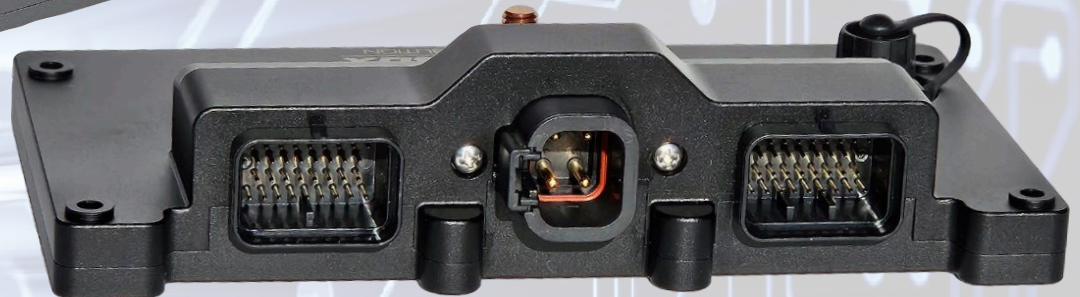# BLACK BOX
POWER DISTRIBUTION

The **P32** Power Distribution Module replaces traditional relays, fuses and circuit breakers. It simplifies wiring, decreases installation time and increases reliability.

Compatible with Grayhill CANopen keypads

Features:

- 32 high side output channels plus 2 Auxiliary low side outputs.
- 4 x 27 Amp high frequency PWM. 2 x 22 Amp high frequency PWM. 24 x 8 Amp. 1 x 3 Amp PWM. 1 x 3 Amp. 2 x low current Switch to ground PWM Auxiliary Outputs.
- The 2 x 22 Amp outputs can be used together in bridge mode for forward/reverse motor control.
- The two Auxiliary Outputs are PWM cpable and ideal for motors, fans and pumps that require a speed control signal. Also suitable for indicator lamps and interior lights.
- 25 wired switch inputs. Including 3 that can be used as temperature sensor inputs.
- Some outputs can be combined for higher output current.
- 140 Amp maximum total current recommended.
- Machined aluminium case. Main body dimensions are 212 x 116 x 49 mm.
- Easy to use and understand software.
- Programmable output current, fuse reset time and allowable fuse reset count.
- Compatible with 24 volt systems.
- Reverse battery protected and transient over voltage protected.
- Programmable functions including True, False, AND, OR, Flash, Pulse Train, PWM ramp, Toggle and Set/Reset to control such things as Turning Indicators, Hazard and Emergency lights. Counters and Keypad indicator controls can also be created and configured.
- Two separate CAN buses that can be configured to read and send data from ECU (engine control unit) dashboards, keypads and other PDMs. With internal switchable CAN bus terminator resistor.
- Wiper motor control with brake.
- Software displays live values of output currents, battery voltage, switch status, function status, outputs/fuse status, counter values, CAN input data and other information.
- Cable and USB connectors are sealed. Cable connectors have gold plated terminals.
- Field upgradable to keep up to date with the latest software and firmware.
- 1 year warranty.

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