

Star Series™ Fiber J-Box

(CLSFJB or CLSFJB2) Use only with Class 2 power units



Intertek

4005496

ETL LISTED

Conforms to UL STD 2108;

Certified to CSA STD C22.2 #250.0

Installation Instructions

Read all instructions before attempting to perform installation work
Suitable for Wet Locations • Suitable for Outdoor Use • Type 3R Rainproof Enclosure

FOR USE WITH POOL AND SPA PRODUCTS

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IMPORTANT SAFETY INFORMATION

CAUTION: POWER AND SIGNAL OUTPUT CONDUITS MUST BE NON-METALLIC

ATTENTION: CONDUITS POUR PUISSANCE DE SORTIE ET SORTIE SIGNAL DOIT ETRE NON METALLIQUE



ELECTRICAL SHOCK HAZARD – SWITCH DOES NOT TURN OFF INPUT POWER.

Failure to disconnect input power before servicing can lead to serious injury, or death.

Disconnect input power before servicing.

Replace all parts and panels before reconnecting power and operating

DANGER – FAILURE TO FOLLOW THESE WARNINGS, INSTRUCTIONS, AND THE OWNER'S MANUAL MAY RESULT IN SERIOUS INJURY OR DEATH.

Basic safety precautions shall be observed when installing and operating the connected LED Water Feature (CLSFJB / CLSFJB2) and/or other associated equipment:

1. A qualified electrician must install the CLSFJB in accordance with the requirements of NEC ANSI/NFPA 70 and Article 680.
2. The CLSFJB must be mounted on a flat vertical surface. The unit must be a minimum of 4 inches above the ground level, pool deck, or higher than 8 inches above the maximum pool water level, whichever provides greatest elevation. The unit must be positioned a minimum of 4 feet (1.2 m) from the inside wall of the pool, unless separated from the pool by a solid fence, wall, or other permanent barrier.
3. Do not exceed the maximum electrical ratings of the LED luminaire/s housed within this CLSFJB / CLSFJB2, or components, wiring devices, and current carrying capacity of the conductors.
4. This CLSFJB is intended to be used with low voltage damp rated luminaires that comply with Article 680 of the National Electrical Code and does not require bonding due to their isolated application design.
5. **For supply connection, use only with Class 2 power units.**
6. **DO NOT CONNECT THIS 12V LIGHT DIRECTLY TO A 120VAC CIRCUIT - LIGHT WILL BE DAMAGED.**
7. This device should never operate equipment that could cause property damage, bodily injury, or death should it be activated unexpectedly.
8. Use rain-tight or wet location hubs that comply with the requirements in the standard for conduit, tubing, and cable fittings (UL514b) only.
9. The conduit hub is to be connected to the power input conduit before the hub is connected to the enclosure.

Electrical Ratings

Do not exceed the maximum electrical output rating of each unit listed below.

Model	Input
CLSFB	12VAC, 60 Hz, 0.42A max
CLSFB2	12VAC, 60 Hz, 0.42A max (x2)

Recommended Tools and Supplies

1. Circular hole saw for installation of 3/4" and or 1" non-metallic conduit depending on installation requirements. Do not use spade bits for opening the conduit knockouts.
2. Application appropriate and approved 'rain-tight' or 'wet location' conduit hubs.
*** Note:** Every installation will have at least two (multi) conduits – one or more for low voltage input power and one or more for fiber optic cable.
3. Slotted screw driver, size #2
4. Phillips screw driver, size #2
5. Drill
6. #10 Screws appropriate for installing the product onto a wall (Installer supplied)
*** Note:** It is recommended to hand tighten all screws and screw fasteners inside the enclosure and front cover until snug and secure. Be sure not to overtighten as permanent damage may occur.

