

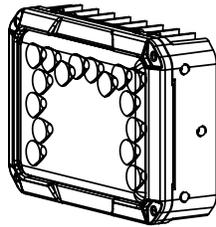


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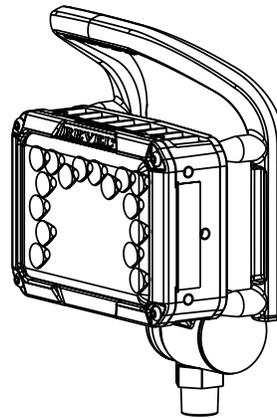
BRASS COMPANY

STYLE ELRE REVEL™ LED SCENELIGHT INSTALLATION, OPERATING AND MAINTENANCE INSTRUCTIONS

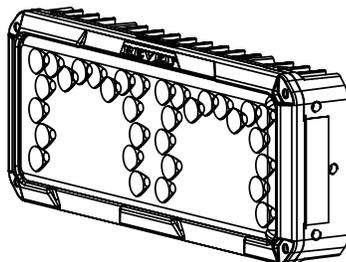
The following is intended to provide the basic instructions for installation, operation, and maintenance for the Revel LED Scene Light. **IMPORTANT: PLEASE READ THESE INSTRUCTIONS CAREFULLY, NOTE THE SAFE OPERATIONAL REQUIREMENTS, WARNINGS, AND CAUTIONS. USE THIS PRODUCT CORRECTLY, AND WITH CARE FOR THE PURPOSE FOR WHICH IT IS INTENDED. FAILURE TO DO SO MAY CAUSE DAMAGE, OR PERSONAL INJURY, AND WILL INVALIDATE THE WARRANTY.**



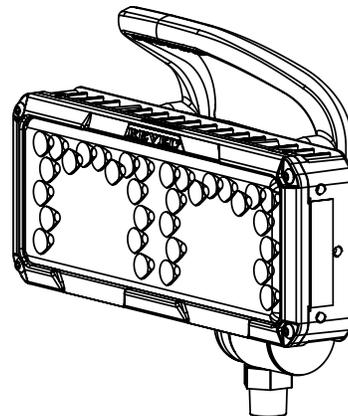
ELRE-SLDC
SURFACE MOUNT



ELRE-SLDC
SWIVEL MOUNT



ELRE-XLDC
SURFACE MOUNT



ELRE-XLDC
SWIVEL MOUNT

⚠ WARNING Read and follow the operating instructions before use.

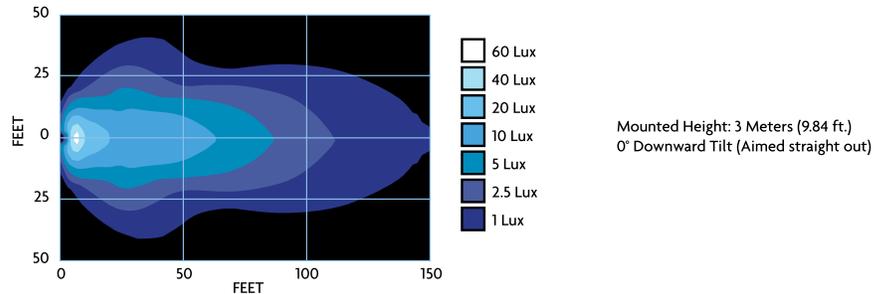
⚠ CAUTION Hot surfaces! Wear gloves when handling during operation.

Product Ratings

	DC Reveal	
	14,000 Lumen Head ELRE-SLDC	28,000 Lumen Head ELRE-XLDC
Wattage	120 W	240 W
Input Voltage Range	11-32 VDC	11-32 VDC
Nominal Supply Current 12V (24V)	10A (5A)*	20A (10A)*
Nominal Frequency	N/A	
Operating Frequency Range	N/A	
Operating Temperature Range	-40°C to 50°C**	
Installation Spacing	.5m from front of light	
Head Weight	3.1 lbs (1.4 kg)	5.0 lbs (2.3kg)

*The light is equipped with a constant wattage driver, so the current draw will decrease as the supply voltage increases.

** The indoor operational range is the same as the outdoor operational range (-40C. to +50C.)



Electrical Installation

⚠ WARNING Installation must be done by a qualified electrical technician.

Ensure that an adequate power source is available to operate light within the voltage limits listed in the above table.

Ensure that power is off prior to connecting to a power source.

Ensure that an appropriate sized circuit breaker or fuse is installed in the circuit to the light.

