

# EXIT & EMERGENCY

## LIGHTING





Orbit Industries offers quality exit & emergency lighting products that are reliable, efficient and easy to install. Our premium line of products include exit signs, emergency lighting units, remote fixture heads, and accessories to suit practically any application. Designed to comply with the latest codes and performance standards, Orbit's exit & emergency lighting will lead you towards safety.

With a 98.7% fill rate, Orbit is confident your products to be in stock and ready to ship.



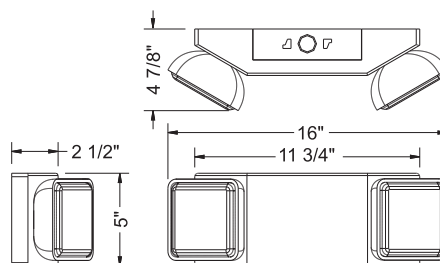
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## EL2N // ADJUSTABLE SQUARE HEAD EMERGENCY LIGHT



Product Shown EL2N-W

- Dual-Voltage Input 120/277VAC Operation
- UL Listed for Damp Location
- Two fully adjustable, glare-free 6V 5.4W T5 Wedge Base Lamps
- 90 Minutes Minimum Emergency Operation
- Injection Molded, 5VA Flame Retardant, High Impact, Thermoplastic
- Universal Mounting Pattern with Quick-Connect
- Conduit Mount Knockout on top of housing (**HO Only**)
- Suitable for wall and ceiling mounting
- Push-to-Test Switch
- Maintenance-free 6V, 4.5AH (HO: 7AH) Sealed Lead-Acid Battery
- Fully automatic operation
- Remote Capable for up to 2 additional Lamp Heads (**HO Only**)



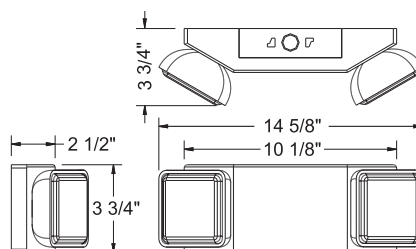
Cat. No.	Housing Color	Options
EL2N	W (White) B (Black)	HO (High Output) SDT (Self Diagnostic Test)

## EL2NM-LED // MICRO ADJUSTABLE SQUARE HEAD LED EMERGENCY LIGHT



Product Shown EL2NM-LED-W

- Dual-Voltage Input 120/277VAC Operation
- UL Listed for Damp Location
- Long-lasting, Energy Saving ultra-bright LED Lamps
- 90 Minutes Minimum Emergency Operation
- Injection Molded, 5VA Flame Retardant, High Impact, Thermoplastic
- Fully adjustable, glare-free Lamp Heads
- Universal Mounting Pattern with Quick-Connect
- Conduit Mount Knockout on top of housing
- Suitable for wall and ceiling mounting
- High Performance Chrome Plated Reflector
- Push-to-Test Switch
- Maintenance-free 3.6V NiCd Battery
- Fully automatic operation
- Remote Capable for up to 2 additional Lamp Heads (**HO Only**)



Cat. No.	Housing Color	Options
EL2NM-LED	W (White) B (Black)	HO (High Output) SDT (Self Diagnostic Test)

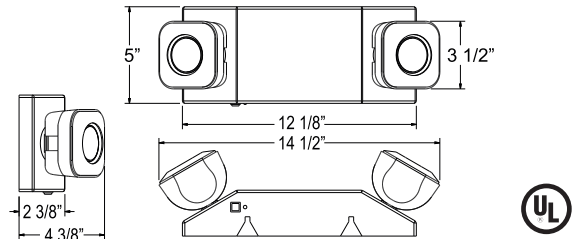
## EL2H // ADJUSTABLE MR16 HEAD EMERGENCY LIGHT



Product Shown EL2H-W

- Dual-Voltage Input 120/277VAC Operation
- UL Listed for Damp Location
- Two fully adjustable, glare-free 6V 5W MR16 Halogen Lamps
- 90 Minutes Minimum Emergency Operation
- Injection Molded, 5VA Flame Retardant, High Impact, Thermoplastic
- Universal Mounting Pattern with Quick-Connect
- Conduit Mount Knockout on top of housing (**HO Only**)
- Suitable for wall and ceiling mounting
- Push-to-Test Switch
- Maintenance-free 6V, 4.5AH (HO: 7AH) Sealed Lead-Acid Battery
- Fully automatic operation
- Remote Capable for up to 2 additional Lamp Heads (10.8W Max) (**HO Only**)

Cat. No.	Housing Color	Options
<b>EL2H</b>	<b>W</b> (White) <b>B</b> (Black)	<b>HO</b> (High Output) <b>SDT</b> (Self Diagnostic Test)



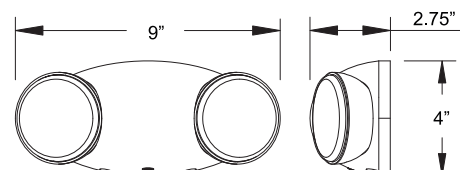
## EL2HM-LED // MICRO ADJUSTABLE ROUND HEAD LED EMERGENCY LIGHT



Product Shown EL2HM-LED-W

- Dual-Voltage Input 120/277VAC Operation
- UL Listed for Damp Location
- Long-lasting, Energy Saving ultra-bright LED Lamps
- 90 Minutes Minimum Emergency Operation
- Injection Molded, 5VA Flame Retardant, High Impact, Thermoplastic
- Fully adjustable, glare-free Lamp Heads
- Universal Mounting Pattern with 1/2" Knockout
- Suitable for wall and ceiling mounting
- High Performance Chrome Plated Reflector
- Push-to-Test Switch
- Maintenance-free 3.6V NiCd Battery
- Fully automatic operation

Cat. No.	Housing Color
<b>EL2HM-LED</b>	<b>W</b> (White) <b>B</b> (Black)

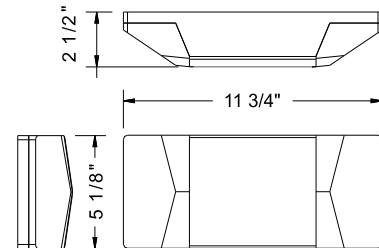


## EL2F // FIXED HEAD EMERGENCY LIGHT



Product Shown EL2F-W

- Dual-Voltage Input 120/277VAC Operation
- UL Listed for Damp Location
- Two glare-free 6V 5.4W T5 Wedge Base Lamps
- 90 Minutes Minimum Emergency Operation
- Injection Molded, 5VA Flame Retardant, High Impact, Thermoplastic
- Universal Mounting Pattern with Quick Connect
- Suitable for wall and ceiling mounting
- Fixed Optics Prismatic Lenses
- Stylish Flush Heads
- Push-to-Test Switch
- Maintenance-free 6V, 4.5AH Sealed Lead-Acid Battery
- Fully automatic operation



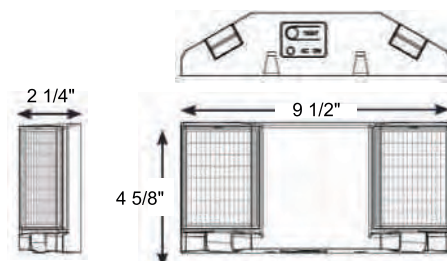
Cat. No.	Housing Color
<b>EL2F</b>	<b>W</b> (White) <b>B</b> (Black)

## EL2FM-LED // MICRO ADJUSTABLE LED EMERGENCY LIGHT



Product Shown EL2FM-LED-W

- Dual-Voltage Input 120/277VAC Operation
- UL Listed for Damp Location
- Long-lasting, Energy Saving ultra-bright LED Lamps
- 90 Minutes Minimum Emergency Operation
- Injection Molded, 5VA Flame Retardant, High Impact, Thermoplastic
- Fully adjustable, glare-free Lamp Heads
- Universal Mounting Pattern with Quick Connect
- Conduit Mount Knockout on top of housing
- Suitable for wall and ceiling mounting
- Push-to-Test Switch
- Maintenance-free 3.6V NiCd Battery
- Fully automatic operation

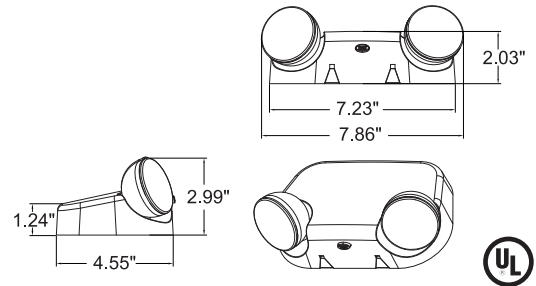


Cat. No.	Housing Color
<b>EL2FM-LED</b>	<b>W</b> (White) <b>B</b> (Black)

## EL2SML // SUPER MICRO ADJUSTABLE HEAD LED EMERGENCY LIGHT



- Dual-Voltage Input 120/277VAC Operation
- UL Listed for Damp Location
- Long-lasting, Energy Saving ultra-bright LED Lamps (0.5W per lamp head)
- 90 Minutes Minimum Emergency Operation
- Injection Molded, 5VA Flame Retardant, High Impact, Thermoplastic
- Fully adjustable, glare-free Lamp Heads
- Universal Mounting Pattern with Quick-Connect
- Suitable for wall and ceiling mounting
- Push-to-Test Switch
- LED indicator light alerts occupant of battery level
- Maintenance-free 3.6V NiCd Battery
- Fully automatic operation

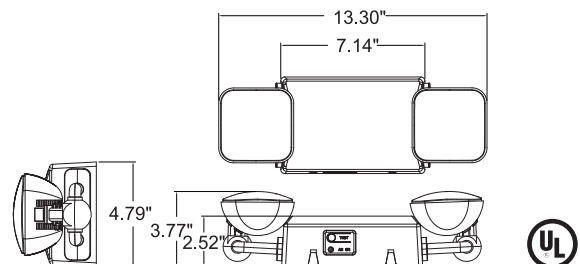


Cat. No.	Housing Color	Options
EL2SML	W (White) B (Black)	RC (Remote Capacity)

## EL2JL // FULLY ADJUSTABLE BALL JOINT LED EMERGENCY LIGHT



- Dual-Voltage Input 120/277VAC Operation
- UL Listed for Damp Location
- Long-lasting, Energy Saving ultra-bright LED Lamps (1.7W per lamp head)
- 90 Minutes Minimum Emergency Operation
- Injection Molded, 5VA Flame Retardant, High Impact, Thermoplastic
- Ball Joints allow for fully adjustable, glare-free Lamp Heads
- Universal Mounting Pattern with Quick-Connect
- Conduit Mount Knockout on top of housing
- Suitable for wall and ceiling mounting
- High Performance Chrome Plated Reflector
- Push-to-Test Switch
- Maintenance-free 3.6V NiCd Battery
- Fully automatic operation



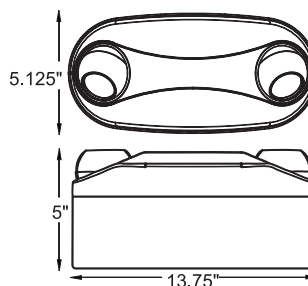
\*Special voltage options available, contact Orbit Industries for details

Cat. No.	Housing Color
EL2JL	W (White) B (Black)

## EL2RC // REMOTE CAPABLE ADJUSTABLE MR16 HEAD EMERGENCY LIGHT



- Dual-Voltage Input 120/277VAC Operation
- UL Listed for Damp Location
- Two fully adjustable, glare-free 6V 12W MR16 Halogen Lamps
- 90 Minutes Minimum Emergency Operation
- Injection Molded, 5VA Flame Retardant, High Impact, Thermoplastic
- Universal Mounting Pattern with Quick-Connect
- Conduit Mount Knockout on top of housing
- Compatible with drop ceiling mounting installations
- Suitable for wall and ceiling mounting
- Push-to-Test Switch
- Maintenance-free 6V Sealed Lead-Acid Battery/Batteries
- Fully automatic operation
- Higher capacity battery offers 26W of Remote Capacity

