

FLEC™ SERIES FLEXIBLE ELECTRICAL CENTER

Configurable Power Distribution Module



Description

The Flexible Electrical Center (FLEC™) is a configurable power distribution module for the commercial vehicle market. It accommodates circuit protection components in a compact, sealed footprint. Your custom electrical schematic can be programmed into the FLEC™ to create a simple “plug-and-play” system. The PCB accepts active and passive devices.

Each program is reviewed by Littelfuse for proper ratings, thermal loading, and application. The FLEC™ mates to an industry standard connection system to provide a robust solution for heavy duty environments.

Features and Benefits

- High component density in the FLEC maximizes available space and limits the number of additional units required.
- The versatile nature of the FLEC unit means it can accept a large number of component types. MINI, ATO, MAXI, JCASE, MCASE, and ISO components are all accepted.
- Rugged and sealed, the unit boasts an IP67 rating which allows it to be mounted in locations susceptible to moisture and dirt without any adverse effects
- Input stud caps prevent accidental short circuit while performing maintenance to and around the box
- Internal PCB allows for custom circuit configurations, including designs requiring electronics such as those used in CAN J1939 and LIN systems.
- Decreases assembly efforts at factory due to connectorized interfaces, instead of hard-wired technologies
- Reduced risk of wiring faults: The FLEC uses highly reliable printed circuit board technologies – each FLEC is 100% electrical tested

Specifications Overview

Voltage Ratings:	12 or 24V DC
Max Load:	300A
Max Fuse Rating:	30A
Fuse Capacity:	28 MINI style
Relay Capacity:	18 ISO style
Operating Temp:	-40 to +85°C
Vibration Resistance:	ISO 16750-3 TEST II, 32 HOURS
Shock Resistance:	ISO 16750-3, SECTION 4.2.2
Ingress Protection:	IP67
Output Connectors:	Delphi GT Series
Input Studs:	M8
Dimensions:	180x197x75 mm
Accessories:	Input stud caps, cover tether, fuse puller

Applications

- Primary power distribution

Web Resources

Download technical resources at:
littelfuse.com/flec

Ordering Information

MODEL	DESCRIPTION	MAX LOAD	MAX FUSE RATING	FUSE CAPACITY	RELAY CAPACITY	IP RATING	OUTPUT CONNECTORS	CAN/LIN AVAILABLE?
FLEC3000Z-0	Pre-Populated FLEC	300A	30A	28 (6 -15A MINI Fuse) 28 (22 - 30A MINI Fuse)	18 (ISO 280 Micro Relay with Resistor) NO Amp: 35A NC Amp: 20A	IP67	Delphi GT	No
FLEC3000Z-0U	Empty FLEC	300A	30A	28 (Empty)	18 (Empty)	IP67	Delphi GT	No
—	Customized FLEC	Designed to customer specifications. Contact your local Littelfuse Commercial Vehicle representative.						

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Specifications

Voltage Ratings	12 or 24V DC
Max Fuse Rating	30A
Max Load	300A
Fuse Capacity	28 MINI style
Relay Capacity	18 ISO style
Terminal Styles	MINI®, PCB, JCASE®, MCASE™ Note: FLEC can be custom designed. Contact Littelfuse for details.
Temperature Range	-40 °C to +85 °C
Ingress Protection Rating	IP67
Vibration Resistance	ISO 16750-3 Test II, 32 hours
Shock Resistance	ISO 16750-3, Section 4.2.2
Dimensions	180x197x75 mm
Labels	Consult Littelfuse for label options
Input Studs	M8
Output Connectors	(1) 8-way sealed Delphi 280 series (1) 14-way sealed Delphi 280 series (1) 16-way sealed Delphi 280 series (1) 10-way sealed Delphi 150 series (1) 12-way sealed Delphi 150 series (1) 16-way sealed Delphi 150 series
Accessories	Input stud caps, cover tether, fuse puller

Dimensions in millimeters



