning)?

Physical Arrangements:
- Type of luminaire mounting needed.

Quick Selector Chart:

Series	Hazardous Area Suitability	Lamp Watts	Volts	No. of Lamps
VF - "Steady On" Beacons	CL. I, Div 2, Groups A, B, C, D CL. I, Zone 2, Group IIC Wet Locations - 3, 3R	(2) 9W	120V 60 Hz.	2
EX Strobes, Steady-On Beacons, & Rotating Beacons	Cl. I, Div. I, Groups C,D Cl. I, Zone 1 & 2, Group IIB Cl. II, Div. I, Groups E,F,G Wet Locations - 4X, Marine	Xenon Strobe Halogen Beacon	120 VAC 24 VDC 12-48 VDC 24-28 VDC	
VDAS Strobes	CL. I, Div 2, Groups A, B, C, D CL. I, Zone 2, Group IIC CL. II, Div 2, Groups F, G; Cl. III Wet Locations - 3, 3R, 4, 4X	Xenon Strobe	120V 60 Hz 240V 60 Hz 12-24VDC	1

Warning and Visual Indication Colors Available	Typical Uses
Green	Emergency Shower or Eye Wash Station
Blue	Emergency Telephones
Red	Danger, Equipment Operating
Yellow	Caution
Clear	Equipment end of cycle

VF "Steady On" Beacon

Compact Fluorescent Warning and Visual Indication Light

- Cl. I, Div. 2, Groups A, B, C, D
- Cl. I, Zone 2, Groups IIC
- Wet Locations
- 3, 3R
- Green - Safety Shower
- Blue - Emergency Telephones
- Red - Danger
- Amber - Warning
- Visual Signal

Application:

VF series ''Steady On'' fluorescent beacons are used indoors or outdoors:
- where the energy efficiency and long life of compact fluorescent lamps are desired
- for continuous signaling requirements.
- where a continuous ''Steady-On'' fluorescent light signal is required
- where ambient noise makes audible signals difficult to hear.
- as visual signals or warning lights on loading docks; at obstructions, exits or entrances.
- for identifying the location of safety equipment such as safety showers or emergency telephones.
- for call signals.
- for status indication or area lighting on offshore rigs, mines, refineries etc.
- in locations which are hazardous due to the presence of flammable vapors or gases and where dampness or corrosion are present.
- to identify a potentially dangerous obstacle.
- as a continuous source to warn or communicate.

Typical Applications are:
- Green - Identify safety shower locations
- Blue - Identify emergency telephones
- Amber - Caution signal
- Red - Danger signal
- Red & Amber - Emergency situations
- Blue & Red - Security or malfunctioning equipment.
- Green & Clear - Equipment end of cycle.

Features:

- Extremely energy efficient, only 18 watt (2-9 watt compact fluorescent lamps)
- Packs considerable punch for ample visibility even in harsh enviroments.
- Compact size and light weight allow adaptation and easy installation in many industrial applications
- Cast copper-free aluminum (less than 0.4 of 1% copper) construction and epoxy powder finish provide excellent resistance to corrosion
- Variety of mounting arrangements to suit any lighting layout – pendant, ceiling, wall bracket, angle stanchion.
- Glass globes are internally fluted and stippled to enhance visibility. Exteriors are smooth to shed dust
- Grounding wire for safety

Standard Materials:

- Bodies and guards – copper-free aluminum (less than 0.4 of 1%)
- Globes – glass

Standard Finishes:

- Copper-free aluminum – powder epoxy finish

Electrical Ratings:

- Input voltage – 120 VAC, 60 hertz
- Wattages: 18W (Two 9W lamps)

Certifications and Compliances:

NEC and CEC:
Class I, Division 2, Groups A, B, C, D
Class I, Zone 2
- UL Standards
  844
  1598 Luminaires
- CSA standards
  c22.2 No. 137

Options:

Description	Suffix added to Cat. No.
• 250 volt Nameplate for export applications	/250