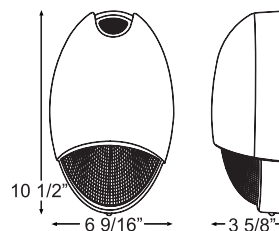


Cat. No.	Housing Color	Options
<b>EL2RC6</b> (6 Volt) <b>EL2RC12</b> (12 Volt)	<b>W</b> (White) <b>B</b> (Black)	<b>L</b> (3.3W LED MR16 Cool White Bulb)

## EL1DOL // DECORATIVE WET LOCATION LED EMERGENCY LIGHT



- Universal Voltage 120~277VAC Operation
- UL Listed for Wet Location
- 2 Long-lasting, 3W Energy Saving ultra-bright LED Lamps
- 90 Minutes Minimum Emergency Operation
- Die Cast Aluminum Housing with Powder Coated Finish
- Universal Mounting Plate
- Threaded opening at top of enclosure for Conduit Mounting
- Suitable for wall and ceiling mounting
- Can be used as a Normal Light or an Emergency Light
- Self Diagnostic Testing Standard
- Push-to-Test Switch
- Maintenance-free 4.8V Rechargeable NiCd Battery
- Fully automatic operation



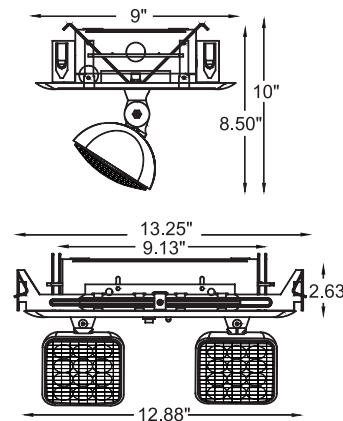
Cat. No.	Housing Color	Options
<b>EL1DOL</b>	<b>W</b> (White) <b>BR</b> (Bronze) <b>B</b> (Black) <b>N</b> (Nickel)	<b>HTR</b> (Heater) <b>PC</b> (Photocell)



## EL2LR // RECESSED LED EMERGENCY LIGHT



- Dual-Voltage Input 120/277VAC Operation
- Two fully adjustable 1W LED Lamp Heads
- 90 Minutes Minimum Emergency Operation
- Durable 20 Gauge Steel Trim Plate
- Adjustable Bar Hanger up to 24" for Recessed Mounting
- Push-to-Test Switch
- High capacity battery offers 10W of Remote Capacity
- Maintenance-free 6V, Rechargeable Sealed Lead-Acid Battery
- Fully automatic operation

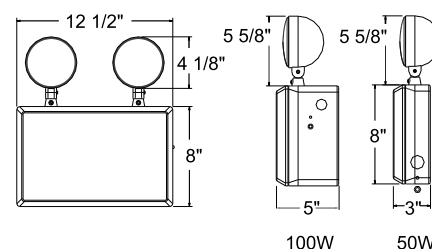


Cat. No.	Housing Color
EL2LR	W (White) B (Black)

## EL2T6/EL2T12 // HIGH OUTPUT EMERGENCY LIGHT



- Dual-Voltage Input 120/277VAC Operation
- 90 Minutes Minimum Emergency Operation
- Injection Molded, 5VA Flame Retardant, High Impact, Thermoplastic Knockout on back of housing for wall mount
- Push-to-Test Switch
- Maintenance-free 6V Sealed Lead-Acid Battery
- Fully automatic operation



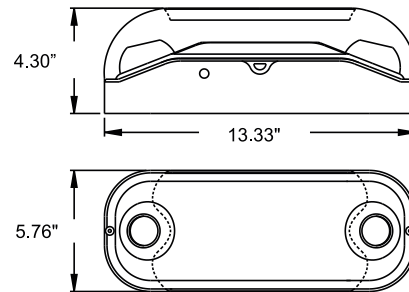
Cat. No.	Voltage	Output	Lamp Wattage
EL2T650	6V	50W	2 x 7.2W
EL2T6100	6V	100W	2 x 7.2W
EL2T1250	12V	50W	2 x 7.2W
EL2T12100	12V	100W	2 x 7.2W

## EL2H-WP // ADJUSTABLE WET LOCATION EMERGENCY LIGHT



Product Shown EL2H-WP-GY

- Dual-Voltage Input 120/277VAC Operation
- UL Listed for Wet Location
- Two fully adjustable, glare-free 6V, 7W MR16 Halogen Lamps
- 90 Minutes Minimum Emergency Operation
- Injection Molded, 5VA Flame Retardant, High Impact, Thermoplastic
- Universal Mounting Plate
- Suitable for wall and ceiling mounting
- Push-to-Test Switch
- Maintenance-free 6V, 4.5AH Sealed Lead-Acid Battery
- Fully automatic operation



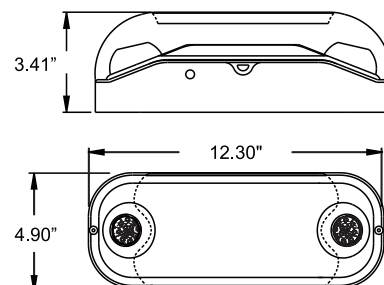
Cat. No.	Housing Color
EL2H-WP	GY (Grey) B (Black)

## EL2H-WP-LED // ADJUSTABLE WET LOCATION LED EMERGENCY LIGHT



Product Shown EL2H-WP-LED-GY

- Dual-Voltage Input 120/277VAC Operation
- UL Listed for Wet Location
- Long-lasting, Energy Saving ultra-bright LED Lamps
- 90 Minutes Minimum Emergency Operation
- Injection Molded, 5VA Flame Retardant, High Impact, Thermoplastic
- Fully adjustable, glare-free Heads
- Universal Mounting Pattern with 1/2" Knockout in back
- Suitable for wall and ceiling mounting
- Push-to-Test Switch
- Maintenance-free 3.6V NiCd Battery
- Fully automatic operation



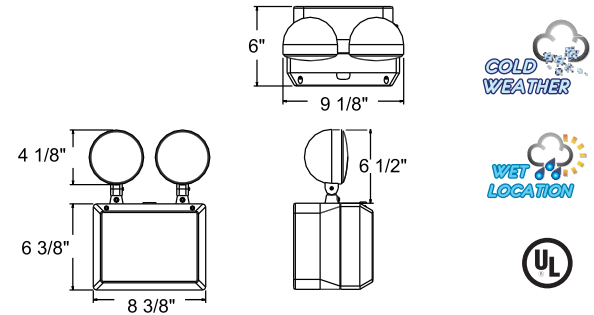
Cat. No.	Housing Color
EL2H-WP-LED	GY (Grey) B (Black)

## EL2TN4 // REMOTE HEAD WET LOCATION EMERGENCY LIGHT



- Dual-Voltage Input 120/277VAC Operation
- UL Listed for Wet Location
- Suitable for cold weather **with heater option**
- Two fully adjustable 6V 7.2W T5 Wedge Base Waterproof Lamp Heads
- 90 Minutes Minimum Emergency Operation
- Injection Molded, 5VA Flame Retardant, High Impact, Thermoplastic
- Fully Gasketed Corrosion-Resistant Enclosure
- Surface wall mount only
- Sealed Push-to-Test Switch
- White housing only
- Maintenance-free 6V, 10AH Sealed Lead-Acid Battery
- Fully automatic operation

Cat. No.	Options
EL2TN4	HTR (Internal Heater)

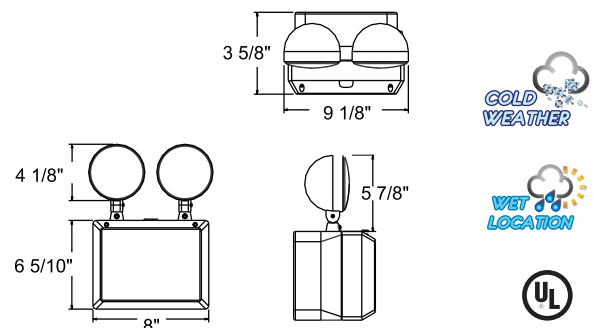


## EL2TN4-LED // REMOTE HEAD WET LOCATION LED EMERGENCY LIGHT



- Dual-Voltage Input 120/277VAC Operation
- UL Listed for Wet Location
- Suitable for cold weather
- Two fully adjustable ultra-bright LED Lamp Heads
- 90 Minutes Minimum Emergency Operation
- Injection Molded, 5VA Flame Retardant, High Impact, Thermoplastic
- Fully Gasketed Corrosion-Resistant Enclosure
- Surface wall mount only, brackets included
- Sealed Push-to-Test Switch
- Maintenance-free 9.6V NiCd Battery
- Fully automatic operation

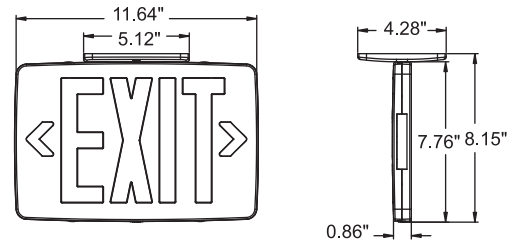
Cat. No.	Housing Color
EL2TN4-LED	GY (Grey) B (Black)



## EST // THIN THERMOPLASTIC LED EXIT SIGN



- Dual-Voltage Input 120/277VAC Operation
- UL Listed for Damp Location
- Long-lasting, Energy Saving LED Lamps
- 90 Minutes Minimum Emergency Operation
- Injection Molded, 5VA Flame Retardant, High Impact, Thermoplastic
- Universal Mounting Pattern
- Canopy for ceiling or end mounting included
- Available in either Single or Double-Face
- Easy Snap-out Chevrons Directional Indicators
- Push-to-Test Switch
- Maintenance-free 1.2V NiCd Battery
- Fully automatic operation

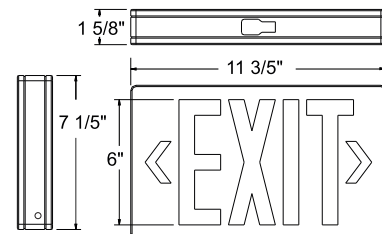


Cat. No.	Housing Color	Letter Color	No. of Faces	Operation
EST	W (White)	R (Red)	1	EB (Battery Back-Up) AC (AC Only)
	B (Black)	G (Green)	2	

## ESBLM // MICRO THERMOPLASTIC LED EXIT SIGN WITH BATTERY BACK-UP



- Dual-Voltage Input 120/277VAC Operation
- UL Listed for Damp Location
- Long-lasting, Energy Saving LED Lamps
- 90 Minutes Minimum Emergency Operation
- Injection Molded, 5VA Flame Retardant, High Impact, Thermoplastic
- Universal Mounting Pattern
- Canopy for ceiling or end mounting included
- Easy Snap-out Chevrons Directional Indicators
- Extra Faceplate included for field conversion to Double-Face
- Push-to-Test Switch
- Maintenance-free 2.4V NiCd Battery
- Fully automatic operation



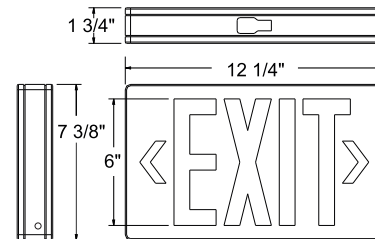
Cat. No.	Housing Color	Letter Color
ESBLM	W (White)	R (Red)
	B (Black)	G (Green)

## ESBL // THERMOPLASTIC LED EXIT SIGN WITH BATTERY BACK-UP



- Dual-Voltage Input 120/277VAC Operation
- UL Listed for Damp Location
- Long-lasting, Energy Saving LED Lamps
- 90 Minutes Minimum Emergency Operation
- Injection Molded, 5VA Flame Retardant, High Impact, Thermoplastic
- Universal Mounting Pattern
- Canopy for ceiling or end mounting included
- Easy Snap-out Chevrons Directional Indicators
- Extra Faceplate included for field conversion to Double-Face
- Push-to-Test Switch
- Maintenance-free 4.8V NiCd Battery
- Fully automatic operation