When installing the light head, it should be wired as follows:

Surface Mount and Swivel Mount less switch

Black = Battery Negative

Red = Battery Positive

White = Mode Select Input (Optional momentary switch to battery positive, see wiring diagrams)

Green = No Connection

Swivel Mount (with switch)

Black = Battery Negative

Red = Battery Positive

White = not used

Green = No Connection

Use appropriate wire gauge to connect lights. Refer to chart below for required wire gauge sizes.

WIRE SIZE REQUIREMENTS WHEN USING A 12VDC POWER SOURCE

Wire Length - ft (m)

Revel Model	10 (3)	20 (6)	30 (9.1)	40 (12.2)	50 (15.2)	60 (18.3)	70 (21.3)	80 (24.4)	90 (27.4)	100 (30.5)	SLO-BL0 Fuse or Circuit breaker
ELRE-SLDC	12 (4.0)	12 (4.0)	12 (4.0)	12 (4.0)	10 (6.0)	10 (6.0)	8 (10.0)	8 (10.0)	8 (10.0)	8 (10.0)	15A
ELRE-XLDC	10 (6.0)	10 (6.0)	10 (6.0)	10 (6.0)	8 (10.0)	8 (10.0)	8 (10.0)	6 (16.0)	6 (16.0)	6 (16.0)	25A

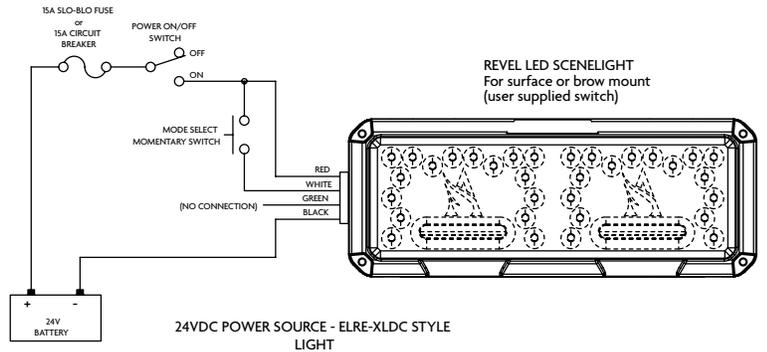
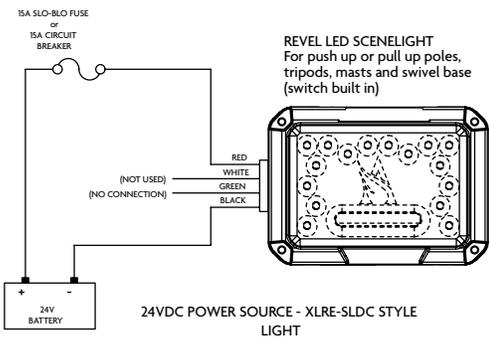
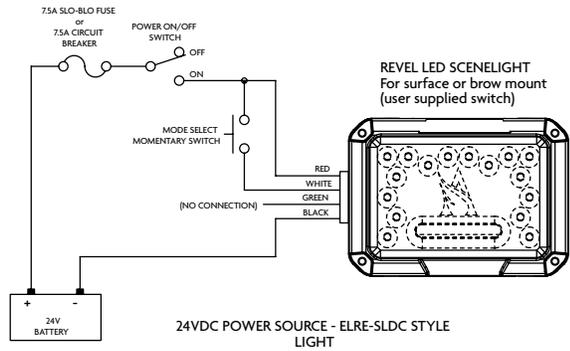
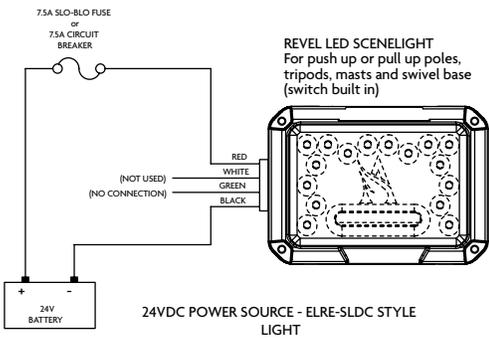
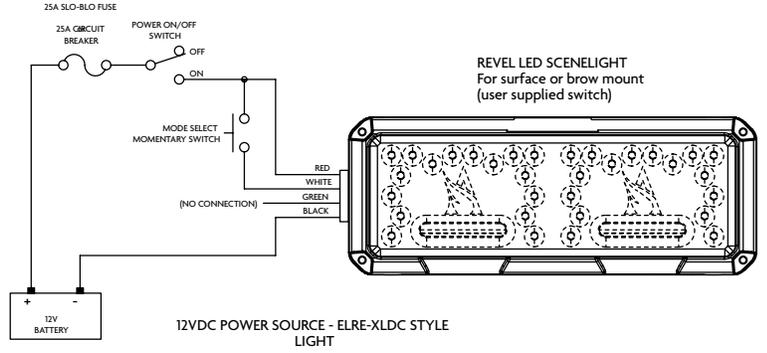
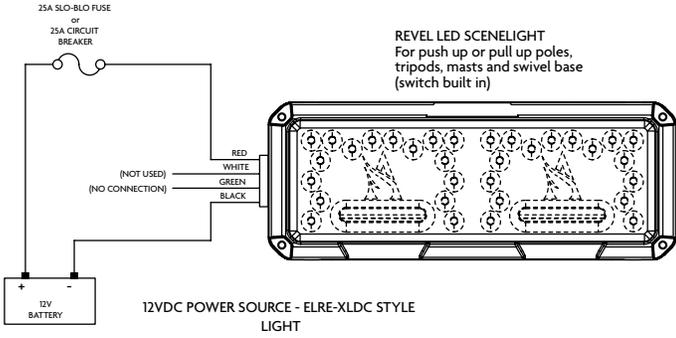
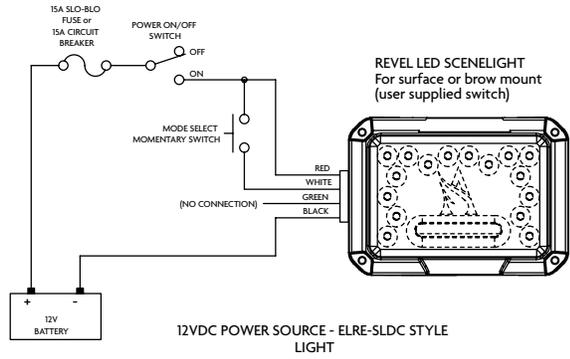
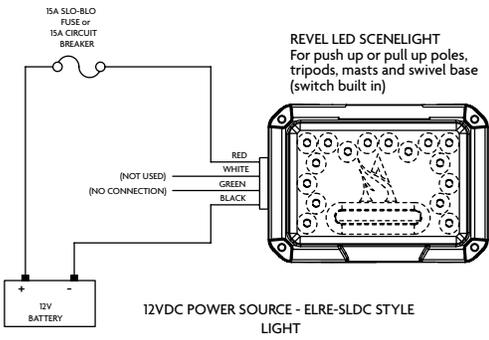
*wire size is listed in AWG (mm2)

