

SERIES 31000/32000 VEHICLE ELECTRICAL CENTERS

Cooper Bussmann's Single Vehicle Electrical Center (VEC) and Dual Vehicle Electrical Center (DVEC) are widely used Transportation Industry power distribution modules. The VEC & DVEC use patented programmable 3D matrix technologies that can be easily modified to accommodate changes to an electrical system. These can be customized for each specific electrical system, but require no tooling for implementation.

The VEC & DVEC accept automotive components including fuses, relays, circuit breakers, diodes, and other devices that have 2.8mm wide terminals on 8.1mm center-line spacing. (See page 5 for additional available components.) The compact size of the VEC (about 4"x4") and larger size of the DVEC (approximately 8"x4") provide for high component density. VEC's provide either 8.0mm bladed inputs or M8/M6 stud inputs. The VEC can accommodate up to 2 input connectors - 4 bladed inputs or 2 studs - and 4 output connectors. The DVEC can accommodate up to twice this amount. (Some designs may limit the number of connectors available for use.)

SPECIFICATIONS

Input Terminal Rating: 8.0mm blade terminals (60A max per terminal); M8/M6 input studs (100A max per terminal). 200A max total for VEC, 400A max total for DVEC.

Output Terminal Rating: 2.8mm blade terminals (30A max per terminal).

Temperature Rating: -40°F (-40°C) to 260°F (125°C).

Materials: Thermoplastic housing and connectors; Tin-plated copper internal grid.

Termination: Delphi Packard Metri-Pack® 280 Series terminals (sealed/unsealed & tanged/tangless) or AMP® terminals.* Delphi Packard 280 Series cavity plugs are installed where wires are not used.* Accepts #10-22 AWG wire sizes.

Mounting Torque Rating: 24in-lb (2.7Nm) max.

Mounting Orientation: Unit cannot be installed upside-down. Consult factory for proper mounting orientations.

Ingress Protection Rating: IP55.

OPTIONS

Cover: Vented (VEC), Solid with gasket (VEC/DVEC), Solid without gasket (DVEC), or none provided.

Cover Label: Inside cover, outside cover (VEC only), or none provided.

Input Style: 8.0mm blade terminals or studs (M8/M6).

Mounting: External feet with mounting holes (VEC/DVEC) or internal mounting holes (VEC only).

Components: Fuse, breaker, relay, etc. installation to be specified by customer.

Severe Service: Added environmental protection available. Consult factory.

Fuse/breaker Extraction Tool: See page 27.

Each design is customer specific. Consult your sales rep today for your application.

*Electrical terminals, cable seals & cavity plugs are NOT supplied by Cooper Bussmann.

APPLICATIONS

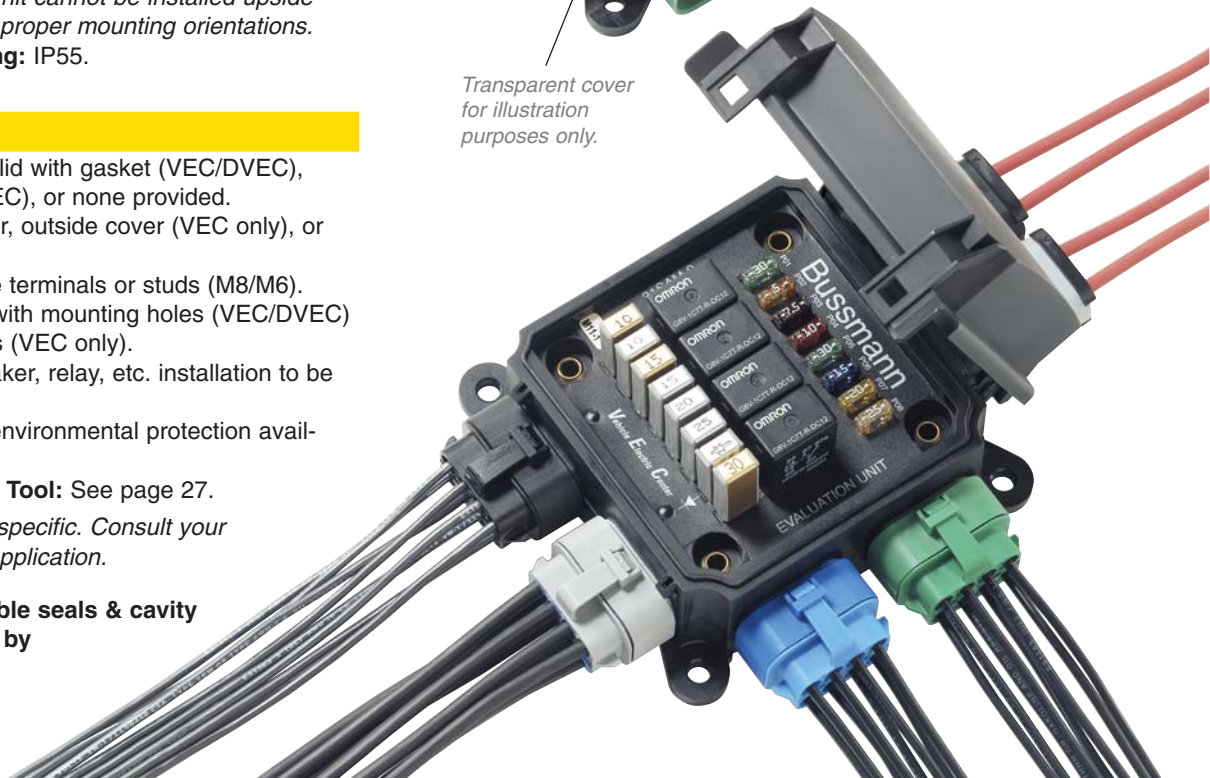
The VEC/DVEC is ideal for distributed main power as well as auxiliary "add-on" applications. Current VEC/DVEC applications include Class 3-8 trucks, buses, chassis and RV, Con-Ag equipment, marine specialty vehicles, and automotive power distribution systems.