Cat. No.	Housing Color	Letter Color	Options
<b>ESBL</b>	<b>W</b> (White) <b>B</b> (Black)	<b>R</b> (Red) <b>G</b> (Green)	<b>SDT</b> (Self Diagnostic Test) <b>RC</b> (Remote Capable)



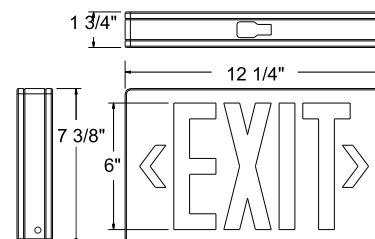
## ESL // THERMOPLASTIC AC ONLY LED EXIT SIGN

## ESL2C // THERMOPLASTIC DUAL CIRCUIT LED EXIT SIGN (AC/GENERATOR BACK-UP)



- Dual-Voltage Input 120/277VAC Operation
- UL Listed for Damp Location
- Long-lasting, Energy Saving LED Lamps
- Injection Molded, 5VA Flame Retardant, High Impact, Thermoplastic
- Universal Mounting Pattern
- Canopy for ceiling or end mounting included
- Easy Snap-out Chevrons Directional Indicators
- Extra Faceplate included for field conversion to Double-Face

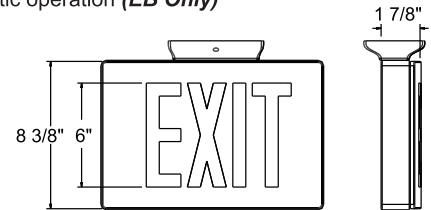
Cat. No.	Housing Color	Letter Color
<b>ESL</b> (AC Only) <b>ESL2C</b> (Dual Circuit)	<b>W</b> (White) <b>B</b> (Black)	<b>R</b> (Red) <b>G</b> (Green)



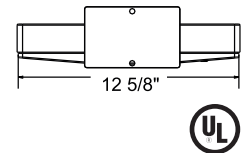
## ESLA // CAST ALUMINUM LED EXIT SIGN



- Dual-Voltage Input 120/277VAC Operation
- UL Listed for Damp Location
- Long-lasting, Energy Saving LED Lamps
- 90 Minutes Minimum Emergency Operation (**EB Only**)
- Premium Grade Aluminum Housing
- Universal Mounting Pattern
- Aluminum Canopy for ceiling or end mounting included
- Knockout Chevrons Directional Indicators
- Push-to-Test Switch
- Maintenance-free 4.8V NiCd Battery (**EB Only**)
- Fully automatic operation (**EB Only**)



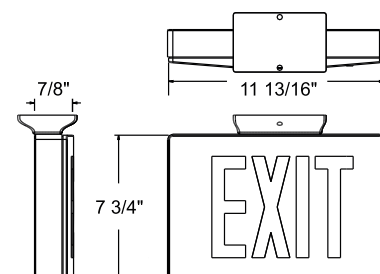
Cat. No.	Housing Color	Faceplate	No. of Faces	Letter Color	Operation	Options
ESLA	A (Aluminum)	A (Aluminum)	1	R (Red)	EB (Battery Back-Up)	SDT (Self Diagnostic Test) 2C (Dual-Circuit Operation) TP (Tamper-Proof)
	W (White) B (Black)	W (White) B (Black)	2	G (Green)	AC (AC Only)	



## ESLAM // MICRO CAST ALUMINUM LED EXIT SIGN



- Dual-Voltage Input 120/277VAC Operation
- UL Listed for Damp Location
- Long-lasting, Energy Saving LED Lamps
- 90 Minutes Minimum Emergency Operation (**EB Only**)
- Premium Grade Aluminum Housing
- Universal Mounting Pattern
- Aluminum Canopy for ceiling or end mounting included
- Knockout Chevrons Directional Indicators
- Single face only
- Push-to-Test Switch
- Maintenance-free 2.4V NiCd Battery (**EB Only**)
- Fully automatic operation (**EB Only**)



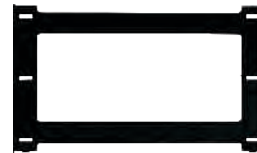
Cat. No.	Housing Color	Faceplate	Letter Color	Operation
ESLAM	A (Aluminum)	A (Aluminum)	R (Red)	EB (Battery Back-Up) AC (AC Only)
	W (White) B (Black)	W (White) B (Black)	G (Green)	



## ESI // SELF-ILLUMINATING LOW-LEVEL EXIT SIGN



- Non-Electrical, Non-Nuclear
- Non-Radioactive
- UL Listed
- Minimum 5 Foot-Candles (54 Lux) external unfiltered Fluorescent
- Rated viewing distance of 50 feet
- Aluminum Body
- Photoluminescent Surface
- Built-in wall mount
- Field Applied Chevrons Included
- Single face only

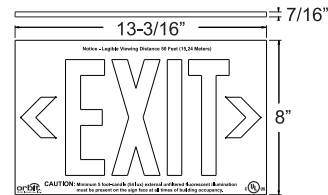


Mounting Bracket Included



Illuminated

Cat. No.	Letter Color
ESI	R (Red) G (Green)



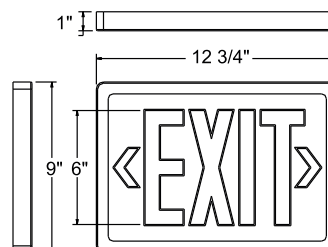
## ESN // SELF-ILLUMINATING TRITIUM (NUCLEAR) EXIT SIGN



- Tritium-Powered Self-Illuminating
- Non-Electrical, Nuclear
- UL Listed for Wet Location
- Non-Radioactive and Non-Explosive
- 10 Foot candles ambient lighting
- Rated viewing distance of 100 feet
- Surface Mount Bracket
- Letter-shaped light tubes for best lighting
- Field applied chevrons included



Cat. No.	Housing Color	Faceplate	No. of Faces	Life in Years
ESN	W (White) B (Black) C (Chrome)	R (Red) G (Green)	1 2	10 20

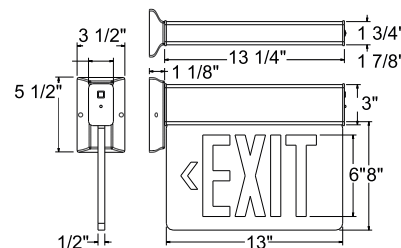


## ESSE // SURFACE MOUNT EDGE-LIT LED EXIT SIGN



Product Shown ESSE-A-2-R

- Dual-Voltage Input 120/277VAC Operation
- UL Listed for Damp Location
- Long-lasting, Energy Saving LED Lamps
- 90 Minutes Minimum Emergency Operation (**EB Only**)
- Premium Grade Extruded Aluminum Housing
- Aluminum Canopy for wall, ceiling, or end mounting included
- Field applied Chevrons Included
- UV Stabilized ultra clear acrylic Edge Lit Panel
- Single-Face Panels are **Clear**, Double-Face Panels are **Opaque**
- Push-to-Test Switch
- Long life, Maintenance-free 4.8V NiCd Battery (**EB Only**)
- Fully automatic operation (**EB Only**)



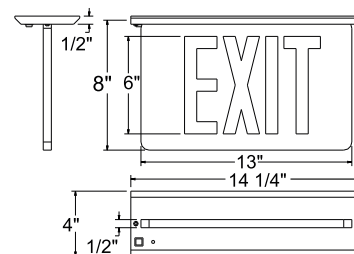
Cat. No.	Casing Color	No. of Faces	Letter Color	Operation	Options
<b>ESSE</b>	A (Aluminum) W (White) B (Black)	1 2	R (Red) G (Green)	EB (Battery Back-Up) AC (AC Only)	SDT (Self Diagnostic Test) 2C (Dual-Circuit Operation)

## ESRE // RECESSED MOUNT EDGE-LIT LED EXIT SIGN



Product Shown ESRE-A-2-G

- Dual-Voltage Input 120/277VAC Operation
- UL Listed for Damp Location
- Long-lasting, Energy Saving LED Lamps
- 90 Minutes Minimum Emergency Operation (**EB Only**)
- Premium Grade Extruded Aluminum Housing
- Adjustable Bar Hanger up to 24" for Recessed Mount
- Field applied Chevrons Included
- UV Stabilized ultra clear acrylic Edge Lit Panel
- Single-Face Panels are **Clear**, Double-Face Panels are **Opaque**
- Push-to-Test Switch
- Maintenance-free 4.8V NiCd Battery (**EB Only**)
- Fully automatic operation (**EB Only**)



Cat. No.	Casing Color	No. of Faces	Letter Color	Operation	Options
<b>ESRE</b>	A (Aluminum) W (White) B (Black)	1 2	R (Red) G (Green)	EB (Battery-Back Up) AC (AC Only)	SDT (Self Diagnostic Test) 2C (Dual-Circuit Operation)

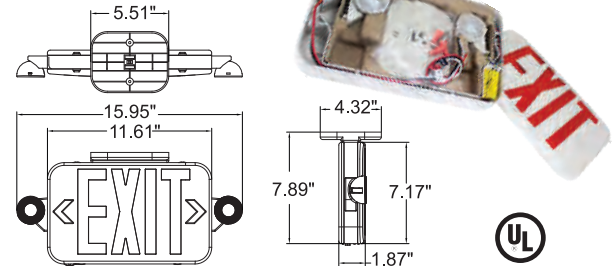


## EECMPL // MICRO LED EMERGENCY LIGHT/EXIT SIGN COMBO UNIT WITH BATTERY BACK-UP



- Dual-Voltage Input 120/277VAC Operation
- UL Listed for Damp Location
- Long-lasting, Energy Saving LED Lamps
- 90 Minutes Minimum Emergency Operation
- Injection-Molded, 5VA Flame Retardant, High Impact, Thermoplastic
- Round Fully adjustable LED Lamp Heads packaged inside Exit Sign Housing for petite packaging
- Universal Mounting Pattern
- Canopy for ceiling mounting included
- Easy Snap-out Chevrons Directional Indicators
- Extra Faceplate included for field conversion to Double-Face
- LED indicator light alerts occupant of battery level
- Push-to-Test Switch
- Maintenance-free 3.6V, NiCd Battery
- Fully automatic operation

Emergency Lights ship inside Exit Sign for Space Saving Packaging

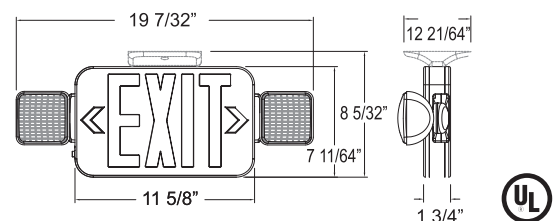


Cat. No.	Housing Color	Letter Color	Options
EECMPL	W (White) B (Black)	R (Red) G (Green)	RC (Remote Capacity)

## EECLMS // MICRO LED EMERGENCY LIGHT/EXIT SIGN COMBO UNIT WITH BATTERY BACK-UP



- Dual-Voltage Input 120/277VAC Operation
- UL Listed for Damp Location
- Long-lasting, Energy Saving LED Lamps
- 90 Minutes Minimum Emergency Operation
- Injection-Molded, 5VA Flame Retardant, High Impact, Thermoplastic
- Fully adjustable Square LED Lamp Heads
- Universal Mounting Pattern
- Canopy for ceiling mounting included
- Easy Snap-out Chevrons Directional Indicators
- Extra Faceplate included for field conversion to Double-Face
- Push-to-Test Switch
- Maintenance-free 3.6V, NiCd Battery
- Fully automatic operation



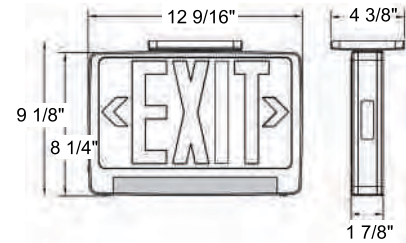
Cat. No.	Housing Color	Letter Color
EECLMS	W (White) B (Black)	R (Red) G (Green)

