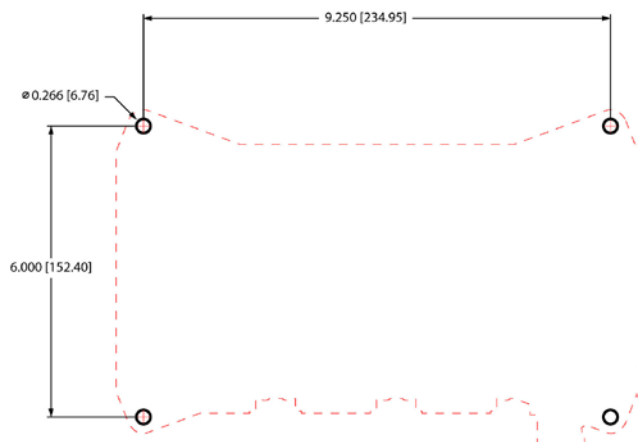


High Current PDM (8 outputs / 8 inputs) OEM Quick Manual

INSTALLATION

Mount the HC-PDM (p/n 610-00046) with screws and nuts. The dimensions in the detail below are in inches [millimeters].



WIRING

The HC-PDM has three (3) 12-pin Deutsch connectors and one (1) Cannon high current power input connector.



WARNING!

Ensure output current is limited to 100 Amps per connector.

Black connector

Mating connector: Deutsch DTP06-4S or DTP06-4S-E004
Mating sockets: Deutsch 0462-203-12141
Recommended wire gage: 10-12 AWG
Wedge lock: WP4S

PIN	CIRCUIT	DESCRIPTION
1	OUTPUT 0	(OUTPUT) – Positive polarity (30 Amps)
2	OUTPUT 1	(OUTPUT) – Positive polarity (30 Amps)
3	OUTPUT 2	(OUTPUT) – Positive polarity (30 Amps)
4	OUTPUT 3	(OUTPUT) – Positive polarity (30 Amps)

WARNING!

Ensure output current is limited to 100 Amps per connector.

Black connector

Mating connector: Deutsch DTP06-4S or DTP06-4S-E004
Mating sockets: Deutsch 0462-203-12141
Recommended wire gage: 10-12 AWG
Wedge lock: WP4S

PIN	CIRCUIT	DESCRIPTION
1	OUTPUT 4	(OUTPUT) – Positive polarity (30 Amps)
2	OUTPUT 5	(OUTPUT) – Positive polarity (30 Amps)
3	OUTPUT 6	(OUTPUT) – Positive polarity (30 Amps)
4	OUTPUT 7	(OUTPUT) – Positive polarity (30 Amps)

Gray connector

Mating connector: Deutsch DT06-12SA GRAY
Mating sockets: Deutsch 0462-201-16141
Gold mating sockets: Deutsch 0462-201-1631
Recommended wire gage: 16-20 AWG
Wedge lock: W12S

PIN	CIRCUIT	DESCRIPTION
1	INPUT 0	(INPUT) – Positive/Ground polarity (configurable)
2	CAN HIGH	(DATA) – SAE J1939 CAN 2.0B, 250Kbits/s *
3	CAN SHIELD	(DATA) – SAE J1939 CAN 2.0B, 250Kbits/s *
4	INPUT 2	(INPUT) – Positive/Ground polarity (configurable)
5	INPUT 4	(INPUT) – Positive/Ground polarity (configurable)
6	INPUT 6	(INPUT) – Positive/Ground polarity (configurable)
7	INPUT 7	(INPUT) – Positive/Ground polarity (configurable)
8	INPUT 5	(INPUT) – Positive/Ground polarity (configurable)
9	INPUT 3	(INPUT) – Positive/Ground polarity (configurable)
10	INPUT 1	(INPUT) – Positive/Ground polarity (configurable)
11	CAN LOW	(DATA) – SAE J1939 CAN 2.0B, 250Kbits/s *
12	SYS GROUND	(INPUT) – battery ground

WARNING!