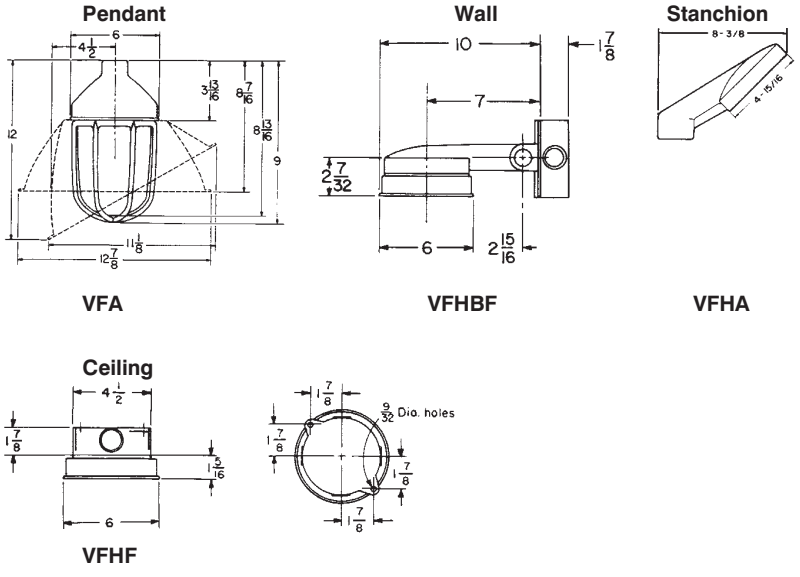
Weights:

Luminaire Type	2-Lamp Luminaire With Globe & Guard (lbs.)
VFA	5
VFHF	5¼
VFHBF	7½

Temperature Performance Data:

Style 1 & 2 Lamp	Class I Div. 2	Max. Ambient	Supply Wire °C	Minimum Operating
9W	T3B	40°C	75°C	–4°C (25°F)

Dimensions



Ordering Information:

Style	Catalog Number - by Globe Color				
	Red	Amber	Green	Blue	Clear
Pendant	VFA222GRP	VFA222GAP	VFA222GGP	VFA222GBP	VFA222GP
Wall	VFHBF222GRP	VFHBF222GAP	VFHBF222GGP	VFHBF222GBP	VFHBF222GP
Ceiling	VFHF222GRP	VFHF222GAP	VFHF222GGP	VFHF222GBP	VFHF222GP
Stanchion	VFHA422GRP	VFHA422GAP	VFHA422GGP	VFHA422GBP	VFHA422GP

11L Hazard•Gard EX Series Visual Signaling Devices

Explosionproof Fire Alarm Strobe Light

NEW!

Class I, Division 1, Groups C & D
Class I, Zone 1 & 2, Group IIB
Class II, Division 1, Groups E,F,G ● Class III
UL 1638, 1203 and 1971 Listed
NEMA 4X watertight, IP 66

The **Hazard•Gard™ EXFASC Series** is a visual fire alarm signaling device for hazardous areas. The EXFASC Series strobes are UL 1971 Listed for indoor signaling applications for the hearing impaired in non-sleeping areas. They are also UL listed for Type 3R, 4X installations. The strobes are available for pendant, wall and ceiling mounts.

The **EXFASC Series Fire Alarm Explosionproof Strobe** contains a supervisory diode for use in fire alarm applications. Under normal operation the diode is reversed biased, meaning it blocks voltage from being applied to the strobe light and prevents it from lighting. When a fire-initiating device such as a smoke alarm is activated, the diode's polarity is reversed through a fire alarm panel. The diode becomes forward biased, allowing voltage to the device and activating the strobe.

Primary Applications

- Visual fire alarm signaling device for hazardous areas

Typical Industries

- Energy exploration
- Utilities
- Wastewater treatment plants
- Pulp & paper plants
- Petrochemical plants
- Petroleum refineries
- Oil rigs

Key Features and Benefits

- Meets NFPA requirements for fire safety warning devices.
- State of the art electronic design (full wave rectified design).
  - Low current draw is efficient.
  - 24VDC regulated full wave rectified
  - Limited in-rush current favorable to other fire alarm system components.
  - Proven, reliable circuitry designed specifically for use with fire alarm control panels.
- Available in pendant, wall and ceiling mount.
- Strobe light produces 65 flashes per minute.
- Factory sealed — no external seals required.
- Quick connect — Strobe fixture threads onto mounting module for easy installation.
- Small compact size — ceiling mount is 13¾-inch long.