## EECLP-LED // LED TUBE EMERGENCY LIGHT/ EXIT SIGN COMBO UNIT WITH BATTERY BACK-UP



Product Shown EECLP-LED-W-1-R

- Dual-Voltage Input 120/277VAC Operation
- UL Listed for Damp Location
- Long-lasting, Energy Saving LED Lamps
- Adjustable LED Emergency Light beneath Exit Sign
- 90 Minutes Minimum Emergency Operation
- Injection Molded, 5VA Flame Retardant, High Impact, Thermoplastic
- Universal Mounting Pattern
- Canopy for ceiling or end mounting included
- Easy Snap-out Chevrons Directional Indicators
- Push-to-Test Switch
- Two Maintenance-free 4.8V NiCd Batteries
- Fully automatic operation
- Remote Capable for up to 2 additional Lamp Heads



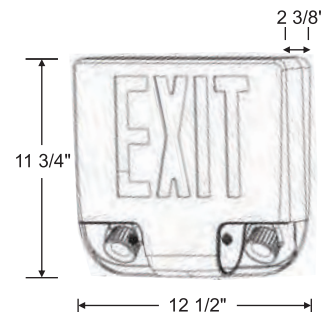
Cat. No.	Housing Color	No. of Faces	Letter Color	Options
<b>EECLP-LED</b>	<b>W</b> (White) <b>B</b> (Black)	<b>1</b> <b>2</b>	<b>R</b> (Red) <b>G</b> (Green)	<b>SDT</b> (Self Diagnostic Test)

## EESLA-LED // CAST ALUMINUM LED EMERGENCY LIGHT/ EXIT SIGN COMBO UNIT WITH BATTERY BACK-UP



Product Shown EESLA-LED-A-A-1-G

- Dual-Voltage Input 120/277VAC Operation
- UL Listed for Damp Location
- Long-lasting, Energy Saving LED Lamps
- Two high powered, fully adjustable LED Lamp Heads
- 90 Minutes Minimum Emergency Operation
- Heavy-Duty Premium Grade Aluminum Housing
- Universal Mounting Pattern
- Aluminum Canopy for ceiling or end mounting included
- Knockout Chevrons Directional Indicators
- Push-to-Test Switch
- Maintenance-free 8.4V NiCd Battery
- Fully automatic operation



Cat. No.	Housing Color	Faceplate	No. of Faces	Letter Color
<b>EESLA-LED</b>	<b>A</b> (Aluminum) <b>W</b> (White) <b>B</b> (Black)	<b>A</b> (Aluminum) <b>W</b> (White) <b>B</b> (Black)	<b>1</b> <b>2</b>	<b>R</b> (Red) <b>G</b> (Green)

# EXIT & EMERGENCY COMBINATION UNITS

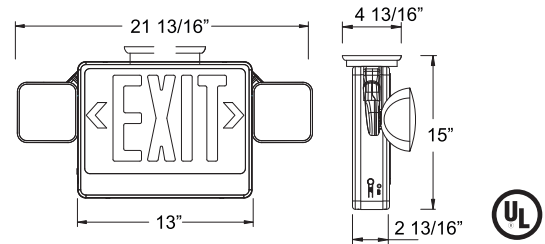
## EECLA // EMERGENCY LIGHT/LED EXIT SIGN COMBO UNIT WITH BATTERY BACK-UP



Product Shown EECLA-W-G

- Dual-Voltage Input 120/277VAC Operation
- UL Listed for Damp Location
- Two 6V 5.4W T5 Wedge Base Lamp Heads with **fully adjustable lamp arms**
- Long-lasting, Energy Saving LED Lamps
- 90 Minutes Minimum Emergency Operation
- Injection-Molded, 5VA Flame Retardant, High Impact, Thermoplastic
- Universal Mounting Pattern
- Canopy for end mounting included
- Easy Snap-out Chevrons Directional Indicators
- Extra Faceplate included for field conversion to Double-Face
- Push-to-Test Switch
- Maintenance-free 6V, 4.5AH Sealed Lead-Acid Battery
- Fully automatic operation

Cat. No.	Housing Color	Letter Color	Options
EECLA	W (White) B (Black)	R (Red) G (Green)	SDT (Self Diagnostic Test) RC (Remote Capable)



## WET LOCATION EXIT SIGNS

### ESLN4M // MICRO WET LOCATION LED EXIT SIGN

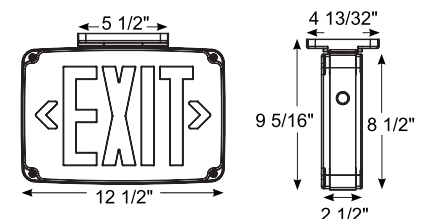


Product Shown ESLN4M-W-1-G

- Dual-Voltage Input 120/277VAC Operation
- UL Listed for Wet Location
- Cold Weather Rated
- Long-lasting, Energy Saving LED Lamps
- 90 Minutes Minimum Emergency Operation (**EB Only**)
- Injection Molded, 5VA Flame Retardant, High Impact, Thermoplastic
- Fully Gasketed Corrosion-Resistant Enclosure
- High-Impact Clear Polycarbonate Lens
- Universal Mounting Plate
- Canopy for ceiling or end mounting included
- Easy Snap-out Chevrons Directional Indicators
- Sealed Push-to-Test Switch
- Maintenance-free 6V NiCd Battery (**EB Only**)
- Fully automatic operation (**EB Only**)



Cat. No.	Housing Color	No. of Faces	Letter Color	Operation	Options
ESLN4M	W (White) B (Black) GY (Grey)	1 2	R (Red) G (Green)	EB (Battery Back-Up) AC (AC Only)	SDT (Self Diagnostic Test) 2C (Dual-Circuit Operation) TP (Tamper-Proof)



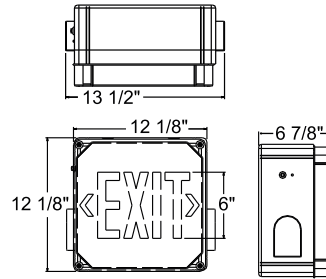
## ESLN4 // WET LOCATION LED EXIT SIGN



Product Shown ESLN4-R

Cat. No.	Letter Color	Operation
ESLN4	R (Red) G (Green)	EB (Battery Back-Up) AC (AC Only)

- Dual-Voltage Input 120/277VAC Operation
- UL Listed for Wet Location
- Long-lasting, Energy Saving LED Lamps
- 90 Minutes Minimum Emergency Operation (**EB Only**)
- Injection Molded, 5VA Flame Retardant, High Impact, Thermoplastic
- Fully Gasketed Corrosion-Resistant Enclosure
- High-Impact Clear Polycarbonate Lens
- Single-Face wall surface mount only
- Easy Snap-out Chevrons Directional Indicators
- Sealed Push-to-Test Switch
- Grey housing, White faceplate
- Maintenance-free 6V NiCd Battery (**EB Only**)
- Fully automatic operation (**EB Only**)



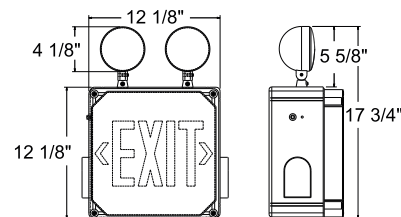
## ESBL2N4 // WET LOCATION EMERGENCY LIGHT/EXIT SIGN COMBO UNIT WITH BATTERY BACK-UP



Product Shown ESBL2N4-G

Cat. No.	Letter Color	Options
ESBL2N4	R (Red) G (Green)	HTR (Internal Heater)

- Dual-Voltage Input 120/277VAC Operation
- ETL Listed for Wet Location
- Suitable for cold weather **with heater option**
- Long-lasting, Energy Saving LED Lamps
- Two fully adjustable 6V 5.4W T5 Wedge Base Waterproof Lamp Heads
- 90 Minutes Minimum Emergency Operation
- Injection Molded, 5VA Flame Retardant, Polycarbonate
- Fully Gasketed Corrosion-Resistant Enclosure
- High-Impact Clear Polycarbonate Lens
- Universal Mounting Plate
- Single-Face wall surface mount only
- Easy Snap-out Chevrons Directional Indicators
- Sealed Push-to-Test Switch
- Grey housing, White faceplate
- Maintenance-free 4.8V NiCd Battery
- Fully automatic operation



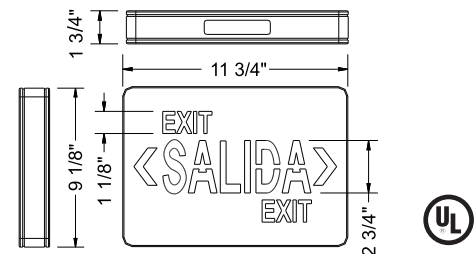
## SSBL // THERMOPLASTIC LED SALIDA SIGN WITH BATTERY BACK-UP



Product Shown SSBL-R

- Dual-Voltage Input 120/277VAC Operation
- UL Listed for Damp Location
- Long-lasting, Energy Saving LED Lamps
- 90 Minutes Minimum Emergency Operation
- Injection Molded, 5VA Flame Retardant, High Impact, Thermoplastic
- Universal Mounting Pattern
- Canopy for ceiling or end mounting included
- Easy Snap-out Chevrons Directional Indicators
- Extra Faceplate Included for Field Conversion to Double-Face
- SALIDA letters with EXIT letters
- Push-to-Test Switch
- White housing only
- Maintenance-free 4.8V NiCd Battery
- Fully automatic operation

Cat. No.	Letter Color
SSBL	R (Red) G (Green)



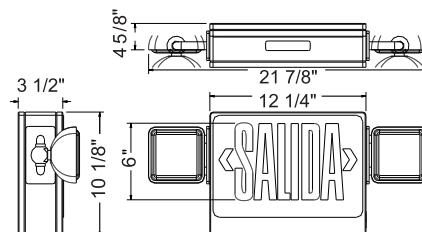
## SECL // THERMOPLASTIC LED SALIDA SIGN/EMERGENCY LIGHT COMBINATION UNIT WITH BATTERY BACK-UP



Product Shown SECL-G

- Dual-Voltage Input 120/277VAC Operation
- UL Listed for Damp Location
- Long-lasting, Energy Saving LED Lamps
- Two fully adjustable 6V 5.4W T5 Wedge Base Lamp Heads
- 90 Minutes Minimum Emergency Operation
- Injection Molded, 5VA Flame Retardant, High Impact, Thermoplastic
- Universal Mounting Pattern
- Canopy for wall or ceiling mounting included
- Easy Snap-out Chevrons Directional Indicators
- Extra Faceplate Included for Field Conversion to Double-Face
- Push-to-Test Switch
- White housing only
- Maintenance-free 6V, 4.5AH Sealed Lead-Acid Battery
- Fully automatic operation

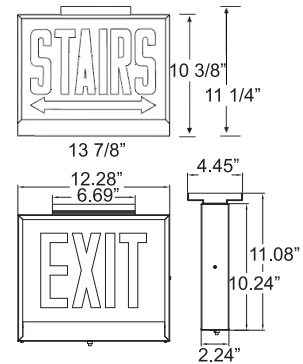
Cat. No.	Letter Color	Options
SECL	R (Red) G (Green)	SDT (Self Diagnostic Test) RC (Remote Capable)



## CESL // CHICAGO APPROVED LED EXIT SIGN



- Dual-Voltage Input 120/277VAC Operation
- UL Listed for Damp Location
- Long-lasting, Energy Saving LED Lamps
- Minimum 120 Minutes Emergency Operation
- Durable 20-Gauge Steel Housing
- Universal Mounting Pattern
- Canopy for ceiling or end mounting included
- Available in Single- or Double-Face
- White Finish Only
- Power "ON" LED indicator Light and LED Push-to-Test Switch
- Maintenance-free 4.8V NiCd Battery (**EB Only**)
- Fully automatic operation (**EB Only**)