WIRE SIZE REQUIREMENTS WHEN USING A 24VDC POWER SOURCE

Wire Length - ft (m)

Revel Model	10 (3)	20 (6)	30 (9.1)	40 (12.2)	50 (15.2)	60 (18.3)	70 (21.3)	80 (24.4)	90 (27.4)	100 (30.5)	SLO-BL0 Fuse or Circuit breaker
ELRE-SLDC	16 (1.5)	16 (1.5)	16 (1.5)	16 (1.5)	16 (1.5)	16 (1.5)	14 (2.5)	14 (2.5)	14 (2.5)	14 (2.5)	7.5A
ELRE-XLDC	14 (2.5)	14 (2.5)	14 (2.5)	14 (2.5)	14 (2.5)	14 (2.5)	12 (4.0)	12 (4.0)	12 (4.0)	12 (4.0)	15A

*wire size is listed in AWG (mm2)



Mechanical Installation

The Revel Scenelight provides for maximum installation flexibility. M8x1.25 tapped holes are provided on the sides and back. Dimensions are given on pages 7 through 10.

Be sure to mount in a location that allows adequate air flow through the fins on the back of the light. Obstructing or covering the fins can cause the light to run hot which will reduce light output.

Do not allow the lens to come into contact with other objects when the light is turned on. Objects can damage the lens by causing hotspots.

Surface Mount Installation

Envelope dimensions are given on page 9.

The M8x1.25 tapped holes on the back of the scenelight can be used for mounting on a flat surface. These require the panel have corresponding hole for fasteners to be inserted from behind the panel. Locations for these tapped holes are given on page 7.

Jacknuts, screws, and silicone rubber mounting pads are provided to attach the scenelight to a flat surface. The mounting pads reduce the tendency for water to get behind the panel and reduces the heat transfer to said panel. The use of these mounting pads is optional where water is not a concern and where improved heat transfer to the mounting panel is desired.

The jacknuts require a $\varnothing.390$ (10mm) hole and can accommodate a panel thickness up to .190" (5mm). Dimensions for the hole pattern is given on page 7.