Certifications and Compliances

- Class I, Division 1, Groups C & D
- Class I, Zone 1 & 2, Group IIB
- Class II, Division 1, Groups E, F & G
- Class III
- UL 1638 and 1203 Listed
- UL 1971 Listed for indoor visual signaling for the hearing impaired in non-sleeping areas
- cUL Listed C22.2 No. 205
- NEMA 4X watertight, IP 66

Materials & Finishes

- Body, mounting modules and guard — Copper-free aluminum
- Globe — Heat and impact-resistant glass
- Gaskets — Silicone
- External hardware — Stainless steel
- Internal components — Solid-state electronics in a moistureresistant and heat-dissipating epoxy
- Epoxy powder coated for corrosion resistance

Ratings

- 16-33VDC
- Operating Current: 1.08 - 0.83 amps
- Peak Candlepower: 800,000

Hub Size

- 3/4-inch NPT pendant, ceiling and wall mount

Ordering Information

STEP 1 Order Strobe Type

Catalog Number	Voltage	Lens Color	NEMA Rating
FIRE ALARM RATED EXPLOSIONPROOF STROBES			
EXFASC301/16 33	24VDC regulated full wave rectified	Clear	3R, 4X

STEP 2 Order Mounting Module

Catalog Number	Hub Size	Mounting Style
EVMP2	¾″	Pendant
EV22 & EV87	¾″	Wall
EV22	¾″	Ceiling
EVMJ4	1¼″	Stanchion

Temperature Performance Data

See page 944.

COOPER Crouse-Hinds

Hazard●Gard EX Series Visual Signaling Devices

Explosionproof Strobe Light

Class I, Division 1, Groups C & D
Class I, Zone 1 & 2, Group IIB
Class II, Division 1, Groups E,F,G ● Class III
UL 1638, 1203 and 844 Listed
1598A Marine Listed (120VAC and 24VDC only)
NEMA 4X watertight, IP 66

11L

NEW!

Cooper Crouse-Hinds Hazard●Gard **EXS and EXDS Series Explosionproof Strobe Lights** are designed for installation indoors and outdoors in locations which are hazardous due to the presence of flammable vapors or gases, ignitible dusts or ignitible fibers and flyings. The units are UL listed for Type 3R and 4X installations. The 120V and 24VDC models are Marine Rated. The strobes are available for pendant, wall, stanchion and ceiling mounts, and come in six different globe colors.

The **EXDS Series** is diode polarized for use in electrically supervised circuits. Electrically supervised circuits are typically used in life-safety or security applications.

Under normal operation the diode is reversed biased, meaning it blocks voltage from being applied to the strobe and prevents it from lighting. When an initiating device such as a smoke detector is activated, the diode's polarity is reversed through a circuit panel. The diode becomes forward biased, allowing voltage to the device and activating the strobe.

Primary Applications

- Condition signaling
- Equipment obstruction warning
- Security alert
- Emergency evacuation signaling
- In areas where audible signals cannot be heard

Typical Industries

- Utility gas plants
- Petroleum refineries
- Wastewater treatment plants
- Chemical & petrochemical
- Mining
- Pulp & paper

Key Features and Benefits

- Strong strobe signal that produces 65 flashes per minute.
- Compact design will not obstruct in low ceiling or small areas. Ceiling mount is only 13¾-inch long.
- Quick connect — Strobe fixture threads onto mounting module for easy installation.
- Factory sealed — No external seals required.
- Available in pendant, wall, stanchion and ceiling mount.
- Available in six different globe colors — clear, red, blue, amber, green and magenta.
- Silicone gasket seals out dirt and moisture.

Certifications and Compliances

- Class I, Division 1, Groups C & D
- Class I, Zone 1 & 2, Group IIB
- Class II, Division 1, Groups E, F & G
- Class III
- UL and cUL 1638, UL 1203 and UL 844 Listed
- 1598A Marine Listed (120VAC and 24VDC only)
- cUL Listed C22.2 No. 205
- NEMA 4X watertight, IP 66

Materials & Finishes

- Body, mounting modules and guard — Copper-free aluminum
- Globe — Heat and impact-resistant glass
- Gaskets — Silicone
- External hardware — Stainless steel
- Internal components — Solid-state electronics in a moistureresistant and heat-dissipating epoxy
- Epoxy powder coated for corrosion resistance

Ratings

- 120VAC (EXS), 12–48VDC (EXSNM) and 24VDC nominal, voltage operating range is 16–33VDC (EXDS)
- Operating Current: 0.10 amps at 120VAC
  1.2–3.8 amps at 12–48VDC
  0.8 amps at 24VDC
- Peak Candlepower: 800,000

Hub Size

- 3/4-inch NPT pendant, ceiling and wall mount
- 1¼-inch NPT stanchion mount

11L Hazard•Gard EX Series Visual Signaling Devices

Explosionproof Strobe Light

NEW!