Cat. No.	Housing Color	No. Faces	Operation	Legend	Arrow Config.
CESL	W (White)	1	EB (Battery Back-Up) AC (AC Only)	E (Exit) S (Stairs)	N (No Arrows) D (Double Arrows) LR (Left/Right Arrow)** L (Left Arrow)* R (Right Arrow)*
	B (Black)	2			



\*For Single face units only

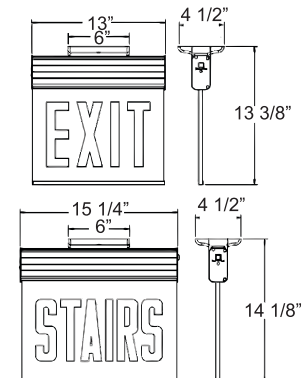
\*\*For double-face units, that need to point in the same direction (left/right) from both sides

VISIT [WWW.ORBIELECTRIC.COM](http://WWW.ORBIELECTRIC.COM)  
FOR DETAILED ARROW CONFIGURATION LAYOUTS

## CESSE // CHICAGO APPROVED EDGE-LIT SURFACE MOUNT LED EXIT SIGN



- Dual-Voltage Input 120/277VAC Operation
- UL Listed for Damp Location
- Long-lasting, Energy Saving LED Lamps
- Minimum 120 Minutes Emergency Operation
- Premium Grade Extruded Aluminum Housing
- Aluminum Canopy for wall, ceiling or end mounting included
- UV stabilized ultra clear acrylic edge lit panel
- Single-Face Panels are **Clear**, Double-Face Panels are **Opaque**
- Power "ON" LED indicator Light and LED Push-to-Test Switch
- Maintenance-free 4.8V NiCd Battery (**EB Only**)
- Fully automatic operation (**EB Only**)



Cat. No.	Casing Color	No. of Faces	Operation	Legend	Arrow Config.
CESSE	A (Aluminum)	1	EB (Battery Back-Up) AC (AC Only)	E (Exit) S (Stairs)	N (No Arrows) D (Double Arrows) LR (Left/Right Arrow)** L (Left Arrow)* R (Right Arrow)*
	W (White)	2			



\*For Single face units only

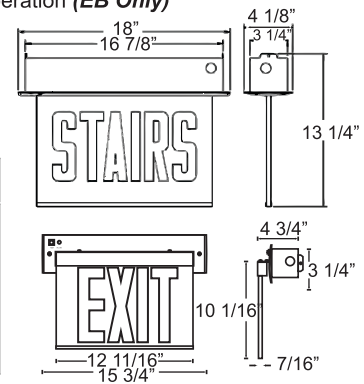
\*\*For double-face units, that need to point in the same direction (left/right) from both sides

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FOR DETAILED ARROW CONFIGURATION LAYOUTS

## CESRE // CHICAGO APPROVED EDGE-LIT RECESSED MOUNT LED EXIT SIGN



- Dual-Voltage Input 120/277VAC Operation
- UL Listed for Damp Location
- Long-lasting, Energy Saving LED Lamps
- Minimum 120 Minutes Emergency Operation
- Premium Grade Extruded Aluminum Housing
- Trim easily detaches for accessible service and maintenance
- Compatible with drywall or drop-through ceiling mount installations
- Wall Mount **Optional**
- UV stabilized ultra clear acrylic edge lit panel
- Single-Face Panels are **Clear**, Double-Face Panels are **Opaque**
- Power "ON" LED indicator Light and LED Push-to-Test Switch
- Maintenance-free 4.8V NiCd Battery (**EB Only**)
- Fully automatic operation (**EB Only**)



Cat. No.	Casing Color	No. of Faces	Operation	Legend	Arrow Config.	Options
CESRE	A (Aluminum) W (White)	1 2	EB (Battery Back-Up) AC (AC Only)	E (Exit) S (Stairs)	N (No Arrows) D (Double Arrows) LR (Left/Right Arrow)** L (Left Arrow)* R (Right Arrow)*	W (Wall Mount)

\*For Single face units only

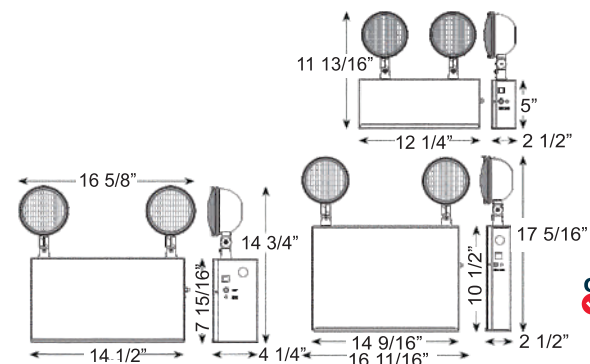
\*\*For double-face units, that need to point in the same direction (left/right) from both sides

VISIT [WWW.ORBIELECTRIC.COM](http://WWW.ORBIELECTRIC.COM) FOR DETAILED ARROW CONFIGURATION LAYOUTS

## CEL2 // CHICAGO APPROVED STEEL EMERGENCY LIGHT



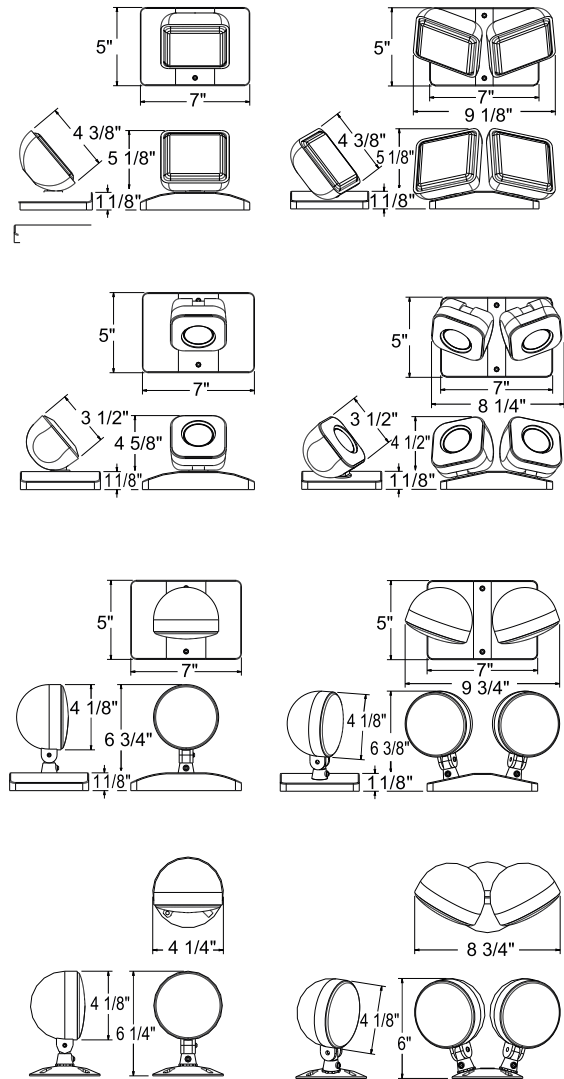
- Dual-Voltage Input 120/277VAC Operation
- UL Listed for Damp Location
- Two fully adjustable glare-free 6V 12W Bi-pin Halogen Lamp Heads
- Minimum 120 Minutes Emergency Operation
- Durable 20-gauge Steel Construction
- Universal Mounting Plate
- Knockouts on top and side for conduit feed applications
- Push-to-Test Switch
- Maintenance-free 6V Sealed Lead-Acid Rechargeable Battery
- Fully automatic operation
- Remote Capable on 50W and 100W models



Cat. No.	Housing Color	Voltage	Wattage
CEL2	W (White) B (Black)	627 (6V, 27W) 6V 12V	Blank (27W) 50 (50W) 100 (100W)

VISIT [WWW.ORBIELECTRIC.COM](http://WWW.ORBIELECTRIC.COM) FOR DETAILED ARROW CONFIGURATION LAYOUTS

## REMOTE HEAD LAMPS

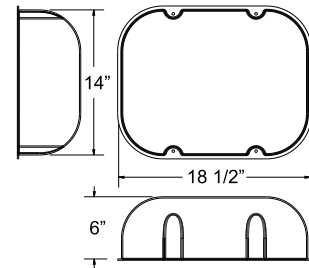
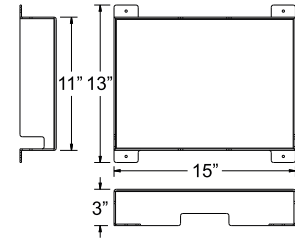


Cat. No.	No. of Heads	Voltage	Wattage
<b>RH16</b> (MR16 Remote Head)	1	6V	5W
	2		
<b>RHT5</b> (T5 Wedge Lamp Remote Head)	1	6V	5W 9W
	2		
	1	12V	7.2W 12W
	2		
<b>RH36</b> (PAR36 Remote Head)	1	6V	5W 9W
	2		
	1	12V	7.2W 12W
	2		
<b>RH36WP</b> (PAR36 Weatherproof Remote Head)	1	6V	7.2W
	2		



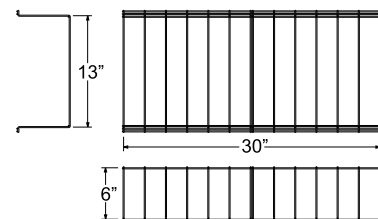
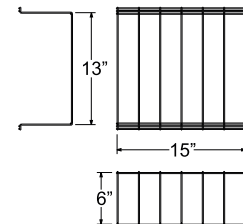
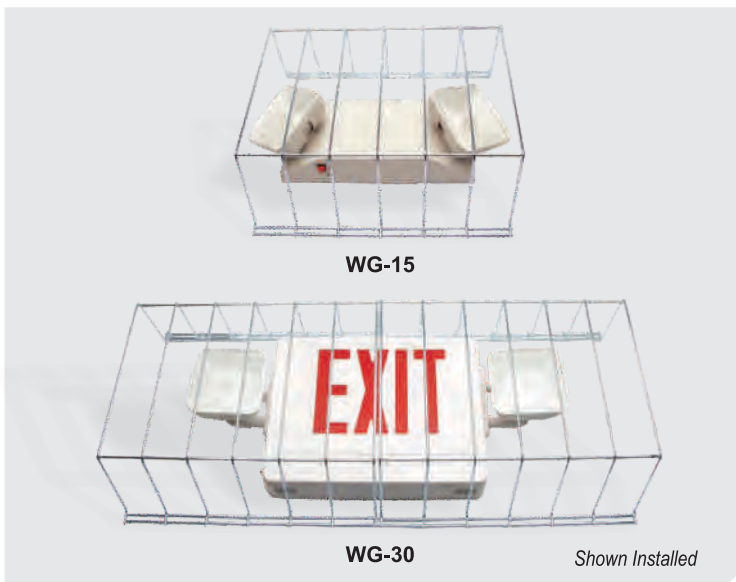


## PCS SERIES // ENVIRONMENTAL SHIELDS



Cat. No.	Description
<b>PCS-R</b>	Polycarbonate Vandal/Environmental Rectangular Shield
<b>PCS-D</b>	Polycarbonate Vandal/Environmental Dome Shield

## WG SERIES // WIRE GUARDS



Cat. No.	Description
<b>WG-15</b>	15" Wire Guard Covers most Emergency Units
<b>WG-30</b>	30" Wire Guard Covers most Exits & Combo Units

## REPLACEMENT BATTERIES & LAMPS



### BATTERIES

Cat No.	Description	For Use With
<b>EB-6</b>	6V, 4.5AH Sealed Lead-Acid Cadmium Replacement Battery	All Orbit Emergency Lights & Combination Units
<b>EB-48</b>	4.8V, 650-700mAH NiCd Replacement Battery	All Orbit Exit Signs Excluding Combination Units
<b>EB-36</b>	3.6V, 900mAH, NiCd Battery	EL2FM-LED, EL2HM-LED, EL2NM-LED
<b>EB-36HO</b>	3.6V, 1800mAH, NiCd Battery for High Output	EL2NM-LED-HO

