



# The EXC Series Installation Manual

## Class I Division 1 | Explosion Proof



### APPLICATION

Designed for heavy industrial and hazardous locations, the EXC luminaire is rated for indoor and outdoor use. With a protection level of IP66 / NEMA4X the versatile EXC offers a low-profile solution for surface and yoke mount applications in the permanently mounted LED fixture category.

Certified to:	UL 1598, UL 8750, UL 844; CSA C22.2 No. 250.0, CSA C22.2 No. 137;
Hazardous Location Certification:	Class I, Division 1, Groups CD, T5; Class II, Division 1, Groups EFG, T4A; Class III, Division 1; Class I, Zone 1, Group IIB; Class I, Zone 20, Group IIIC
Housing:	Copper-free Cast Aluminium with Tempered Glass Lens
Input Voltage:	Suffix - AC: 120-277 VAC   Suffix - DC: 22-28VDC
Rated Power:	Suffix - AC: 30W   Suffix - DC: 35W
Current (Typ):	Suffix - AC: 0.2A @ 120VAC   Suffix - DC: 1.1A @ 24VDC
Connections:	3 x 3/4" NPT Conduit Suffix - AC: Black: Line   White: Neutral/Line 2   Chassis: Ground Class 1 Wiring only.  Suffix - AC: Black: Line   White: Neutral   Chassis: Ground Suffix - DC: Black: Negative (-)   Red: Positive (+)   Chassis: Ground
Temperature Range:	-50°C to +58°C
Ingress Protection:	IP66   Suitable For Wet Locations (Luminaire enclosure only)

For connections use wire rated to a minimum of 90°C. Daisy-chain wiring must use #12AWG conductors and the total circuit load must not exceed 1200W.

The EXC does not contain any arcing, sparking, or hazardous temperature components, and no conduit seals are required when installing luminaire. Refer to NEC 501.15(A) and CEC 18-108 for details.

**WARNING**

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.

**WARNING**

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

**SURFACE MOUNT INSTALLATION**

*Refer to alternate instructions if using Yoke Mount*

**STEP 1.**

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

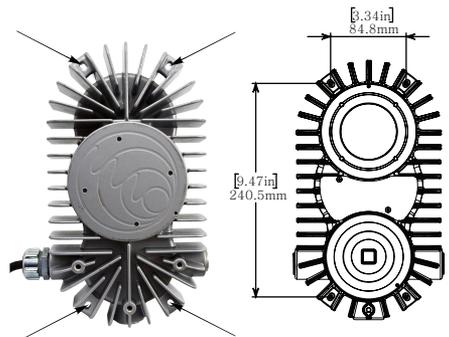
**STEP 2.**

Mount EXC to desired location using minimum 2x (two) #10 Bolts or Screws in opposing corner mounting tabs. It is recommended that all four fastening points be used for more secure mounting.

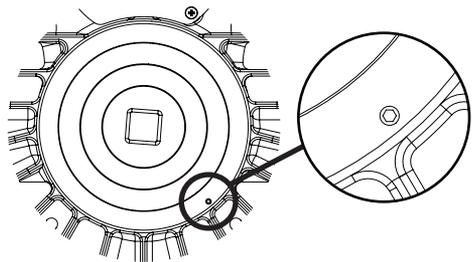
**STEP 3.**

Using a 2mm Allen socket key, loosen the M4 JB Lid Set Screw.

Step 2



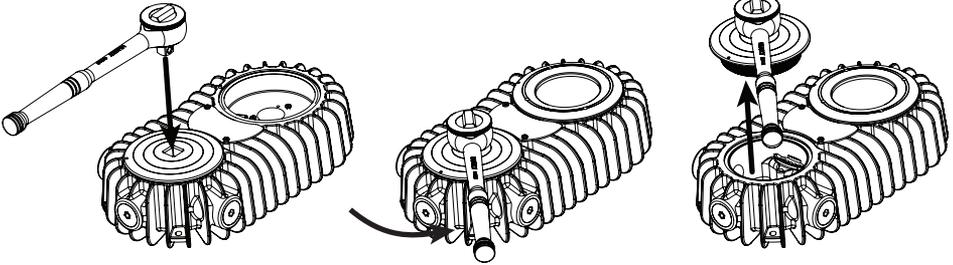
Step 3



## STEP 4.

Using a 1/2" Socket Wrench, remove the JB Lid to access the Junction Box of fixture.

### Step 4



## STEP 5.

Install suitable wiring system to the conduit opening per CEC/NEC requirements for the specific location of install.

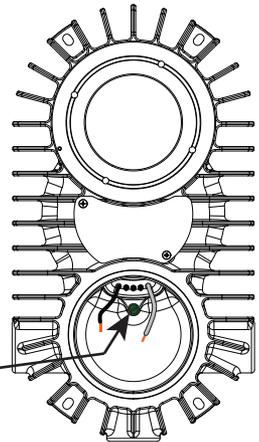
### STEP 6A.

