

# GS Encapsulation Installation Manual

## IP68 - DC Variant



## APPLICATION

The GS-EN luminaire is an industrial-grade LED product suitable for use in areas subject to extended or continuous submersion, requiring IP68 ingress protection. The GS Series is also certified for use on marine vessels inside, outside and in other severely wet saltwater environments. This product family is commonly exposed to moisture, dirt, corrosion, vibration, and rough usage. Models, including "EN—", are approved for submersion areas.

UL Listing Numbers: E480811

GS-DC luminaires are suitable for use in the following areas as defined by the National Electrical Code (NEC) and the Canadian Electrical Code (CEC):

Standards that apply to all models: UL 2108  
CSA C22.2 No. 250.0

Housing: Copper-free aluminum body with polycarbonate lens.

Mounting: (A) Adjustable: Four 1/4"-20 x 4" screws or bolts (not provided)  
(B) Carriage Bolt: Two 1/4"-20 x 1" bolts (integral to luminaire)  
Flat washers, lock washers & 1/4"-20 nuts (provided)

Input Voltage: 12: 11-16VDC | 24: 22-28VDC | 24H: 22-28VDC

Electrical Ratings: 12 Models (@ 10-16VDC): GS-1: 0.75A | GS-2: 1.5A | GS-3: 2.3A | GS-4: 3.0A  
24 Models (@ 22-28VDC): GS-1: 0.40A | GS-2: 0.75A | GS-3: 1.1A | GS-4: 1.5A  
24H Models (@ 22-28VDC): GS-1: 0.75A | GS-2: 1.5A | GS-3: 2.2A | GS-4: 2.9A

Connections: 10ft 18/3 SOOW standard.

Temperature Range: -40°C to +60°C

Ingress Protection: IP68 | Continuous immersion up to 25ft | Suitable for wet locations | Marine outside type (salt water)



### WARNING / ATTENTION

To avoid the risk of fire, explosion, or electric shock, this product should be installed, inspected, and maintained by a qualified electrician only, in accordance with all applicable electrical codes.

Éviter tout risque d'incendie, d'explosion ou d'électrocution, ce produit doit être installé, inspecté et entretenu par un électricien qualifié uniquement, conformément à tous codes électriques applicables.



### WARNING / ATTENTION

To reduce the risk of electric shock, disconnect the luminaire from the supply circuit before opening for installation and servicing. Keep tightly closed when in operation.

Pour réduire le risque de choc électrique, débranchez le luminaire du circuit d'alimentation avant l'ouverture pour l'installation et l'entretien. Gardez hermétiquement fermé pendant le fonctionnement.



### WARNING ATTENTION

Do not open, no serviceable parts.  
Ne pas ouvrir, pas de pièces réparables.

## INSTALLATION

### STEP 1:

Inspect shipping package and contents to ensure no damage has occurred during shipping.

### Adjustable Bracket Mount

#### STEP 2a:

Loosen each M4 pinch bolt (2x) slightly using a 3mm hex key to allow some free movement. This will allow for easier installation on uneven or other surfaces.

\*Be sure not to loosen the pinch bolts too far, as they will disengage.

#### STEP 2b:

Mount luminaire to desired location with four 1/4"-20 (4x) screws or bolts (not provided).

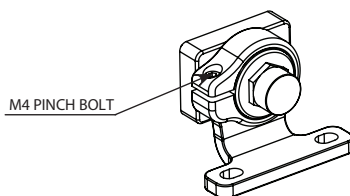
#### STEP 2c:

Adjust luminaire to desired angle and tighten M4 pinch bolts (2x) using a 3mm hex key.

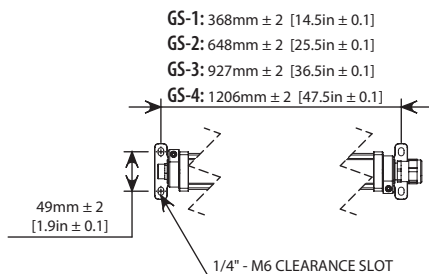
#### NOTE:

*If application requires periodic adjustment of aiming do not rotate more than 180° in either direction from installation point, doing so may put excessive strain on the electrical connections.*

Continue to Step 3.



### Mounting Dimensions:



## INSTALLATION (CONT.)

### Carriage Bolt Mount

#### STEP 2a:

Align both carriage bolts through holes in the desired mounting surface. Place the provided flat washer, lock washer and 1/4"-20 nut on the bolt and tighten luminaire to the surface.

#### STEP 3:

For general location installation:

Supply side of the cord must be terminated with a listed cord connector complying with the NEC / CEC requirements of the installation. The cord connector must be rated for use with suitable cable of types SOW, STOW, STOW, SEOW, SEOW having a diameter between 8.75mm/0.345" & 9.4mm/0.370". The listed cord connector must be installed in a listed box complying with the NEC / CEC location requirements of the installation. The cord connector and box must be rated to the environment of the installation.

#### STEP 4:



Black: Negative (-)  
 White: Positive (+)  
 Green: Ground

Connect the lead wires from the cord to the field supply wiring inside the outlet box. The field wiring terminations are to be made following acceptable practices as outlined by the NEC / CEC for either the specific ordinary or hazardous locations as dictated by the installation location.

#### STEP 5:

Energize luminaire.