### LAMPS

Cat No.	Description	For Use With
<b>EIB-5</b>	6V, 5W Wedge-Base Incandescent Lamp	All Orbit Wedge-Base Incandescent Units
<b>EHB-5</b>	6V, 5W MR16 Halogen Lamp	EL2H, ESBL2H

## LED RETROFIT KITS



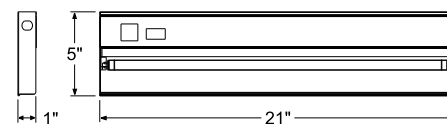
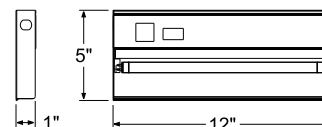
- 120VAC
- 2.8W per Kit (Set of Two LED Base)
- Socket Adapters (Bayonet, Intermediate or Candelabra) Included

Cat. No.	Description
<b>LRK-SI-R</b>	Screw-In Red LED Retrofit Kit
<b>LRK-SI-G</b>	Screw-In Green LED Retrofit Kit

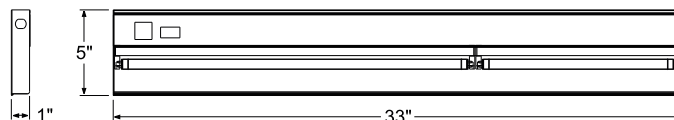
## UNDER CABINET LIGHTING

Cat No.	Description	Lamp (Included)
<b>UCL-12</b>	12" Under Cabinet Electronic Ballast	One 8W T5
<b>UCL-21</b>	21" Under Cabinet Electronic Ballast	One 13W T5
<b>UCL-24</b>	24" Under Cabinet Electronic Ballast	Two 8W T5
<b>UCL-33</b>	33" Under Cabinet Electronic Ballast	One 8W T5 & One 13W T5
<b>UCL-42</b>	42" Under Cabinet Electronic Ballast	Two 13W T5

- 120/125 VAC
- T5 Fluorescent Lamp
- Electronic Class P Ballast
- Switch Included
- Heavy Gauge Steel with Flush Ends
- K.O.s on Top, Sides, and Back
- Baked White Enamel with Rust Inhibiting Phosphate Coat



UCL-33



UCL-42

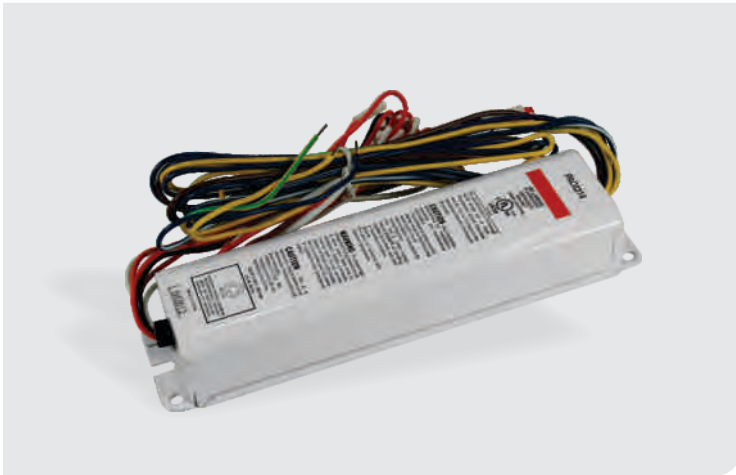


## BAL SERIES

FLUORESCENT EMERGENCY LIGHTING BALLASTS LAMP COMPATIBILITY

Voltage	Lumens	Battery	Rating
<b>BAL500</b>	350-450	2.4V	9.6 Wh
<b>BAL650C</b>	300-750	3.6V	14.4 Wh
<b>BAL700</b>	600-700	3.6V	14.4 Wh
<b>BAL1400</b>	1100-1400	6.0V	24.4 Wh
<b>BAL3000</b>	1450-3500	14.4V	40.0 Wh

### BAL 500

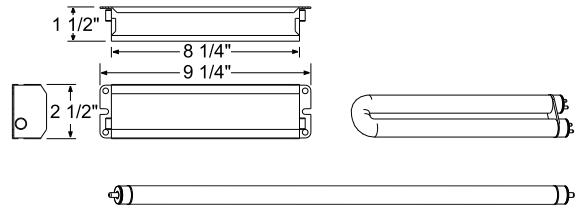


#### BAL SERIES

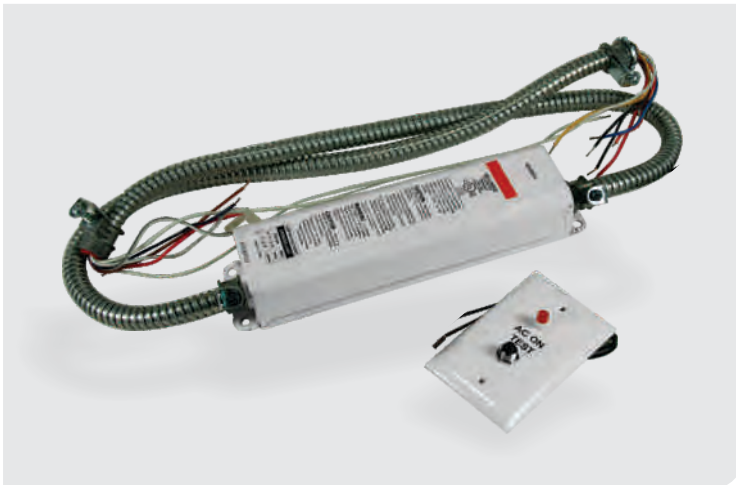
- 120~277VAC, Fully Automatic Operation
- 280mA Charging Current
- 24HR Recharging Time
- 90 Minutes of Emergency Operation
- Wireway or Fixture Mount
- Battery, Charger, Inverter Circuit Included

#### BAL 500

- Compatible with most One-, Two-, Three-, and Four-Lamp Electronic Standard and Dimming AC Ballasts
- Operates:
  - One 17W - 40W T8 - T12,
  - One 13W - 26W 4-Pin Compact
  - One 18W - 36W 4-Pin Long Compact Fluorescent Lamp



### BAL650C-2PIN/BAL650C-4PIN



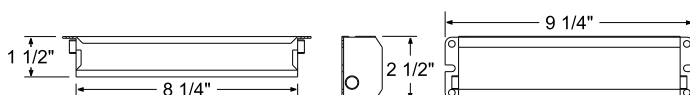
#### BAL650C-2PIN

- Compatible with most One-, Two-, Three-, and Four-Lamp Electronic Standard and Dimming AC Ballasts
- Operates:
  - One 13W - 26W
  - 2-Pin Compact Fluorescent Lamps with GX23 and G24D Bases

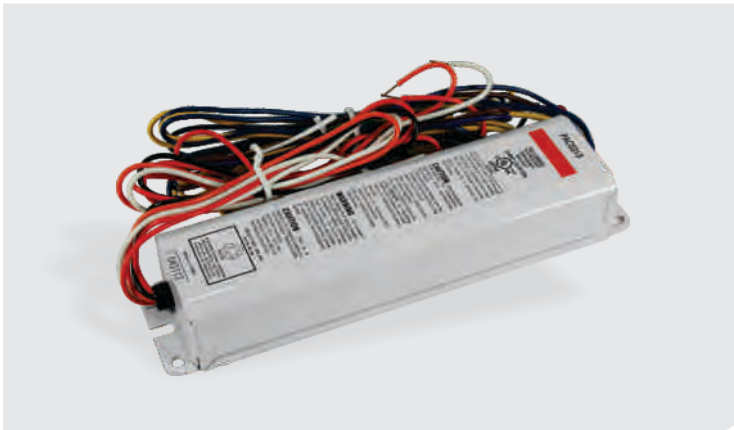


#### BAL650C-4PIN

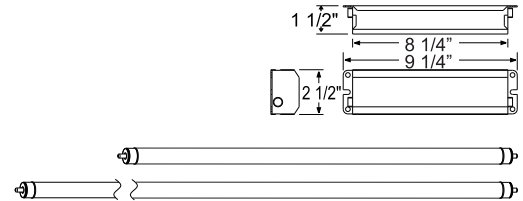
- Compatible with most One-, Two-, Three-, and Four-Lamp Electronic Standard and Dimming AC Ballasts
- Operates:
  - One 13W - 42W
  - Two 13W - 39W Twin, Quad, Triple Twin Long Compacts, or 2D Lamps



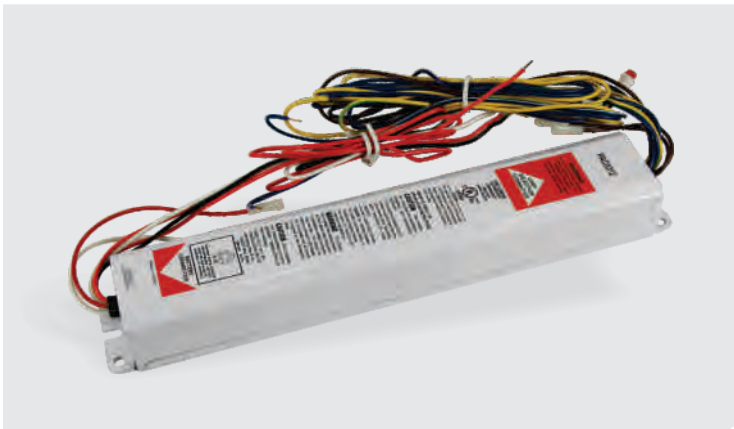
## BAL 700



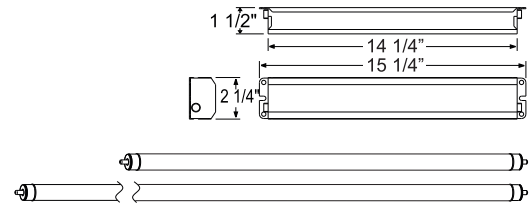
- Compatible with most One-, Two-, Three-, and Four-Lamp Electronic Standard and Dimming AC Ballasts
- Operates:
  - Two 17W - 40W
  - One 17W - 110W T8 - T12
  - Two 13W - 39W
  - One 13W - 42W 4-Pin Compact
  - One 18W - 50W 4-Pin Long Compact Fluorescent Lamp



## BAL 1400



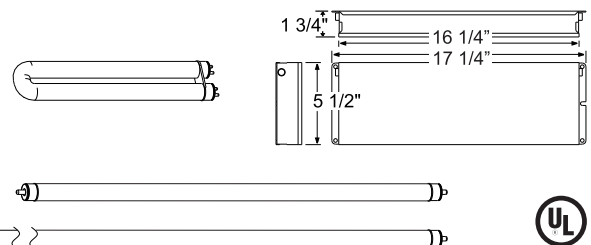
- Compatible with most One-, Two-, Three-, and Four-Lamp Electronic Standard and Dimming AC Ballasts
- Operates:
  - Two 17W - 40W
  - One 17W - 110W T8 - T12
  - Two 13W - 39W
  - One 13W - 42W 4-Pin Compact
  - Two 18W - 36W
  - One 18W - 50W 4-Pin Long Compact Fluorescent Lamp