Class I, Division 1, Groups C & D
Class I, Zone 1 & 2, Group IIB
Class II, Division 1, Groups E,F,G ● Class III
UL 1638, 1203 and 844 Listed
1598A Marine Listed (120VAC and 24VDC only)
NEMA 4X watertight, IP 66

Ordering Information

STEP 1 Order Strobe Type

Catalog Number	Voltage	Lens Color	NEMA Rating
EXPLOSIONPROOF STROBES			
EXS301A/120	120VAC	Amber	3R, 4X, Marine
EXS301B/120	120VAC	Blue	3R, 4X, Marine
EXS301C/120	120VAC	Clear	3R, 4X, Marine
EXS301G/120	120VAC	Green	3R, 4X, Marine
EXS301M/120	120VAC	Magenta	3R, 4X, Marine
EXS301R/120	120VAC	Red	3R, 4X, Marine
EXSNM301A/12 48	12–48VDC	Amber	3R, 4X
EXSNM301B/12 48	12–48VDC	Blue	3R, 4X
EXSNM301C/12 48	12–48VDC	Clear	3R, 4X
EXSNM301G/12 48	12–48VDC	Green	3R, 4X
EXSNM301M/12 48	12–48VDC	Magenta	3R, 4X
EXSNM301R/12 48	12–48VDC	Red	3R, 4X
DIODE POLARIZED EXPLOSIONPROOF STROBES			
EXDS301A/24	24VDC	Amber	3R, 4X, Marine
EXDS301B/24	24VDC	Blue	3R, 4X, Marine
EXDS301C/24	24VDC	Clear	3R, 4X, Marine
EXDS301G/24	24VDC	Green	3R, 4X, Marine
EXDS301M/24	24VDC	Magenta	3R, 4X, Marine
EXDS301R/24	24VDC	Red	3R, 4X, Marine

STEP 2 Order Mounting Module

Catalog Number	Hub Size	Mounting Style
EVMP2	¾″	Pendant
EV22 & EV87	¾″	Wall
EV22	¾″	Ceiling
EVMJ4	1¼″	Stanchion

Temperature Performance Data

	Ambient Max. Temp.	Supply Wire	Class I Div. 1, 2 Group C, D Class I, Zone 1 Group II B	Class II, Class III Div. 1 Group E, F, G	Class II, Class III Div. 2 Group F, G
EXFASC Series Fire Alarm Voltage 24VDC Regulated Full Wave Rectified (Operating Range 16-33VDC) (Marine Listed)	40°C 55°C	75°C 90°C	T6(85°C) T5(100°C)	T4A(120°C) T4(135°C)	T4A(120°C) T4(135°C)
EXS Series Strobe Light Voltage 120VAC (Marine Listed)	40°C 55°C **65°C**	75°C 90°C **105°C**	T6(85°C) T6(85°C) **T6(85°C)**	T4A(120°C) T4(135°C) **T4(135°C)**	T4A(120°C) T4(135°C) **T4(135°C)**
EXSNM Series Strobe Light Voltage 12-48 VDC (Not Marine Listed)	40°C 55°C **65°C**	75°C 90°C **105°C**	T6(85°C) T6(85°C) **T6(85°C)**	T4A(120°C) T4(135°C) **T4(135°C)**	T4A(120°C) T4(135°C) **T4(135°C)**
EXDS Series Strobe Light-Diode Polarized Voltage 24 VDC (Marine Listed)	40°C 55°C	75°C 90°C	T6(85°C) T5(100°C)	T4A(120°C) T4(135°C)	T4A(120°C) T4(135°C)

Hazard●Gard EX Series Visual Signaling Devices

Explosionproof Steady-On Beacons

Class I, Division 1, Groups C & D
Class I, Zone 1 & 2, Group IIB
Class II, Division 1, Groups E,F,G ● Class III
UL 1638, 1203 and 844 Listed
1598A Marine Listed
NEMA 4X watertight, IP 66

NEW!

Cooper Crouse-Hinds Hazard●Gard **EXSO and EXDSO (Diode Polarized) Series Explosionproof Steady On Beacons** are designed for installation in hazardous locations where a visual signal is required for tough environmental conditions involving corrosives, water, dust and extreme temperature.

The units are UL listed for Type 3R, 4X and marine installations. The steady-on beacons are available for pendant, wall, stanchion and ceiling mounts, and come in six different globe colors.