Swivel Mounted Installation

A 3/4" NPT male connection is provided at the bottom of the Swivel Mount. Use Loctite 222 or Permabond LM113. See page 10 for more detail.

OPERATION:

Switch operation:

All Revel lights **that are installed with a swivel** (push-up, pull-up, tripod, swivel base, manual mast, air operated pole and portable base) include a switch. The switch has two functions – it turns the power on and off and also cycles through the modes. To turn the light on and off, toggle the switch from down to center position. To cycle through the modes, push the switch momentarily from the center position to the up position. This will toggle to the next mode. When the Revel is first turned on, it will always power up in the HIGH mode. The first time the mode switch is pushed, it will cycle to the MEDIUM setting, the second time it is pushed, it will cycle to the SPOT ONLY setting. Pressing a third time will cycle back to the HIGH setting. The only way to toggle through the modes is to use the switch on the light head. There is no way to remotely change the mode for lights mounted with a swivel.

Revel lights that do not include a swivel (brow and surface mount) do not have a switch. To control the power or toggle through the modes separate switches need to be used. When the mode wire is used and properly installed to a momentary switch, it will operate the same as described above. Surface and brow mounted lights will also always power up in the HIGH setting. Refer to the wiring section of these instructions for details on wiring switches to the Revel brow and surface mounted lights.

Operational Features:

The Revel will provide stable, maximized light output within its normal operating ranges for voltage and temperature. Should the lamp be operated outside these ranges there may be a change in the light output as the lamp attempts to maintain functionality despite the improper conditions.

Thermal performance:

The Revel LED lamp heads are designed to provide maximum light output throughout a wide operating temperature range while providing the highest level of LED life/reliability. The maximum ambient operating temperature for peak light output is -40F to +122F [-40C to +50C].

Thermal foldback:

The Revel LED lamp contains circuitry/software that will foldback the light output at elevated heat sink temperatures. This will happen at a slow rate and will stop when the temperature stops at a maximum factory set limit.

Over/Under Voltage:

The Revel's advanced control electronics allow for a very wide operating voltage range that is suitable for today's 12/24VDC vehicle charging systems. However, poor wiring or malfunctioning charging/battery systems can lead to operational conditions outside of the acceptable input range for the Revel LED lamp.

Under Voltage:

Operating below the NFPA 11V limit will cause excessive current draw through the power electronics as the lamp attempts to maintain maximum light output. To protect the wiring and the lamp, the Revel will begin to drop out strings of LEDs until the voltage level returns to an acceptable level. Since low voltage conditions typically occur due to a weak battery and/or undersized wiring, a pulsing of several LEDs is typically visible. This is due to the supply voltage at the lamp quickly rising whenever one or more strings of LEDs are disabled. The lamp sees this increase in voltage and attempts to resume normal light operation by turning LEDs back on. This in turn drops the voltage again and the LEDs will turn back off. This pulsing cycle will end whenever the supply voltage/current condition is corrected.

Over Voltage:

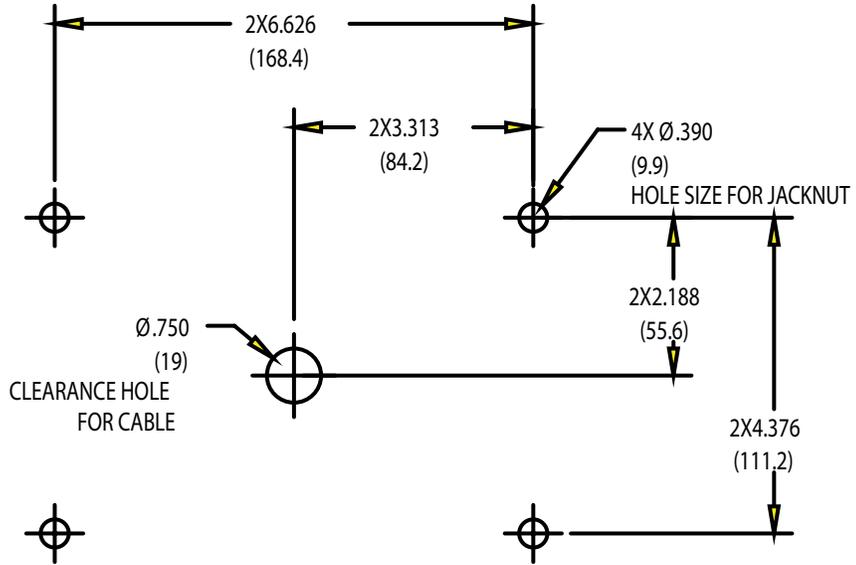
Sustained voltages over 32V will cause permanent damage to the lamp.