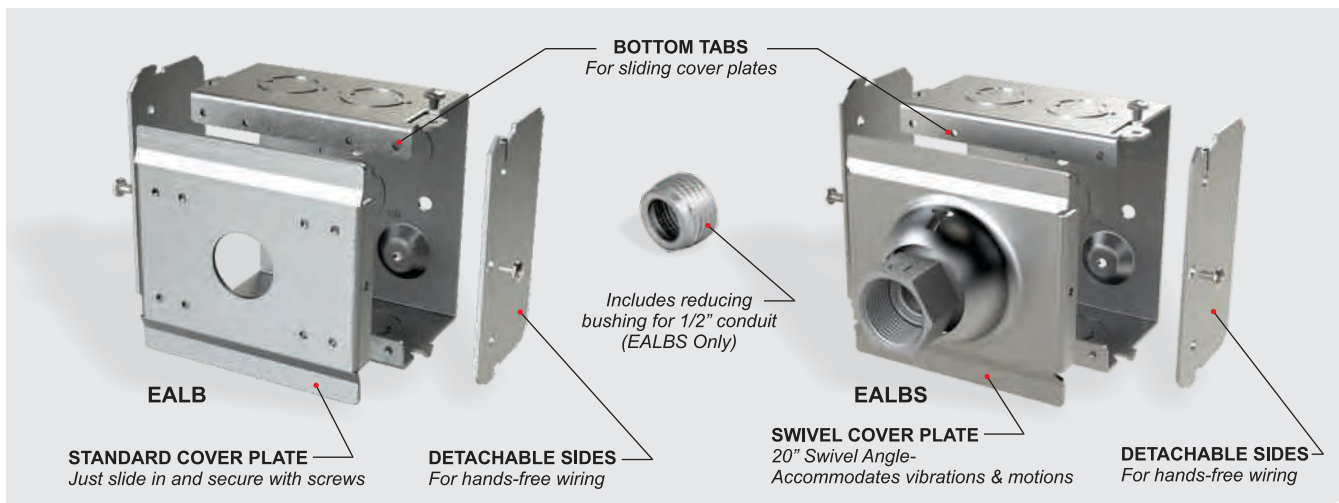
## BAL 3000



- Compatible with most One-, Two-, Three-, and Four-Lamp Electronic Standard and Dimming AC Ballasts
- Operates:
  - Two 17W - 40W
  - One 17W - 215W T8 - T12
  - Two 13W - 42W 4-Pin Compact
  - Two 18W - 36W
  - One 18W - 55W 4-Pin Long Compact Fluorescent Lamp

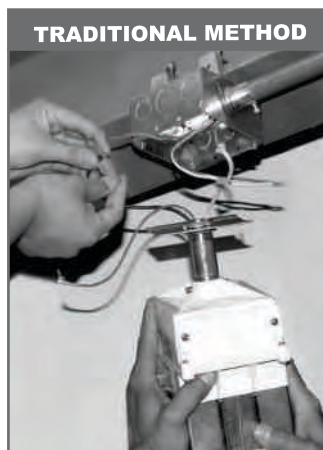


## EALB/EALBS // EASY ACCESS LIGHTING BOXES

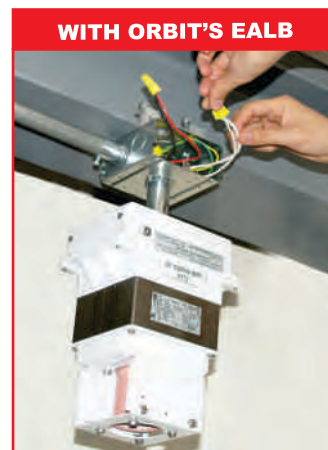


## 50% LABOR SAVINGS

- Detachable sides for easy wiring while fixture waits for you
- UL Rated up to 90 lbs.
- Swivel cover plate includes 1/2" reducing bushing
- Available with either standard or swivel sliding cover plate
- Swivel reduces damage to hanging fixtures when struck
- Complies with NEC 314.27 (A)(D)



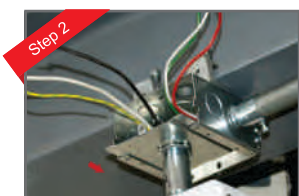
Requires 2 Installers



**ONE INSTALLER DOES IT ALL**



Install EALB with side plate and cover plate removed



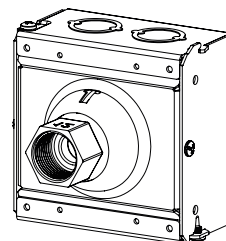
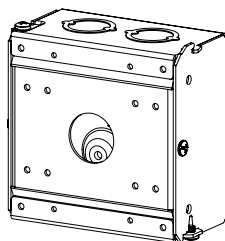
Install cover plate on lighting fixture and slide it back into the box



Simply complete wiring



Attach side plate with screws to finish installation



Cat No.	Description	Dimensions (W x H)	Knockouts Sides	Knockouts Bottom	Volume	Std. Pkg.
<b>EALB</b>	Easy Access Lighting Box	4" x 4"	4-CKO	3-1/2", 1-3/4"	30.2 Cu. In.	50
<b>EALBS</b>	Easy Access Lighting Box with Sliding Swivel	4" x 4"	4-CKO	3-1/2", 1-3/4"	30.2 Cu. In.	10

## CLCSL SERIES // CONDUIT LOCKING CONNECTOR WITH SEISMIC WIRING HOLES

### SOLUTION TO SECURE FIXTURES FROM ROTATING

**SET SCREW**  
Secure Installation of Conduit



**WIRING**  
Added Stability Against Seismic Disturbances



**Locknut**  
Included



**HOOKS**  
Prevents Rotation



**NEW**

- Fits 4", 4-11/16", and 40 junction boxes as well as Orbit's patented EALB/S
- Available for 1/2" and 3/4" threaded conduits.
- Hooks prevent rotation of fixtures such as security cameras and emergency lighting
- Holes allow for use of seismic wiring for added protection against seismic disturbances
- Includes set-screw and locknut for secure fixture installations

Cat. No.	Trade Size	Std. Pkg.	Master Ctn.
<b>CLCSL-50</b>	1/2"	10	100
<b>CLCSL-75</b>	3/4"	10	100

### PREVENT FIXTURE ROTATION



Before Installation



After Installation Prevents Rotation

### INSTALLATION



Step 1  
Fasten CLCSL to threaded conduit



Step 2  
Tighten set-screw to secure conduit



Step 3  
Secure conduit to box using locknut



Step 4  
Mount seismic wires to surroundings and tie to holes of CLCSL

## CHAPTER 1 ADMINISTRATION

### 1.1 Scope.

**1.1.1 Title.** NFPA 101, /Life Safety Code/, shall be known as the /Life Safety Code@/, is cited as such, and shall be referred to herein as "this /Code/" or "the /Code/".

**1.1.2 Danger to Life from Fire.** The /Code/ addresses those construction, protection, and occupancy features necessary to minimize danger to life from the effects of fire, including smoke, heat, and toxic gases created during a fire.

**1.1.3 Egress Facilities.** The /Code/ establishes minimum criteria for the design of egress facilities so as to allow prompt escape of occupants from buildings or, where desirable, into safe areas within buildings.

**1.1.4 Other Fire-Related Considerations.** The /Code/ addresses other considerations that are essential to life safety in recognition of the fact that life safety is more than a matter of egress. The /Code/ also addresses protective features and systems, building services, operating features, maintenance activities, and other provisions in recognition of the fact that achieving an acceptable degree of life safety depends on additional safeguards to provide adequate egress time or protection for people exposed to fire.

**1.1.5 Considerations Not Related to Fire.** The /Code/ also addresses other considerations that, while important in fire conditions, provide an ongoing benefit in other conditions of use, including non-fire emergencies.

**1.1.6 Areas Not Addressed.** The /Code/ does not address the following:

- (1) General fire prevention or building construction features that are normally a function of fire prevention codes and building codes
- (2) Prevention of injury incurred by an individual due to that individual's failure to use reasonable care
- (3) Preservation of property from loss by Fire

**1.2 Purpose.** The Purpose of this /Code/ is to provide minimum requirements, with due regard to function, for the design, operation, and maintenance of buildings and structures for safety to life from fire. Its provisions will also aid life safety in similar emergencies.

### 1.3 Application.

**1.3.1 New and Existing Buildings and Structures.** The /Code/ shall apply to both new construction and existing buildings and existing structures.

**1.3.2 Vehicles and Vessels.** The /Code/ shall apply to vehicles, vessels, or other similar conveyances, as specified in Section 11.6, in which case such vehicles and vessels shall be treated as buildings.

**1.4 Equivalency.** Nothing in this /Code/ is intended to prevent the use of systems, methods, or devices of equivalent or superior quality, strength, fire resistance, effectiveness, durability, and safety over those prescribed by this /Code/.

**1.4.1 Technical Documentation.** Technical documentation shall be submitted to the authority having jurisdiction to demonstrate equivalency.

**1.4.2 Approval.** The system, method, or device shall be approved for the intended purpose by the authority having jurisdiction.

**1.4.3 Equivalent Compliance.** Alternative systems, methods, or devices approved as equivalent by the authority having jurisdiction shall be recognized as being in compliance with this /Code/.

### 1.5 Units and Formulas.

**1.5.1 SI Units.** Metric units of measurement in this /Code/ are in accordance with the modernized metric system known as the International System of Units (SI).

**1.5.2 Primary Values.** The inch-pound value for a measurement, and the SI value given in parentheses, shall each be acceptable for use as primary units for satisfying the requirements of this /Code/.

**1.6 Enforcement.** This /Code/ shall be administered and enforced by the authority having jurisdiction designated by the governing authority.

## CHAPTER 7 MEANS OF EGRESS

### 7.9 Emergency Lighting

#### 7.9.1 General.

**7.9.1.1** Emergency lighting facilities for means of egress shall be provided in accordance with Section 7.9 for the following:

- (1) Buildings or structures where required in Chapters 11 through 43
- (2) Underground and limited access structures as addressed in Section 11.7
- (3) High rise buildings as required by other sections of this /Code/
- (4) Doors equipped with delayed-egress locks
- (5) Stair shafts and vestibules of smokeproof enclosures, for which the following also apply:

(a) The stair shaft and vestibule shall be permitted to include a standby generator that is installed for the smokeproof enclosure mechanical ventilation equipment.

(b) The standby generator shall be permitted to be used for the stair shaft and vestibule emergency lighting power supply.

- (6) New access-controlled egress doors in accordance with 7.2.1.6.2

**7.9.1.2** For the purposes of 7.9.1.1, exit access shall include only designated stairs, aisles, corridors, ramps, escalators, and passageways leading to an exit. For the purpose of 7.9.1.1, exit discharge shall include only designated stairs, ramps, aisles, walkways, and escalators leading to a public way.

**7.9.1.3** Where maintenance of illumination depends upon changing from one energy source to another, a delay of not more than 10 seconds shall be permitted.

#### 7.9.2 Performance of System.

**7.9.2.1** Emergency illumination shall be provided for not less than 1½ hours in the event of failure of normal lighting. Emergency lighting facilities shall be arranged to provide initial illumination that is no less than an average of 1 ft-candle (10.8 lux) and, at any point, not less than 0.1 ft-candle (1.1 lux), measured along the path of egress at floor level. Illumination levels shall be permitted to decline to not less than an average of 0.6 ft-candle (6.5 lux) and, at any point, not less than 0.06 ft-candle (0.65 lux) at the end of the 1½ hours. A maximum-to-minimum illumination uniformity ratio of 40 to 1 shall not be exceeded.

**7.9.2.2** New emergency power systems for emergency lighting shall be at least Type 10, Class 1.5, Level 1, in accordance with NFPA 110, /Standard for Emergency and Standby Power Systems/.

**7.9.2.3** The emergency lighting system shall be arranged to provide the required illumination automatically in the event of any interruption of normal lighting due to any of the following:

- (1) Failure of public utility or other outside electrical power supply
- (2) Opening of a circuit breaker or fuse
- (3) Manual act(s), including accidental opening of a switch controlling normal lighting facilities.

**7.9.2.4** Emergency generators used to provide power to emergency lighting systems shall be installed, tested, and maintained in accordance with NFPA 110, /Standard for Emergency and Standby Power Systems/. Stored electrical energy systems, where required in this /Code/, other than battery systems for emergency luminaires in accordance with NFPA 7.9.2.5, shall be installed and tested in accordance with NFPA 111, /Standard on Stored Electrical Energy Emergency and Standby Power Systems/.

**7.9.2.5** Unit equipment and battery systems for emergency luminaires shall be listed to ANSI/UL 924, /Standard for Emergency Lighting and Power Equipment/.



**7.9.2.6** Existing battery-operated emergency lights shall use only reliable types of rechargeable batteries provided with suitable facilities for maintaining them in properly charged condition. Batteries used in such lights or units shall be approved for their intended use and shall comply with NFPA 70, /National Electrical Code/.