100-277VAC input only: Make wiring connections from branch circuit conductors to factory provided Line (Black) and Neutral/Line 2 (White) wires. Connect grounding conductor using provided #10-32 grounding screw. Refer to NEC/CEC codes and follow all applicable local standards. All unused NPT entries must be plugged using the provided 3/4-14 NPT plugs.

### Step 5

### STEP 6B.

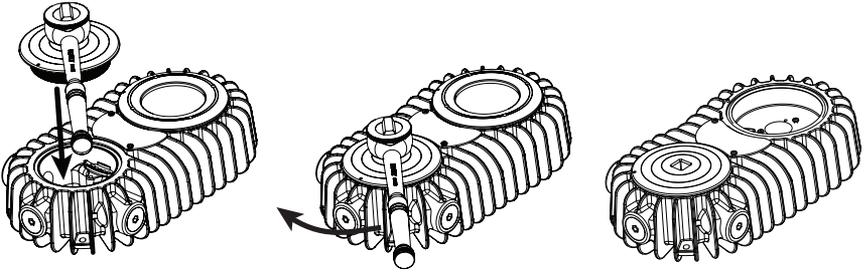
22-28VDC input only: Make wiring connections from low voltage DC supply to factory provided Positive (White) and Negative (Black) wires. Connect grounding conductor using provided #10-32 grounding screw. Refer to NEC/CEC codes and follow all applicable local standards. All unused NPT entries must be plugged using the provided 3/4-14 NPT plugs.



Connect Ground via provided #10-32 Green Grounding screw to Grounding Location.

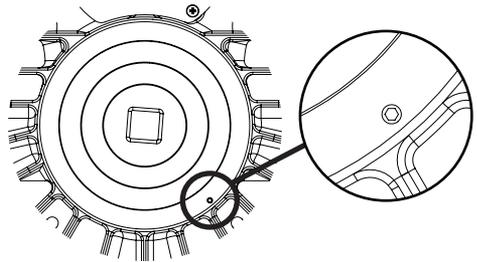
STEP 6.  
Close JB Lid with 1/2" Drive Socket Wrench.  
Tighten firmly until the lid has bottomed out on Body.  
Torque lid to 40 ft-lbs (54 Nm).

Step 6



STEP 7.  
Tighten M4 JB Lid Set Screw.  
Torque to 10 inch-pounds.

Step 7



STEP 9.  
Energize Fixture.

## EXC-YM – YOKE MOUNT INSTALLATION

This EXC-YM kit is intended for use with UL Listed EXC luminaire as marked on the luminaire nameplate. The EXC YM kit is intended for mounting to wall and ceiling surfaces.

EXC-YM	ITEM NO.	PART NAME	QTY.
	1	EXC YOKE MOUNT A	1
	2	EXC YOKE MOUNT B	1
	3	1/4-20 x 0.625in CARRIAGE BOLT	4
	4	1/4-20 HEX NUT	4
	5	M6 x 1 x 12mm SOCKET HEAD CAP SCREW	3
	6	M6 FLAT WASHER	3



### INSTALLATION STEPS

#### STEP 1.

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

#### STEP 2.

Mount the EXC luminaire to pre-assembled EXC Yoke Mount A using 3x M6 fasteners (Provided). Torque M6 fasteners to 40 in-lbs (4.5 N-m).

#### STEP 3.

Mount EXC Yoke Mount B to the wall or ceiling mounting surface using 4x 1/4" or M6 fasteners (not provided).

#### STEP 4.

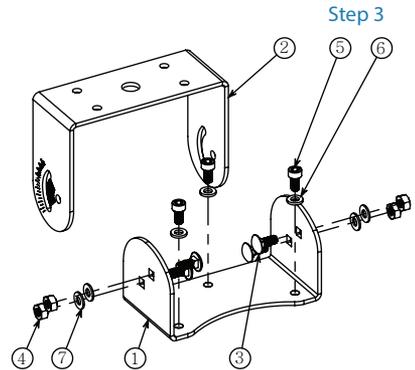
Loosen rotation lock nuts on the side of the EXC-YM assembly and aim luminaire. Long angle markings are in 10° increments. Torque rotation lock nuts to 48 in-lbs (5.4 N-m).

#### STEP 5.

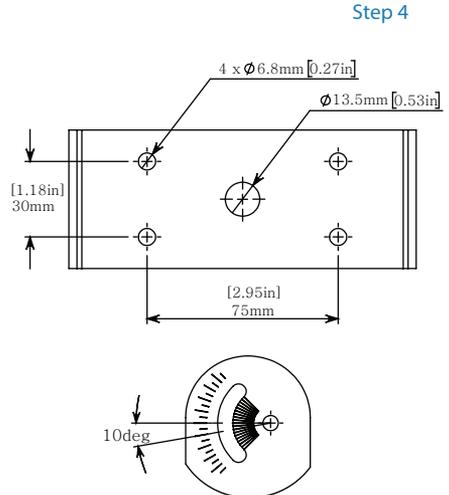
Install suitable wiring system to the conduit opening per CEC/NEC requirements for the specific location of install.

#### STEP 6.

Resume installation instructions provided with luminaire. (STEP 6 in EXC Installation Instructions provided with Luminaire)



Step 3



Step 4