Typical industrial and commercial applications include food processing plants, refineries, mines, tankers, laboratories, sewage treatment plants, off-shore oil rigs, water and filtration plants and chemical plants.

The diode polarized steady-on beacon is used in electrically supervised circuitry for life-safety or security applications.

Primary Applications

- Safety lighting
- Exit or entrance lights
- Obstacle warning
- For identifying the location of safety equipment such as showers or emergency telephones
- Continuous source to communicate

Typical Industries

- Chemical plants
- Storage handling
- Dust conveyor systems
- Energy exploration
- Textile mills
- Flour and feed mills

Key Features and Benefits

- Powerful halogen light source for clear visual indication.
- Available in six different globe colors — amber, blue, clear, green, magenta and red.
- Factory sealed — no external seals required.
- Quick connect — Steady-on beacon fixture threads onto mounting module for easy installation.
- Small compact size — ceiling mount is 13¾-inch long.
- Available in pendant, wall, stanchion and ceiling mount.

Certifications and Compliances

- Class I, Division 1, Groups C & D
- Class I, Zone 1 & 2, Group IIB
- Class II, Division 1, Groups E, F & G
- Class III
- UL and cUL 1638, UL 1203 and UL 844 Listed
- 1598A Marine Listed
- NEMA 4X watertight, IP 66

Materials & Finishes

- Body, mounting modules and guard — Copper-free aluminum
- Globe — Heat and impact-resistant glass
- Gaskets — Silicone
- External hardware — Stainless steel
- Internal components — Solid-state electronics in a moistureresistant and heat-dissipating epoxy
- Epoxy powder coated for corrosion resistance

Ratings

- 120VAC and 24–28VDC
- Operating Current: 0.35 amps at 120VAC (EXSO) 0.8 amps at 24–28VDC (EXDSO, diode polarized)
- Peak Candlepower: 3328

Hub Size

- 3/4-inch NPT pendant, ceiling and wall mount
- 1¼-inch NPT stanchion mount

US: 1-866-764-5454 CAN: 1-800-265-0502

11L Hazard•Gard EX Series Visual Signaling Devices

Explosionproof Steady-On Beacons

NEW!

Class I, Division 1, Groups C & D
Class I, Zone 1 & 2, Group IIB
Class II, Division 1, Groups E,F,G ● Class III
UL 1638, 1203 and 844 Listed
1598A Marine Listed
NEMA 4X watertight, IP 66

Ordering Information

STEP 1 Order Steady-On Beacon Type

Catalog Number	Voltage	Lens Color	NEMA Rating
EXPLOSIONPROOF STEADY-ON BEACONS			
EXSO301A/120	120VAC	Amber	3R, 4X, Marine
EXSO301B/120	120VAC	Blue	3R, 4X, Marine
EXSO301C/120	120VAC	Clear	3R, 4X, Marine
EXSO301G/120	120VAC	Green	3R, 4X, Marine
EXSO301M/120	120VAC	Magenta	3R, 4X, Marine
EXSO301R/120	120VAC	Red	3R, 4X, Marine
DIODE POLARIZED EXPLOSIONPROOF STEADY-ON BEACONS			
EXDSO301A/24 28	24–28VDC	Amber	3R, 4X, Marine
EXDSO301B/24 28	24–28VDC	Blue	3R, 4X, Marine
EXDSO301C/24 28	24–28VDC	Clear	3R, 4X, Marine
EXDSO301G/24 28	24–28VDC	Green	3R, 4X, Marine
EXDSO301M/24 28	24–28VDC	Magenta	3R, 4X, Marine
EXDSO301R/24 28	24–28VDC	Red	3R, 4X, Marine

STEP 2 Order Mounting Module

Catalog Number	Hub Size	Mounting Style
EVMP2	¾″	Pendant
EV22 & EV87	¾″	Wall
EV22	¾″	Ceiling
EVMJ4	1¼″	Stanchion

Temperature Performance Data

	Ambient Max. Temp.	Supply Wire	Class I Div. 1, 2 Group C, D Class I, Zone 1 Group II B	Class II, Class III Div. 1 Group E, F, G	Class II, Class III Div. 2 Group F, G
EXSO Series Steady-On Beacon	40°C	75°C	T6(85°C)	T4A(120°C)	T4A(120°C)
Voltage 120VAC	55°C	90°C	T5(100°C)	T4(135°C)	T4(135°C)
	65°C	105°C	T5(100°C)	T4(135°C)	T4(135°C)
EXDSO Series Steady-On Beacon — Diode Polarized	40°C	75°C	T6(85°C)	T4A(120°C)	T4A(120°C)
Voltage 24-28 VDC	55°C	90°C	T6(85°C)	T4(135°C)	T4(135°C)
	65°C	105°C	T6(85°C)	T4(135°C)	T4(135°C)