**7.9.2.7** The emergency lighting system shall be either continuously in operation or capable of repeated automatic operation without manual intervention.

**7.9.3** Periodic Testing of Emergency Lighting Equipment.

**7.9.3.1** Required emergency lighting systems shall be tested in accordance with one of the three options offered by 7.9.3.1.1, 7.9.3.1.2, or 7.9.3.1.3.

**7.9.3.1.1** Testing of required emergency lighting systems shall be permitted to be conducted as follows:

- (1) Functional testing shall be conducted monthly, with a minimum of 3 weeks and a maximum of 5 weeks between tests, for not less than 30 seconds, except as otherwise permitted by 7.9.3.1.1(2).
- (2) The test interval shall be permitted to be extended beyond 30 days with the approval of the authority having jurisdiction.
- (3) Functional testing shall be conducted annually for a minimum of 1½ hours if the emergency lighting system is battery powered.
- (4) The emergency lighting equipment shall be fully operational for the duration of the tests required by 7.9.3.1.1(1) and 7.9.3.1.1(3).
- (5) Written records of visual inspections and tests shall be kept by the owner for inspection by the authority having jurisdiction.

**7.9.3.1.2** Testing of required emergency lighting systems shall be permitted to be conducted as follows:

- (1) Self-testing/self-diagnostic emergency battery-operated emergency lighting equipment shall be provided.
- (2) Not less than once every 30 days, self-testing/self-diagnostic battery-operated emergency lighting equipment shall automatically perform a test with a duration of a minimum 30 seconds and a diagnostic routine.
- (3) Self-testing/self-diagnostic battery-operated emergency lighting equipment shall indicate failures by a status indicator.
- (4) A visual inspection shall be performed at intervals not exceeding 30 days.
- (5) Self-testing/self-diagnostic battery-operated emergency lighting equipment shall be fully operational for the duration of the 1½-hour test.
- (6) Written records of visual inspections and test shall be kept by the owner for inspection by the authority having jurisdiction.

**7.9.3.1.3** Testing of required emergency lighting systems shall be permitted to be conducted as follows:

- (1) Computer-based, self-testing/self-diagnostic battery operated emergency lighting equipment shall be provided.
- (2) Not less than once every 30 days, emergency lighting equipment shall automatically perform a test with a duration of a minimum of 30 seconds and a diagnostic routine.
- (3) The emergency lighting equipment shall automatically perform annually a test for a minimum of 1½ hours.
- (4) The emergency lighting equipment shall be fully operational for the duration of the tests required by 7.9.3.1.3(2) and 7.9.3.1.3(3).
- (5) The computer-based system shall be capable of providing a report of the history of tests and failures at all times.

**7.10 Marking Of Means Of Egress**

**7.10.1 General.**

**7.10.1.1 Where required.** Means of egress shall be marked in accordance with Section 7.10 where required in Chapters 11 through Chapter 43.

**7.10.2 Exits.**

**7.10.1.1** Exits, other than main exterior exit doors that obviously and clearly are identifiable as exits, shall be marked by an approved sign that is readily visible from any direction of exit access.

**7.10.1.2** Horizontal components of the egress path within an exit enclosure shall be marked by approved exit or directional exit signs where the continuation of the egress path is not obvious.

**7.10.1.3 Exit Door Tactile Signage.** Tactile signage shall be provided to meet all the following criteria, unless otherwise provided in 7.10.1.4:

- (1) Tactile signage shall be located at each door requiring an exit sign.
- (2) Tactile signage shall read as follows: EXIT.
- (3) Tactile signage shall comply with ICC/ANSI A117.1, /American National Standard for Accessible and Usable Buildings and Facilities/.

**7.10.1.4** Existing Exemption. The requirements of 7.10.1.3 shall not apply to existing buildings, provided that the occupancy classification does not change.

**7.10.1.5 Exit Access.**

**7.10.1.5.1** Access to exits shall be marked by approved, readily visible signs in all cases where the exit or way to reach the exit is not readily apparent to the occupants.

**7.10.1.5.2** New sign placement shall be such that no point in the exit access corridor is in excess of the rated viewing distance or 100 ft (30m), whichever is less, from the nearest sign.

**7.10.1.6 Floor Proximity Exit Signs.** Where floor proximity exit signs are required in Chapters 11 through 43, such signs shall comply with 7.10.3, 7.10.4, 7.10.5, and 7.10.6 for externally illuminated signs and 7.10.7 for internally illuminated signs. Such signs shall be located near the floor level in addition to those signs required for doors or corridors. The bottom of the sign shall be not less than 6 in. (150 mm), but not more than 18 in. (455 mm), above the floor. For exit doors, the sign shall be mounted on the door or adjacent to the door, with the nearest edge of the sign within 4 in. (100 mm) of the door frame.

**7.10.1.7 Floor Proximity Egress Path Marking.** Where floor proximity egress path marking is required in Chapters 11 through 43, an approved floor proximity egress path marking system that is internally illuminated shall be installed within 18 in. (455 mm) of the floor. Floor proximity egress path marking systems shall be listed in accordance with ANSI/UL 1994, /Standard for Luminous Egress Path Marking Systems/. The system shall provide a visible delineation of the path of travel along the designated exit access doorways, hallways, corridors, or other such architectural features. The system shall operate continuously or at any time the building fire alarm is activated. The activation, duration, and continuity of operation of the system shall be in accordance with 7.9.2. The system shall be maintained in accordance with the product manufacturing listing.

**7.10.1.8 Visibility.** Every sign required in Section 7.10 shall be located and of such size, distinctive color, and design that it is readily visible and shall provide contrast with decorations, interior finish, or other signs. No decorations, furnishings, or equipment that impairs visibility of a sign shall be permitted. No brightly illuminated sign (for other than exit purposes), display, or object in or near the line of vision of the required exit sign that could detract attention from the exit sign shall be permitted.

**7.10.1.9 Mounting Location.** The bottom of new egress markings shall be located at a vertical distance of not more than 6 ft 8 in. (2030 mm) above the top edge of the egress opening intended for designation by that marking. Egress markings shall be located at a horizontal distance of not more than the required width of the egress opening, as measured from the edge of the egress opening intended for designation by that marking to the nearest edge of the marking.

**7.10.2 Directional Signs.**

**7.10.2.1** A sign complying with 7.10.3, with a directional indicator showing the direction of travel, shall be placed in every location

where the direction of travel to reach the nearest exit is not apparent.

**7.10.2.2** Directional exit signs shall be provided within horizontal components of the egress path within exit enclosures as required by 7.10.1.2.2.

### 7.10.3 Sign Legend.

**7.10.3.1** Signs required by 7.10.1 and 7.10.2 shall read as follows in plainly legible letters, or other appropriate wording shall be used: **EXIT**

7.10.3.2 Where approved by the authority having jurisdiction, pictograms in compliance with NFPA 170, /Standard for Fire Safety and Emergency Symbols/, shall be permitted.

**7.10.4 Power Source.** Where emergency lighting facilities are required by the applicable provisions of Chapter 11 through Chapter 43 for individual occupancies, the signs, other than approved self-luminous signs and listed photoluminescent signs in accordance with 7.10.7.2, shall be illuminated by the emergency lighting facilities. The level of illumination of the signs shall be in accordance with 7.10.6.3 or 7.10.7 for the required emergency lighting duration as specified in 7.9.2.1. However, the level of illumination shall be permitted to decline to 60 percent at the end of the emergency lighting duration.

### 7.10.5 Illumination of Signs.

**7.10.5.1** General. Every sign required by 7.10.1.2 or 7.10.1.5, or 7.10.8.1, other than where operations or processes require low lighting levels, shall be suitably illuminated by a reliable light source. Externally and internally illuminated signs shall be legible in both the normal and emergency lighting mode.

### 7.10.5.2 Continuous Illumination.

**7.10.5.2.1** Every sign required to be illuminated by 7.10.6.3, 7.10.7, and 7.10.8.1 shall be continuously illuminated as required under the provisions of Section 7.8, unless otherwise provided in 7.10.5.2.2.

**7.10.5.2.2** Illumination for signs shall be permitted to flash on and off upon activation of the fire alarm system.

### 7.10.6 Externally Illuminated Signs.

#### 7.10.6.1 Size of Signs.

**7.10.6.1.1** Externally illuminated signs required by 7.10.1 and 7.10.2, other than approved existing signs, unless otherwise provided in 7.10.6.1.2, shall read EXIT or shall use other appropriate wording in plainly legible letters sized as follows:

- (1) For new signs, the letters shall be not less than 6 in. (150 mm) high, with the principal strokes of letters not less than 3/4 in. (19mm) wide.
- (2) For existing signs, the required wording shall be permitted to be plainly legible letters not less than 4 in. (100 mm) high.
- (3) The word EXIT shall be in letters of a width not less than 2 in. (51mm), except the letter I, and the minimum spacing between letters shall be not less than 3/8 in. (9.5 mm).
- (4) Sign legend elements larger than the minimum established in 7.10.6.1.1(1) through (3) shall use letter widths, strokes, and spacing in proportion to their height.

**7.10.6.1.2** The requirements of 7.10.6.1.1 shall not apply to marking required by 7.10.1.3 and 7.10.1.7.

#### 7.10.6.2 Size and location of Directional Indicator.\*

**7.10.6.2.1** Directional indicators, unless otherwise provided in 7.10.6.2.2, shall comply with the following:

- (1) The directional indicator shall be located outside of the EXIT legend, not less than 3/8 in. (9.5 mm) from any letter.
- (2) The directional indicator shall be of a chevron type, as shown in Figure 7.10.6.2.1.

(3) The directional indicator shall be identifiable as a directional indicator at a distance of 40 ft (12 m).

(4) A directional indicator larger than the minimum established for compliance with 7.10.6.2.1(3) shall be proportionately increased in height, width and stroke.

(5) The directional indicator shall be located at the end of the sign for the direction indicated.



Chevron Style Indicator

FIGURE 7.10.6.2.1 Chevron-Type Indicator.\*

**7.10.6.2.2** The requirements of 7.10.6.2.1 shall not apply to approved existing signs.

**7.10.6.3 Level of Illumination.** Externally illuminated signs shall be illuminated by not less than 5 ft-candles (54 lux) at the illuminated surface and shall have a contrast ratio of not less than 0.5.

### 7.10.7 Internally Illuminated Signs.

**7.10.7.1 Listing.** Internally illuminated signs shall be listed in accordance with ANSI/UL 924, /Standard for Safety Emergency Lighting and Power Equipment/, unless they meet one of the following criteria:

- (1) They are approved existing signs.
- (2) They are existing signs having the required wording in legible letters not less than 4 in. (100 mm) high.
- (3) They are signs that are in accordance with 7.10.1.3 and 7.10.1.6.

**7.10.7.2 Photoluminescent Signs.** The face of a photoluminescent sign shall be continually illuminated while the building is occupied. The illumination levels on the face of the photoluminescent sign shall be in accordance with its listing. The charging illumination shall be a reliable light source, as determined by the authority having jurisdiction. The charging light source, shall be of a type specified in the product markings.

### 7.10.8 Special Signs.

#### 7.10.8.1 Sign Illumination.

**7.10.8.1.1** Where required by other provisions of this /Code/, special signs shall be illuminated in accordance with 7.10.5, 7.10.6.3, and 7.10.7.

**7.10.8.1.2** Where emergency lighting facilities are required by the applicable provisions of Chapters 11 through 43, the required illumination of special signs shall additionally be provided under emergency lighting conditions.

**7.10.8.2 Characters.** Special signs, where required by other provisions of this /Code/, shall comply with the visual character requirements of ICC/ANSI A117.1, /American National Standard for Accessible and Usable Buildings and Facilities/.

#### 7.10.8.3 No Exits.

**7.10.8.3.1** Any door, passage, or stairway that is neither an exit nor a way of exit access and that is located or arranged so that it is likely to be mistaken for an exit shall be identified by a sign that reads as follows:

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# PRODUCT LINES

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