INSTALLATION INSTRUCTIONS

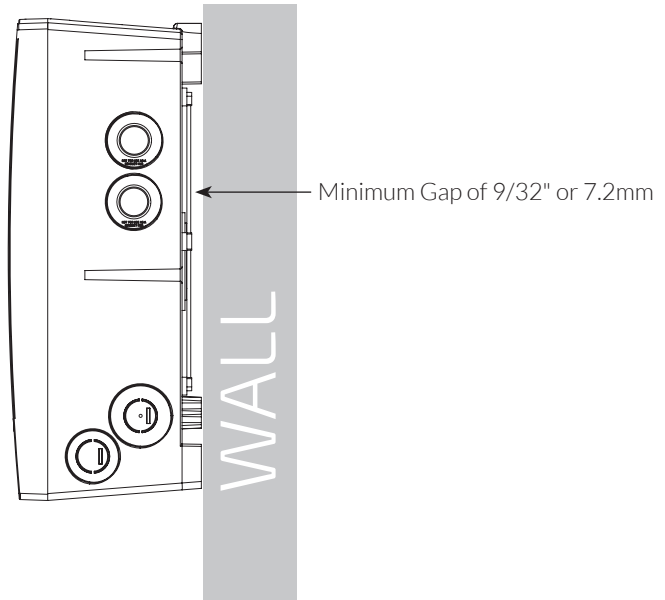
WARNING

- TURN OFF INCOMING POWER BEFORE SERVICING EQUIPMENT.
- ALL INSTALLATION AND MAINTENANCE WORK MUST BE PERFORMED BY A QUALIFIED ELECTRICIAN.
- VERIFY ALL ELECTRICAL RATINGS BEFORE INSTALLATION IS COMPLETE.
- FOLLOW PROPER WIRING PRACTICES IN ACCORDANCE WITH ALL NATIONAL AND LOCAL REGULATORY REQUIREMENTS.

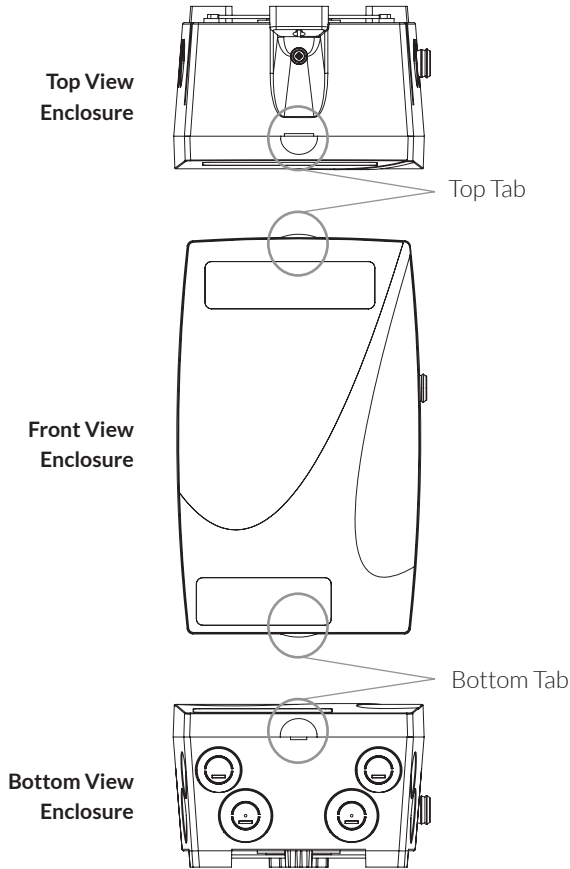
Enclosure mounting

1. Locate the CLSFJB / CLSFJB2 in an appropriate area that meets the following requirements:
 - a. Must be mounted on a flat vertical surface.
 - b. Must be a minimum of 4 inches above the ground level, pool deck, or higher than 8 inches above the maximum pool water level, whichever provides greatest elevation.
 - c. Must be positioned a minimum of 4 feet (1.2 m) from the inside wall of the pool unless separated from the pool by a solid fence, wall, or other permanent barrier.

For the unit to be adequately air cooled, allow a minimum gap of $9/32''$ (7.2mm) between the wall and the back surface of the unit. The stand-off mounting tabs will make contact with the wall.



- By hand open the enclosure by pulling the front cover off evenly by the top and bottom tabs. Do not angle or 'hinge' the cover when removing or damage may occur. If you cannot open the enclosure by hand, use a flat blade screwdriver to twist open the finger tabs of the cover at the top and bottom of the unit.

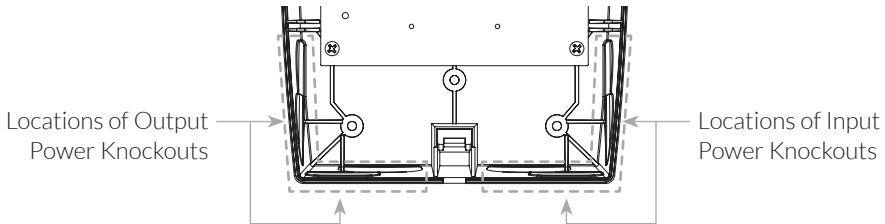


- Securely install a wall material appropriate #10 screw, supplied by the installer, into the location where the unit will be installed. The screw head must be 1 1/8" away from the wall to allow the unit to be mounted correctly.
- Place the mounting tab of the CLSFJB over the #10 screw and let it hang in place. Level the unit and mark the remaining 2 mounting screw locations on the wall. Use 2 more material appropriate #10 screws, supplied by the installer, to secure the unit to the wall through the mounting holes on the back of the unit. Once the lower two screws are secure, tighten the top screw to securely hold the upper portion of the enclosure in place.

