

Installation Instructions

EPC Series Power Distribution Module

Part Number: LFLX0006Z-01



Description

The EPC is an internally bussed, connectorized, sealed power distribution module, suitable for mounting in rugged commercial vehicle applications. The EPC is a product that has dense concentration of high power circuits and accepts plug devices like automotive fuses, diodes and relays to protect and control complex electrical systems. An internally mounted Printed Circuit Board (PCB) allows bussed connections to a large number of devices.

Installation

Assemble the PDM and mount to a surface following the below sequence:

1. Fill the available fuse and relay spots to match the the application needs. Check the locations on the schematics for the maximum fuse rating for each space and do not exceed the maximum rated fuse values.
2. Use the mounting hole pattern on the mounting surface and mark the mounting hole pattern. Drill the holes so they are sized for M6 bolts. Place the EPC over the pattern and bolt it in place. Torque down the mounting screws to 6-8Nm (4.5-5.9 ft-lb)
3. The harnesses should be made to match the terminal map on the schematic. The connectors should now be attached. Each has a unique key that should prevent misassembly. Make certain that the connectors are fully inserted and the secondary lock is fully engaged. If the secondary lock will not fully engage, the connector is not fully connected. Be sure that the output cables are routed so they have sufficient bend radius and are not at risk of being damaged or pinched. Lastly, make sure that all cables are strain relieved by being supported within 18" of the battery.

Step by step images shown in Figure 2 on page 2.

Specifications Overview

| | |
|------------------------------------|--|
| Max Load: | 160A |
| Working Voltage: | 12/24V DC |
| Fuse Capacity: | Tailor to application - Up to 27 MINI Style Fuses |
| Fuse Rating Range: | 5 to 30 A |
| Relay Capacity: | Tailor to application - Up to 3 Form C 280 and 6 Form A 280 Relays |
| Operating Temp: | -40° C to 85° C |
| Ingress Protection: | IP67 / IP69K |
| Mounting Bolt Torque: | 6 - 8 Nm |
| Mating Terminals and Seals: | TYCO MCP 2.8mm & 1.5mm |

| Connector | Location |
|------------------|----------|
| TYCO 1-1670901-1 | J1 |
| TYCO 2-1670901-1 | J2 |
| TYCO 3-1563759-1 | J3 |
| TYCO 1-1563759-1 | J4 |

| | |
|------------------------|---|
| Wire Sizes: | 0.5 mm ² – 2.5 mm ² |
| Box Dimensions: | 179x155x69 mm |
| Accessories: | Fuse puller, spare fuses, tether |

Ordering Information

| PART NUMBERS | DESCRIPTION |
|--------------|---|
| LFLX0006Z-01 | Connectorized Power Distribution Module with IP67/IP69K |

Figure 1 - Finished Covered Assembly

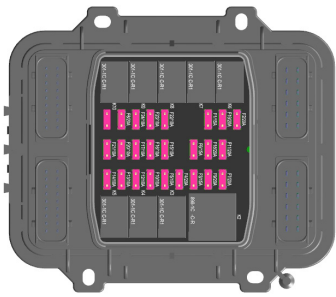
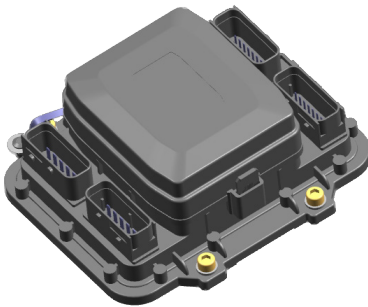
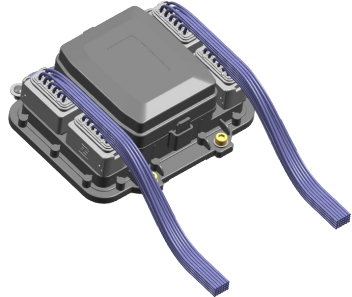


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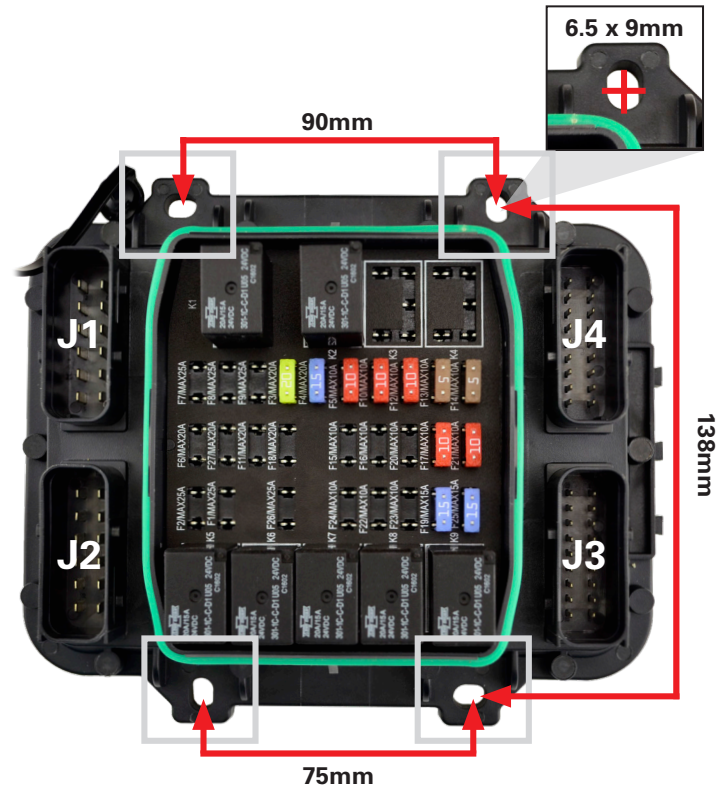
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Figure 2 - Step by Step Installation

| | | |
|--------|---------|--|
| STEP 1 | IMAGE |  |
| | DETAILS | Fill the available fuse and relay spots to match the application needs |
| STEP 2 | IMAGE |  |
| | DETAILS | Mark the mounting hole pattern and drill the holes to fit M6 bolts. Place the EPC over the pattern and bolt it in place. Torque down the mounting screws to 6-8Nm (4.5-5.9 ft-lb) |
| STEP 3 | IMAGE |  |
| | DETAILS | The connectors should be attached. Connectors should be fully inserted and the secondary lock is fully engaged. Be sure that the output cables are routed so they have sufficient bend radius and are not at risk of being damaged or pinched. Lastly, make sure that all cables are strain relieved by being supported within 18" of the battery. |

Mounting Pattern Diagram



| FUSE LOCATION | MAX FUSE VALUE | FUSE LOCATION | MAX FUSE VALUE |
|---------------|----------------|---------------|----------------|
| F1 | 25A | F15 | 10A |
| F2 | 25A | F16 | 10A |
| F3 | 20A | F17 | 10A |
| F4 | 20A | F18 | 20A |
| F5 | 10A | F19 | 15A |
| F6 | 20A | F20 | 10A |
| F7 | 25A | F21 | 10A |
| F8 | 25A | F22 | 10A |
| F9 | 25A | F23 | 10A |
| F10 | 10A | F24 | 10A |
| F11 | 20A | F25 | 15A |
| F12 | 10A | F26 | 25A |
| F13 | 10A | F27 | 20A |
| F14 | 10A | | |

Specifications, descriptions and illustrative material in this literature are as accurate as known at the time of publication, but are subject to changes without notice. Visit littelfuse.com for the most up-to-date technical information.