The output power feed line should be fused to limit current to 200 Amps.

High current power feed connector

Mating connector: Cannon 121583-0013
Mating socket: Cannon 031-8521-020 (2 AWG)
Cannon 031-8521-010 (4 AWG)
Hexagonal nut: Cannon 217-8516-010
Cable seal: Cannon 351-8697-001
0.409 in – 0.472 in [10.4mm – 12.0mm]
2 AWG

For more information -
Cannon website: <http://www.ittcannon.com>

PIN	CIRCUIT	DESCRIPTION
1	OUTPUT PWR	(INPUT) – battery voltage (+9VDC...+32VDC)

VIEWING THE ADDRESS

The HC-PDM's address is shown during normal operation on the 7-segment LED display.

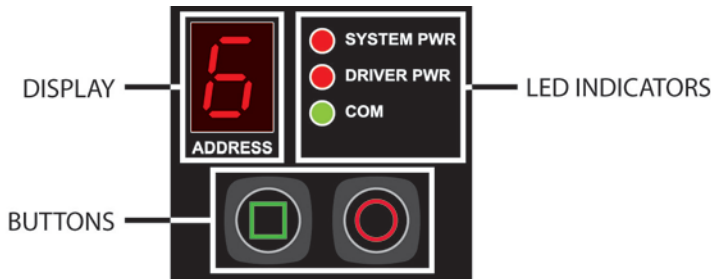


The display shows the address with a single digit. Addresses that would require two digits (10, 11, 12, 13, 14, and 15) are indicated with a letter (A, b, C, d, E, and F).

Display	Address	Display	Address	Display	Address
0	0	6	6	C	12
1	1	7	7	d	13
2	2	8	8	E	14
3	3	9	9	F	15
4	4	A	10		
5	5	b	11		

ENTERING PASSWORDS

Use the green **SQUARE** and red **CIRCLE** buttons on the HD-PDM to enter passwords. Each button press will show either a **1** or a **0** on the display to indicate the button pressed: **1** for the green **SQUARE** button and **0** for the red **CIRCLE** button. Each password button press must occur within 4 seconds of the last button press otherwise the attempted password is cleared.



SET THE ADDRESS

The HC-PDM's address is set by entering a password consisting of 8 button presses. The first 4 button presses are circle, circle, square, square (○ ○ □ □). The last 4 button presses depend on the desired address. The default address is 0.

ROOT PASSWORD				ADDRESS PASSWORD				
○	○	□	□	○	○	○	○	0
				○	○	○	□	1
				○	○	□	○	2
				○	○	□	□	3
				○	□	○	○	4
				○	□	○	□	5
				○	□	□	○	6
				○	□	□	□	7
				□	○	○	○	8
				□	○	○	□	9
				□	○	□	○	10
				□	○	□	□	11
				□	□	○	○	12
				□	□	○	□	13
				□	□	□	○	14
				□	□	□	□	15

SET THE INPUT POLARITY

The HC-PDM's 8 physical inputs can be configured for positive or ground input polarity by entering a password consisting of 12 button presses. The first 4 button presses are circle, circle, circle, square (○ ○ ○ □). The last 8 button presses depend on the desired input polarities: □ = positive, ○ = ground. The default configuration is positive polarity for all inputs.

ROOT PASSWORD				INPUT POLARITY							
				7	6	5	4	3	2	1	0
○	○	○	□								

□ = positive, ○ = ground

SET THE DEVICE TYPE

The HC-PDM's ES-Key device type may be changed from the default Power Distribution Module (PDM, device type 1) to an Input Output Module (IOM, device type 4) by entering a password.

ROOT PASSWORD				IOM DEVICE TYPE			
○	□	○	○	○	□	○	○

ROOT PASSWORD				PDM DEVICE TYPE			
○	□	○	○	○	○	○	□

For detailed operation and troubleshooting consult the full manual (p/n FSG-MNL-00164) available from the Class 1

High Current PDM OEM Quick Manual
P/N FSG-MNL-00165

REV A

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