COOPER Crouse-Hinds

Hazard●Gard EX Series Visual Signaling Devices

Explosionproof Rotating Beacons

Class I, Division 1, Groups C & D
Class I, Zone 1 & 2, Group IIB
Class II, Division 1, Groups E,F,G ● Class III
UL 1638, 1203 and 844 Listed
1598A Marine Listed
NEMA 4X watertight, IP 66

NEW!

Cooper Crouse-Hinds Hazard●Gard **EXR Series Explosionproof Rotating Beacons** are designed for installation in hazardous locations, such as manufacturing plants, heavy industrial facilities, refineries, chemical, petrochemical, pharmaceutical and off-shore drilling platforms.

The units are UL listed for Type 3R, 4X and marine installations. The rotating beacons are available for pendant, wall, stanchion and ceiling mounts, and come in six different globe colors.

The **EXDR Series Explosionproof Rotating Beacon** is diode polarized for use in standard 24–28VDC electrical circuits or in electrically supervised circuits. Electrically supervised circuits are typically used in life-safety or security applications.

Under normal operation in an electrically supervised circuit, the diode is reversed biased, meaning it blocks voltage from being applied to the rotating beacon and prevents it from lighting. When a warning detecting device is activated, the diode's polarity is reversed through a circuit panel. The diode becomes forward biased, allows voltage to the device and activates the rotating beacon.

Primary Applications

- Security alert
- Obstacle warning
- Areas under construction or off limits
- Equipment obstruction warning
- Status indication of a process
- Supplement audible signaling

Typical Industries

- Utility gas plants
- Wastewater treatment plants
- Chemical plants
- Pharmaceutical plants
- Refineries
- Mining

Key Features and Benefits

- Powerful halogen rotating beacon emits bright light to provide critical visual warning.
- Available in pendant, wall, stanchion and ceiling mount.
- Available in six different globe colors — amber, blue, clear, green, magenta and red.
- Beacon produces 75 rotations per minute.
- Factory sealed — No external seals required.
- Quick connect — Strobe fixture threads onto mounting module for easy installation.

Certifications and Compliances

- Class I, Division 1, Groups C & D
- Class II, Division 1, Groups E, F & G
- Class I, Zone 1 & 2, Group IIB
- Class III
- UL and cUL 1638, UL 1203 and UL 844 Listed
- 1598A Marine Listed
- NEMA 4X watertight, IP 66

Materials & Finishes

- Body, mounting modules and guard — Copper-free aluminum
- Globe — Heat and impact-resistant glass
- Gaskets — Silicone
- External hardware — Stainless steel
- Internal components — Solid-state electronics in a moistureresistant and heat-dissipating epoxy
- Epoxy powder coated for corrosion resistance

Ratings

- 120VAC (EXR) and 24–28VDC (EXDR)
- Operating Current: 0.382 amps at 120VAC
  0.8 amps at 24–28VDC
- Peak Candlepower: 3328 (EXR)
  2838 (EXDR)

Hub Size

- ¾-inch NPT pendant, ceiling and wall mount
- 1¼-inch NPT stanchion mount

11L Hazard•Gard EX Series Visual Signaling Devices

Explosionproof Rotating Beacons

NEW!

Class I, Division 1, Groups C & D
Class I, Zone 1 & 2, Group IIB
Class II, Division 1, Groups E,F,G ● Class III
UL 1638, 1203 and 844 Listed
1598A Marine Listed
NEMA 4X watertight, IP 66

Ordering Information

STEP 1 Order Rotating Beacon Type

Catalog Number	Voltage	Lens Color	NEMA Rating
EXPLOSIONPROOF ROTATING BEACONS			
EXR301A/120	120VAC	Amber	3R, 4X, Marine
EXR301B/120	120VAC	Blue	3R, 4X, Marine
EXR301C/120	120VAC	Clear	3R, 4X, Marine
EXR301G/120	120VAC	Green	3R, 4X, Marine
EXR301M/120	120VAC	Magenta	3R, 4X, Marine
EXR301R/120	120VAC	Red	3R, 4X, Marine
DIODE POLARIZED EXPLOSIONPROOF ROTATING BEACONS			
EXDR301A/24 28	24–28VDC	Amber	3R, 4X, Marine
EXDR301B/24 28	24–28VDC	Blue	3R, 4X, Marine
EXDR301C/24 28	24–28VDC	Clear	3R, 4X, Marine
EXDR301G/24 28	24–28VDC	Green	3R, 4X, Marine
EXDR301M/24 28	24–28VDC	Magenta	3R, 4X, Marine
EXDR301R/24 28	24–28VDC	Red	3R, 4X, Marine