MAINTENANCE:

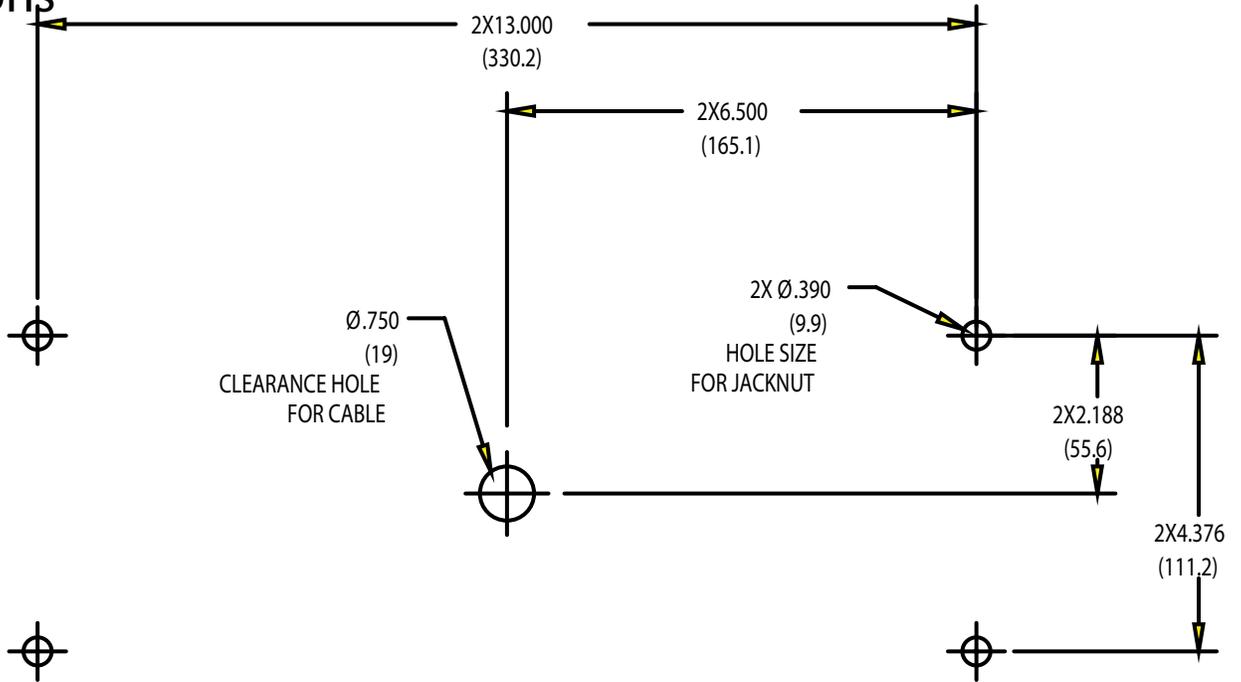
Due to the inherent long life that comes with using LED's, there is very little maintenance required. When the light requires cleaning, wipe down with a mild soap and water mixture only. Do not use industrial strength or other chemical cleaners as this may damage the lens or other parts of the light.

The light source contained in this luminaire shall only be replaced by the manufacturer or his service agent or a similar qualified person.