BENEFITS

The customizable designs of the VEC/DVEC enable them to incorporate many different devices and multiple design variations. Splices in the harness can also be eliminated by internally programming them into the grid matrix. The inputs (connector or stud) and outputs (connector) of the VEC/DVEC are color-coded and keyed, and provide quick installation. This makes the module easy to service. The largest benefit of these modules are the reduced lead times and **zero** tooling cost.

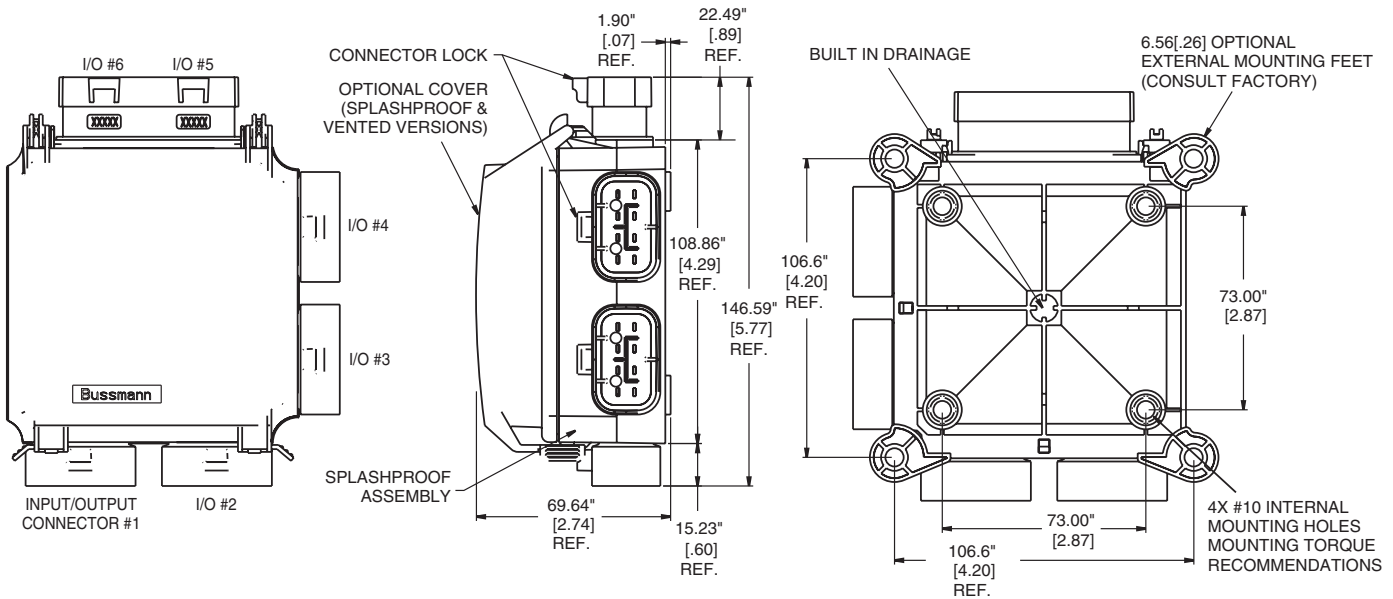


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DIMENSIONS 31000 SERIES VEC (Dims. shown are for reference only. Consult factory for latest prints)



DIMENSIONS 32000 SERIES DVEC (Dims. shown are for reference only. Consult factory for latest prints)