STEP 2 Order Mounting Module

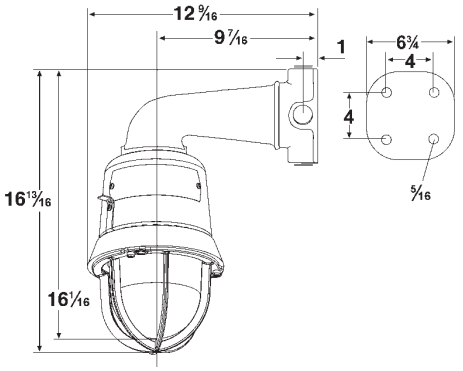
Catalog Number	Hub Size	Mounting Style
EVMP2	¾″	Pendant
EV22 & EV87	¾″	Wall
EV22	¾″	Ceiling
EVMJ4	1¼″	Stanchion

Temperature Performance Data

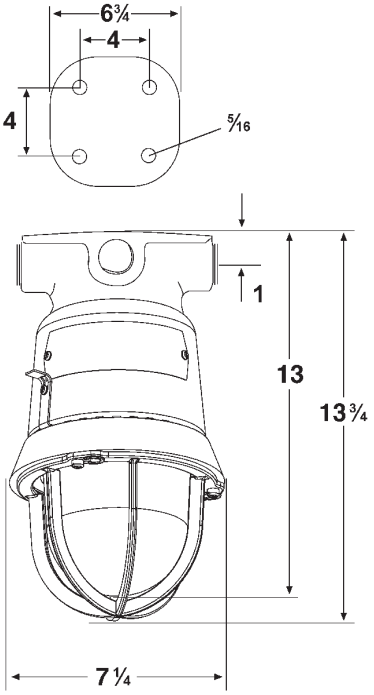
	Ambient Max. Temp.	Supply Wire	Class I Div. 1, 2 Group C, D Class I, Zone 1 Group II B	Class II, Class III Div. 1 Group E, F, G	Class II, Class III Div. 2 Group F, G
EXR Series Rotating Beacon	40°C	75°C	T6(85°C)	T4A(120°C)	T4A(120°C)
Voltage 120VAC	55°C	90°C	T5(100°C)	T4(135°C)	T4(135°C)
	65°C	105°C	T5(100°C)	T4(135°C)	T4(135°C)
EXDR Series Rotating Beacon — Diode Polarized	40°C	75°C	T6(85°C)	T4A(120°C)	T4A(120°C)
Voltage 24-28 VDC	55°C	90°C	T6(85°C)	T4(135°C)	T4(135°C)
	65°C	105°C	T6(85°C)	T4(135°C)	T4(135°C)

Dimensions & Weights

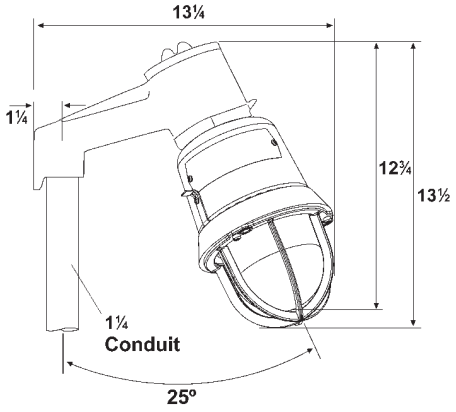
Wall Mount



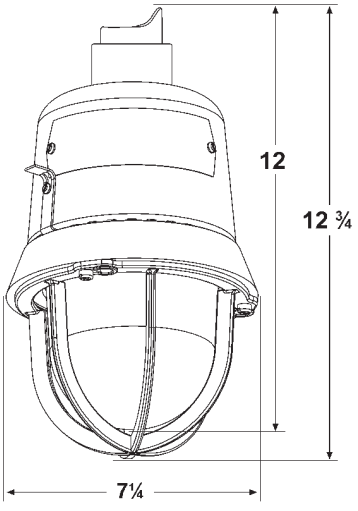
Ceiling Mount



Stanchion Mount



Pendant Mount



NET LUMINAIRE WEIGHTS

Luminaire Housing with Guard	11.0 lbs.
Add mounting modules	
Pendant	1.0 lbs.
Ceiling	1.0 lbs.
Wall	4.5 lbs.
Stanchion	2.5 lbs.