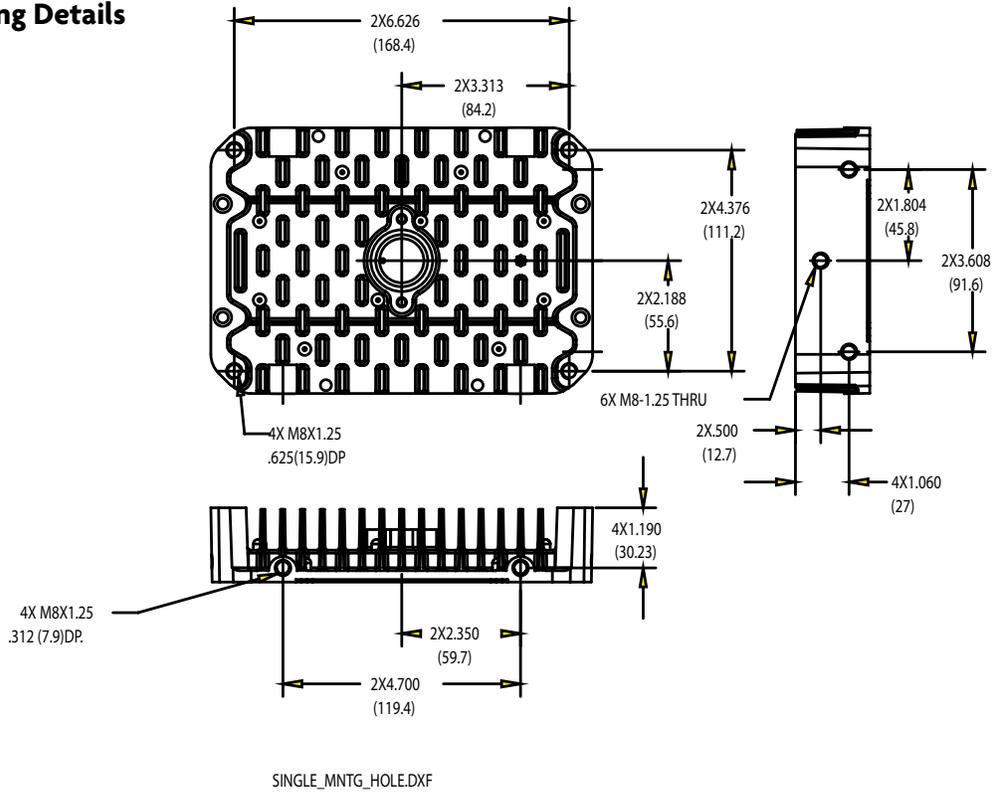
ELRE-SLDC Surface Mount Hole Locations



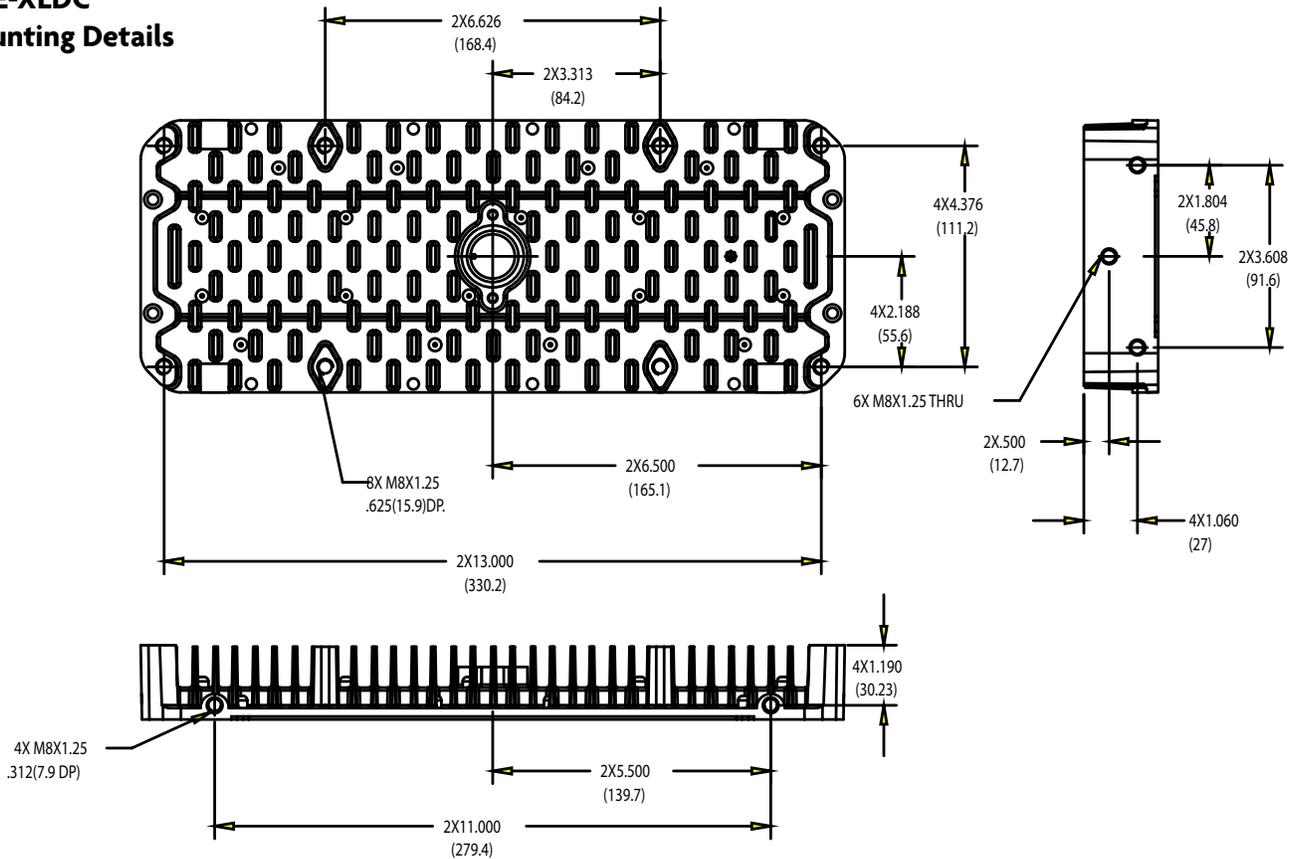
ELRE-XLDC Surface Mount Hole Locations