Input / Low Voltage Supply Line

1. Bring the low voltage supply power conduit to one of the two, lower right or left side input power conduit knockout locations. On CLSFJB2 models, one or two conduits may be used for the low voltage luminaire input power depending on power source locations and if separated lighting controls are required. DO NOT use any of the bottom conduit connection locations for input power – these are reserved for the fiber conduit (output) locations.

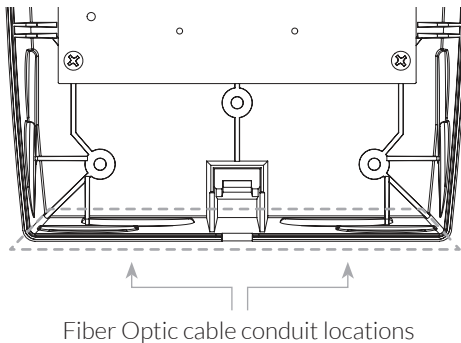
***Note:** The wiring of the 12VAC input and fiber cable/s are required to use separate conduits and must not share an individual conduit. No conduit should contain both 12VAC input power and fiber optic cables.



2. Using a hole saw, open the knockouts for the size of the conduit ($\frac{3}{4}$ " or 1") being installed.
3. Attach an approved 'rain-tight' or 'wet location' hub to the conduit. After the hub is attached to the conduit, attached the hub to the enclosure.

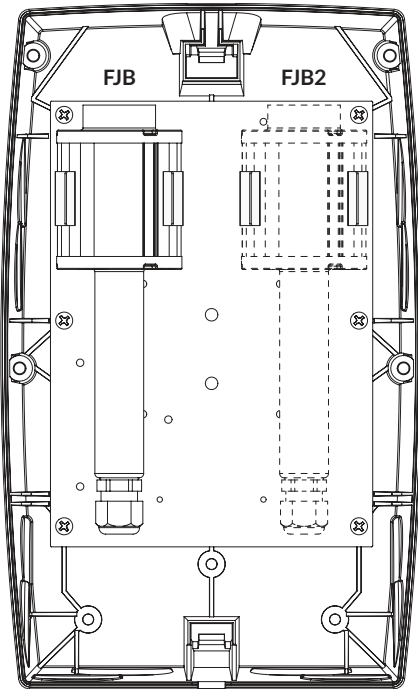
Fiber Optic Cable Conduit Connection

1. The enclosure provides four (4) possible Fiber Optic cable conduit locations, two (2) on the bottom left and two (2) on the bottom right portion of the enclosure.
2. Using a hole saw, open the knockout for the size of the conduit ($\frac{3}{4}$ " or 1") being installed.
3. Bring the Fiber Optic cable conduits to the open conduit locations.
4. Attach an approved 'Rain-tight' or 'wet location' hub to the conduit first, and then attach hub to the enclosure.

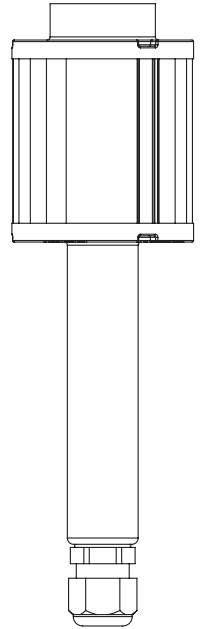


Final Steps

1. Pull 12VAC cable into input power conduit and connect to the appropriate power supply.
2. Pull in fiber optic cable from the water feature and insert port tip into the black compression fitting - tighten until firmly held in place. Do not overtighten as damage to the fiber optic cable may result.



3. In some cases there may be excess fiber optic cable. DO NOT CUT the cable, instead coil the excess in as large of a loop as possible and place in the open area of the enclosure. DO NOT KINK. If more space is required due to lots of excess fiber, it may be helpful to add a larger pull box in between the conduit and CLSFJB or CLSFJB2 to house the excess fiber.
4. Snap the fiber optic light source (CLS-2xx) into the metal bracket and adjust the position until both of the locating tabs on the ends of bracket capture the top and bottom of the CLS-2xx housing. Use cable tie (zip-tie) to close and tighten the open ends of the mounting bracket.



WARRANTY INFORMATION

For Lighting product warranty information and details, please visit our website:
www.srsmith.com/warranty

Questions?

Contact One of Our Dedicated Lighting Specialists. **1-800-824-4387** x4012 or x2282

