

BLACK BOX

ENGINE MANAGEMENT

The **P12** Power Control Module replaces traditional relays, fuses and circuit breakers. It simplifies wiring, decreases installation time and increases reliability.

Features:

- 12 * 15 Amp continuous outputs.
- Outputs can be combined for higher output current.
- 100 Amp maximum total current recommended.
- Easy to use and understand software.
- Programmable output current and fuse reset time and count.
- 10 Switch Inputs + Master Switch Input.
- Switch inputs can be connected to power, ground or floating (3 state, center-off type switches).
- Fault indicator Output can drive a lamp or LED to indicate output short circuit, open circuit or low battery voltage.
- Fault indicator output can alternatively be used as an additional low current output.
- On board data logging to record battery voltage, total current, individual output current, module temperature and input switch voltage.
- Compatible with 24volt systems.
- Reverses battery protected and transient overvoltage protected.
- Programmable functions including True, False, AND, OR, Flash, Pulse Train, Toggle, Set/Reset to control such things as Turning Indicators, Hazard and Emergency lights.
- Ideal for transmission brake staging or 'bump' control.
- Software displays live values of output currents, battery voltage, switch status, function status and outputs/fuse status.
- Compact Size. Main body: 123mm * 112mm * 33mm.
- Main and USB connectors are sealed with gold plated terminals.
- Field upgradable to keep up to date with the latest software and firmware.
- 1 year warranty.

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Output Settings

Output 4 (Pin 4)

Output Name: Fuel Pump

Control: Switch: ECU Fuel Pump

Fuse Current: 12.0 (1.0 to 15.0 Amps)

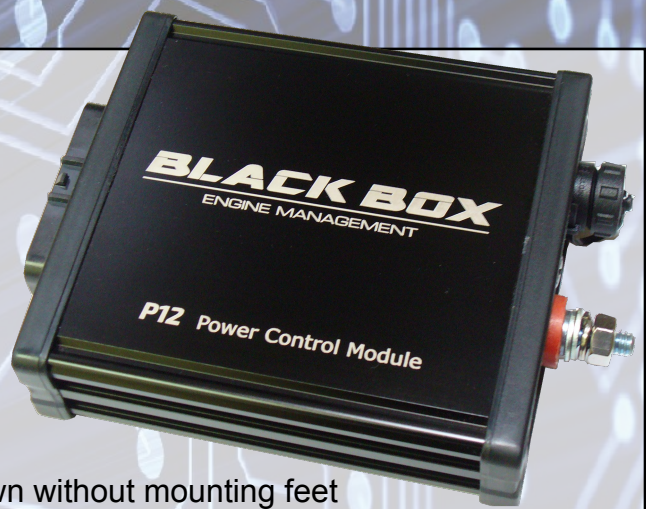
Fuse Reset Delay: 3.00 (0.0 to 600.0 Seconds) Only used if Fuse Resets Allowed > 0

Fuse Resets Allowed: 5 (0 to 100) Unlimited Fuse Resets Allowed

Enable Open Circuit Detect

Outputs that are connected in parallel must have the same fuse settings and Control source.
Open Circuit Detect should only be enabled for output devices with low side directly connected to ground/earth. For example, do not enable Open Circuit Detect for Fuel Injectors, Ignition coils and devices that have the low side switched to ground by an ECU, relay or switch.

OK Cancel



Shown without mounting feet

Black Box PCM

File View Configuration On Board Datalog Help

Update Module: Module up to date

Switch Inputs

Switch Name	Switch Number	Active State	Activate Del...	De-Activate Delay (sec)	State
Indicator Left	1 (Pin 16)	High	0.10	0.10	Active
Indicator Right	1 (Pin 16)	Low	0.10	0.10	Not Active
Hazard	3 (Pin 18)	High	0.10	0.10	Not Active
ECU Fuel Pump	4 (Pin 19)	Low	0.10	0.10	Not Active
ECU Thermofan	7 (Pin 22)	Low	0.10	0.10	Active

Outputs

Output	Name	Control	Fuse Curren...	Fuse Reset Delay (S...	Fuse Resets Allo...	Status	Fuse Reset ...
1 (Pin 14)	Left Indicators	Function: Left Light	5.0	3.00	0	Off - Fuse Tripset	0
2 (Pin 1)	Right Indicators	Function: Right Light	5.0	3.00	0	Off	0
3 (Pin 2)	ECU	On	5.0	1.00	Unlimited	On - Open Circuit	0
4 (Pin 4)	Fuel Pump	Switch: ECU Fuel Pump	15.0	1.00	5	Off	0
5 (Pin 5)	Thermofan P1	Switch: ECU Thermofan	15.0	1.00	1	On	0
6 (Pin 6)	Thermofan P2	Switch: ECU Thermofan	15.0	3.00	1	On	0
7 (Pin 8)	Out 7	Off	5.0	3.00	1	Off	0
8 (Pin 9)	Out 8	Off	5.0	3.00	1	Off	0
9 (Pin 10)	Out 9	Off	17.0	3.00	0	Off	0
10 (Pin 12)	Out 10	Off	17.0	3.00	0	Off	0
11 (Pin 13)	Out 11	Off	17.0	3.00	0	Off	0
12 (Pin 26)	Out 12	Off	1.0	2.00	3	Off	0

Module Data

Battery (volts)	11.83
Total Current (amps)	26.6
Module Temp(°C)	31.7

Outputs

Output 1 (amps)	0.0
Output 2 (amps)	0.0
Output 3 (amps)	0.0
Output 4 (amps)	0.0
Output 5 (amps)	13.3
Output 6 (amps)	13.3
Output 7 (amps)	0.0
Output 8 (amps)	0.0
Output 9 (amps)	0.0
Output 10 (amps)	0.0
Output 11 (amps)	0.0
Output 12 (amps)	0.0

Switch Inputs

Master Switch (volts)	5.0
Switch 1 (volts)	5.0
Switch 2 (volts)	5.0
Switch 3 (volts)	3.5
Switch 4 (volts)	5.0
Switch 5 (volts)	3.5
Switch 6 (volts)	0.0
Switch 7 (volts)	0.0
Switch 8 (volts)	3.5
Switch 9 (volts)	0.0
Switch 10 (volts)	0.0

Functions

Function Name	Control Logic	State
Flasher Enable	(Indicator Left = True) OR (Indicator Right = True) OR (Hazard = True)	Active
Left Light	((Flasher = True) AND (Indicator Left = True) Or (Hazard = True))	Active
Right Light	((Flasher = True) AND (Indicator Right = True) Or (Hazard = True))	Not Active
Flasher	(Flash if Flasher Enable = True)	Active

ONLINE Serial: 61456348 OBD Recording Master Switch Battery: 11.8 V Total Current: 26.6 A Module Temp: 31.7 °C