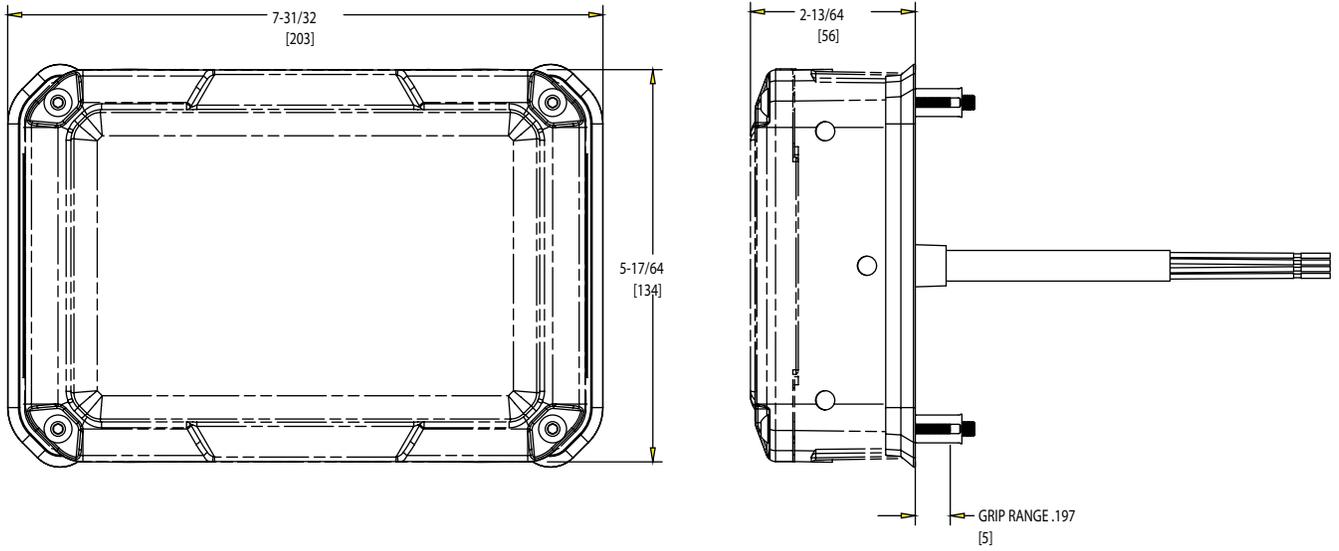
ELRE-SLDC
Mounting Details



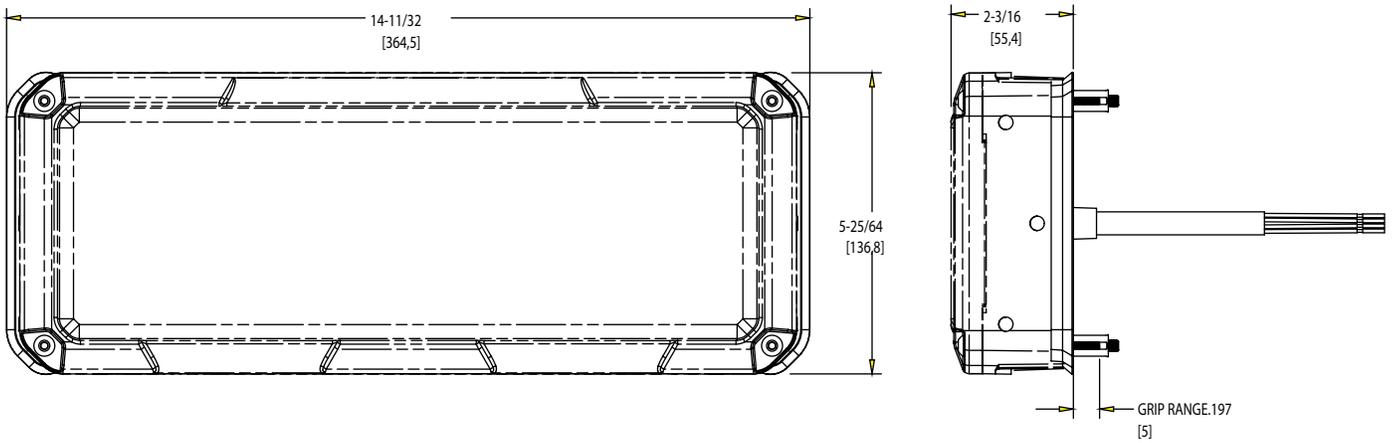
ELRE-XLDC
Mounting Details



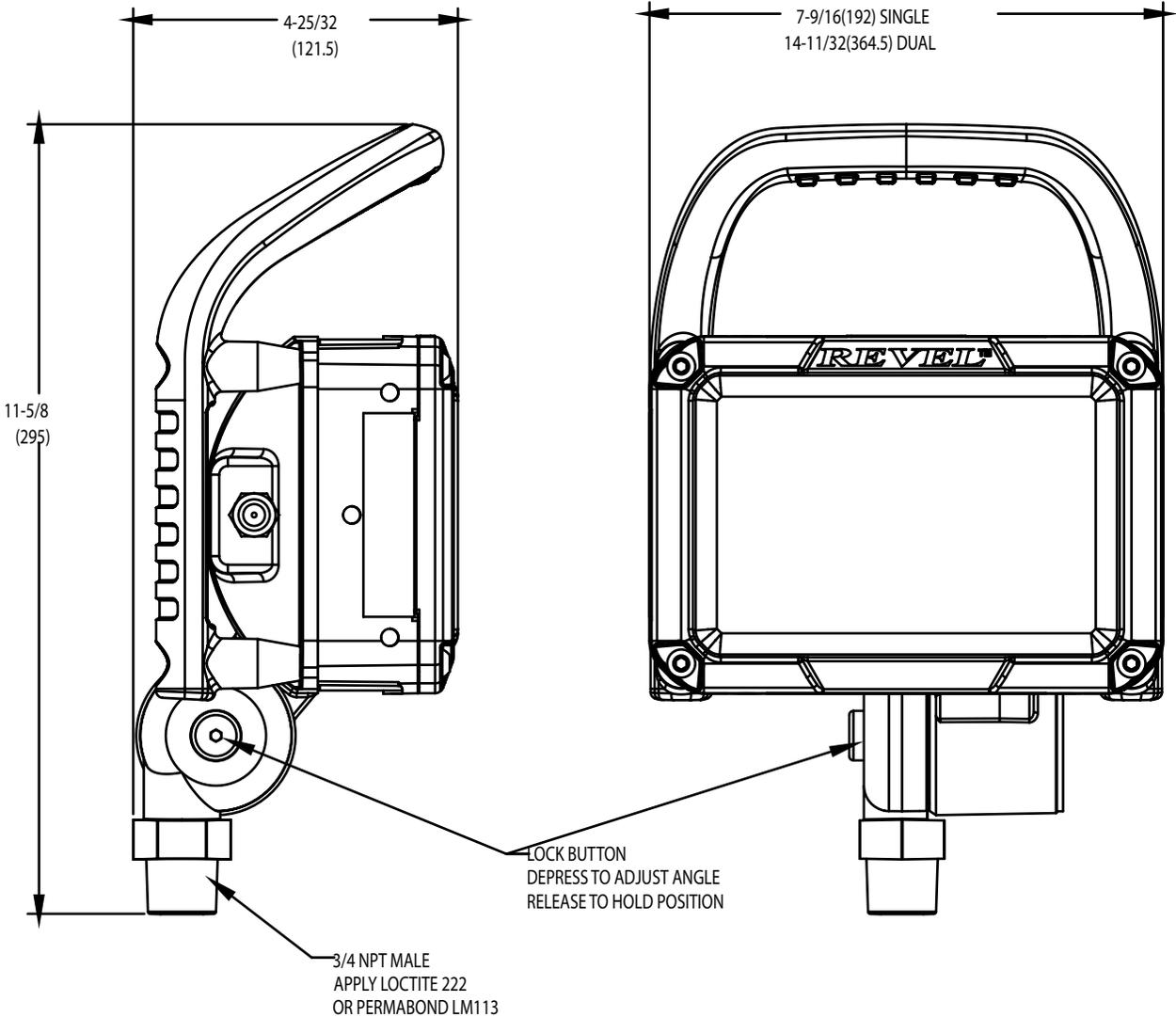
ELRE-SLDC
Surface Mount Envelope Dimensions



ELRE-XLDC
Surface Mount Envelope Dimensions



ELRE-SLDC
ELRE-XLDC
Swivel Mount Envelope Dimensions



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