11L VDAS Strobe Lights

Warning and Visual Indication

- Cl. I, Div. 2, Groups A, B, C, D
- Cl. I, Zone 2, Group IIC
- Cl. II, Div 2, Groups F, G; Cl. III
- Wet Locations
- 3, 3R, 4, 4X

Application:

VDAS strobe lights are used:
- in areas with high noise levels
- to visually indicate warnings or hazards

Features:

- Reliable solid state components.
- Compact enclosure design provides 60 high intensity flashes per minute.
- Choice of globe colors to meet various requirements.
- Gasketed to seal out dirt and liquids.
- Designed for globe up or globe down applications.
- Easy to install.
- Lightweight corrosion-resistant copper-free aluminum construction.
- Conduit locking hub for increased safety and security.

Standard Materials:

- Body – copper-free aluminum
- Globe – LEXAN® fresnel lens

Standard Finishes:

- Body – gray epoxy

Size Range:

- ¾″ conduit

Certifications and Compliances:

- NEC and CEC:
  Class I, Division 2,
  Groups A, B, C, D
  Class I, Zone 2, IIC
- UL Standards
  844
  1598 Luminaires
- CSA Standards
  C22.2 No. 137

Electrical Ratings:

- 120, 240 VAC 50/60 Hz
- 12, 24 VDC

Photometric Data, Clear Globe

- Peak flash – 3.45 million candlepower
- Effective candlepower (light intensity if light is burning steadily) – 201 ECP

Photometric Data:

Globe Color	Output	Intensity
Clear	201	ECP
Red	46	ECP
Amber	152	ECP
Blue	38	ECP
Green	38	ECP

Operating Current:

Voltage	Operating Current
120 VAC	.3A
240 VAC	.15A
12 VDC	.9A
24 VDC	.45A

CSA Enclosure 3, 4, 5 Replacement Parts

Electronic Strobe Subassembly (includes flash tube):
120 VAC CHTFI-120H
240 VAC CHTFI-240H
12 VDC CHTFI-012
24 VDC CHTFI-024
Flash Tube . . . . . RSTC
Globe Assembly
Clear . . . . . VDAG/C
Red . . . . . VDAG/R
Green . . . . . VDAG/G
Amber . . . . . VDAG/A
Blue . . . . . VDAG/B

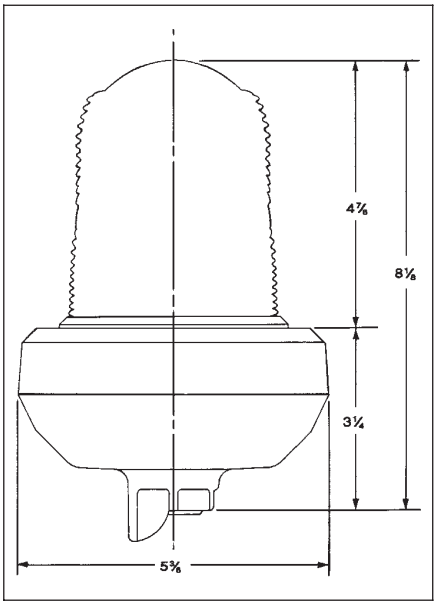
Ordering Information

Globe Color	Pendant Hub Size	Cat. # 120 VAC	Cat. # 240 VAC	Cat. # 12 VDC	Cat. # 24 VDC
Red	¾″	VDAS/R	VDAS/R/240	VDAS/R/012	VDAS/R/024
Blue	¾″	VDAS/B	VDAS/B/240	VDAS/B/012	VDAS/B/024
Amber	¾″	VDAS/A	VDAS/A/240	VDAS/A/012	VDAS/A/024
Green	¾″	VDAS/G	VDAS/G/240	VDAS/G/012	VDAS/G/024
Clear	¾″	VDAS/C	VDAS/C/240	VDAS/C/012	VDAS/C/024

Temperature Performance Data:

Ambient °C	Class I Div 2	Class II Div 2, Class III
40°	T3B	T3B
55°	T3A	---
65°	T3	---

Dimensions



COOPER Crouse-Hinds