For Solid-Wall Construction:

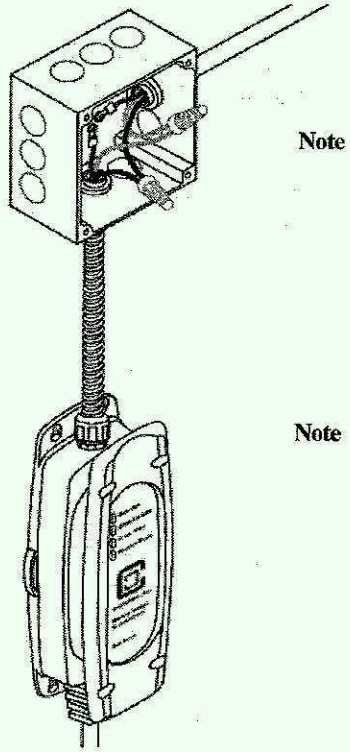
- To secure the unit in concrete, pre-drill appropriately sized holes and use multi-set or wedge anchor hardware at all four mounting points.
- To secure the unit in brick or stone, pre-drill appropriately sized holes

Machine screw size #10 hardware is recommended for mounting the LCS. Screw shafts of at least 2" are recommended. The LCS mounting holes are 3/16" in diameter, so ensure that the screw heads do not exceed this size. Place appropriately sized washers between the screw heads and the LCS enclosure mounting flanges.

Wiring Instructions (Hardwired LCS)

Route the LCS conduit to a nearby service panel or junction box. Use the included ¼" trade size watertight fitting to provide a moisture-resistant seal with the service panel or junction box. If necessary, drill a 1/2" diameter hole to accomodate the liquid-tight fitting or use the included 1/4" NPT to 1/2" NPT thread reducer kit.

Figure 6. Wiring the LCS in a junction box



Note Before connecting the LCS service conductors, please carefully read the section of this manual titled Service Connections, on page 5. If you are unsure of the type of power provided at the service panel, please consult with your local utility or call your Service Representative for assistance.

Note The three LCS service conductors use stranded 12AWG, 75°C copper wire. The insulation of each conductor is color coded for standard 240VAC installation:

Green:	Ground	
Black:	Line 1	(120VAC to Ground)
Red:	Line 2	(120VAC to Ground)

SPECIFICATIONS

Line Input Power

Voltage & Wiring

240V AC single-phase - L1, L2, and Safety Ground.

208V AC 3-phase wye-connected - Any 2 phases and Safety Ground.

240V AC 3-phase, delta-connected. With center-tap on one leg, must use only the two phases on either side of the center-tap. The two phases must both measure 120V AC to ground. **Do not use the third leg (208V "Stinger").**

Service Conductors: L1, L2 and Ground use 12AWG, 75°C copper wire

Voltage Range: 185V AC to 264V AC

Frequency: 60 Hz

Current

LCS Model	Circuit Breaker	Maximum Current
LCS-10	10A	08A
LCS-15	15A	12A
LCS-20	20A	16A
LCS-25	25A	20A
LCS-25P	30A	20A

Note that the maximum current for the vehicle is set by the duty cycle of the Pilot waveform.

Plugs: Attached NEMA L6-30P and NEMA 14-30P plugs are available for the LCS-25P.

Output Power: Variable depending upon the LCS model and vehicle demand. At 240V AC, the LCS-15 outputs approximately 3KW, the LCS-20 4KW, and the LCS-25 5KW.

Dimensions Dimensions are for the enclosure only

Height: 280 mm (11 in)

Width: 100 mm (4 in)

Depth: 80 mm (3 in)

Weight: 2.7 kg (6 lbs) with SAE-J1772™ connector and 25' length of cable

Environment

Operating Temperature: -30°C (-22°F) to +50°C (+122°F)

Enclosure Rating: NEMA 4X - watertight

Agency Approvals: ETL Listed (LCS), UL Listed (LCS-P), FCC Part 15 Class B