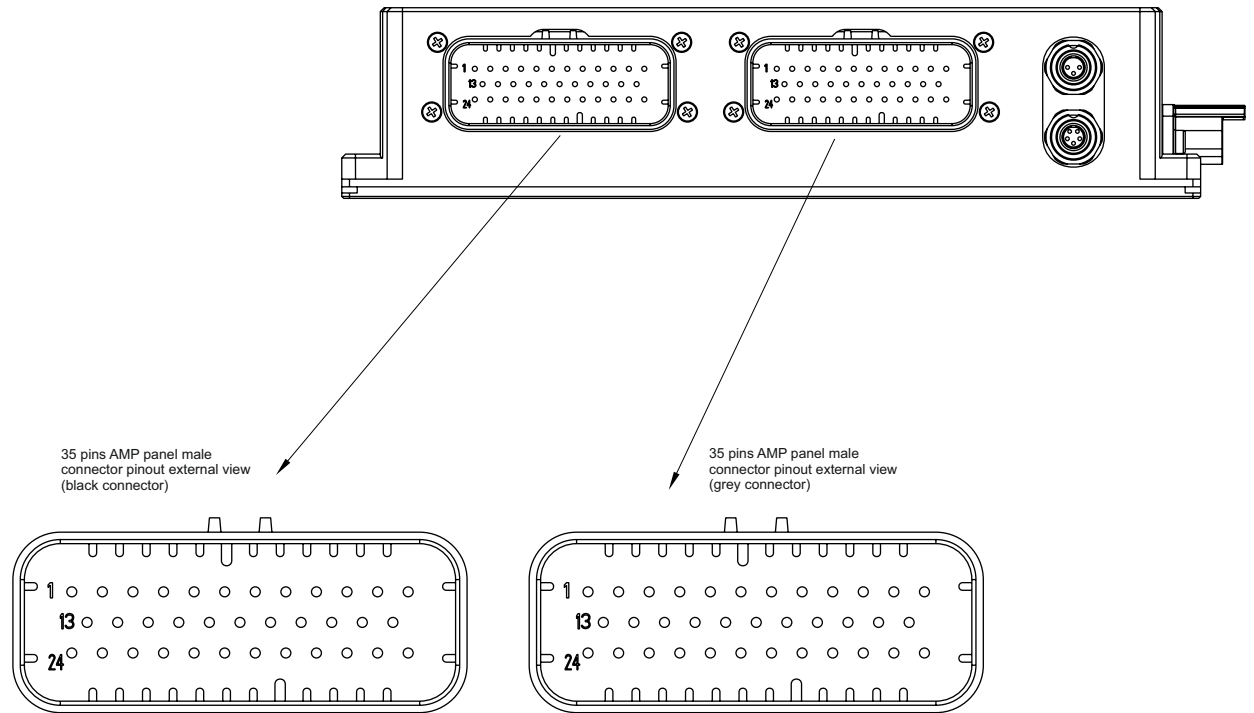




AiM PDM32

Power Distribution Module Wiring Harness

Pinout



PIN	DESCRIPTION	PIN	DESCRIPTION
1 ● ●	High power output 1	19	Low power output 6
2	Mid power output 1	20	Low power output 7
3	Mid power output 2	21	Low power output 8
4	Mid power output 3	22	CAN AiM High
5	Mid power output 4	23 ●	High power output 2
6	Mid power output 5	24 ●	High power output 3
7	Mid power output 6	25 ●	High power output 3
8	Mid power output 7	26	Channel input 11
9	Mid power output 8	27	Channel input 12
10	GND	28	CAN2 High
11	CAN AiM Low	29	CAN2 Low
12 ●	High power output 2	30	CAN ECU High/RS232TX
13 ● ●	High power output 1	31	CAN ECU Low/RS232RX
14	Low power output 1	32	+Vb ext CAN
15	Low power output 2	33	+Vb out CAN
16	Low power output 3	34 ●	High power output 4
17	Low power output 4	35 ●	High power output 4
18	Low power output 5		

PIN	DESCRIPTION	PIN	DESCRIPTION
1	Half bridge power output 1	19	Speed 2 input
2	Half bridge power output 1	20	Speed 1 input
3	Low power output 9	21	Channel input 9
4	Mid power output 9	22	Channel input 10
5	Mid power output 10	23	Ignition
6	Low power output 10	24	Half bridge power output 3
7	Low power output 11	25	Half bridge power output 3
8	Mid power output 11	26	Channel input 1
9	Mid power output 12	27	Channel input 2
10	Low power output 12	28	Channel input 3
11	Half bridge power output 2	29	Channel input 4
12	Half bridge power output 2	30	Channel input 5
13	P GND	31	Channel input 6
14	P GND	32	Channel input 7
15	LIN	33	Channel input 8
16	+5V Analog Vreference	34	Half bridge power output 4
17	+Vb output	35	Half bridge power output 4
18	GND		

- High Power Out 1 has internal serie diode
- High Power Outs (1,2,3,4) have internal freewheeling diode

Connector	Destination	Colour	Wire Size	Length Cm	Extended	Twisted	Exp
Black Connector							
1							
2	Mid P 1	Wh	1.00	300			
3	Mid P 2	Wh	1.00	300			
4	Mid P 3	Wh	1.00	300			
5	Mid P 4	Wh	1.00	300			
6	Mid P 5	Wh	1.00	300			
7	Mid P 6	Wh	1.00	300			
8	Mid P 7	Wh	1.00	300			
9	Mid P 8	Wh	1.00	300			
10	GND						Black-2
11	CAN 0 Lo						Blue-4
12							
13							
14	Lo P 1	Ye	0.75	300			
15	Lo P 2	Ye	0.75	300			
16	Lo P 3	Ye	0.75	300			
17	Lo P 4	Ye	0.75	300			
18	Lo P 5	Ye	0.75	300			
19	Lo P 6	Ye	0.75	300			
20	Lo P 7	Ye	0.75	300			
21	Lo P 8	Ye	0.75	300			
22	CAN 0 Hi						White-1
23							
24							
25							
26	CH 11	Gy	0.50	300			
27	CH 12	Gy	0.50	300			
28	CAN 2 Hi	Wh	0.50	300		Y	
29	CAN 2 Lo	Bk	0.50	300		Y	
30	CAN 1 Hi	Wh	0.50	300		Y	
31	CAN 1 Lo	Bu	0.50	300		Y	
32	+Vb Ext CAN						Orange-5
33	+Vb Out CAN						Red-3
1	Hi P 1	Bu	1.00	10	Blue 16 AWG		
13	Hi P 1	Bu	1.00	10	300 Cm		
12	Hi P 2	Bu	1.00	10	Blue 16 AWG		
23	Hi P 2	Bu	1.00	10	300 Cm		
24	Hi P 3	Bu	1.00	10	Blue 16 AWG		
25	Hi P 3	Bu	1.00	10	300 Cm		
34	Hi P 4	Bu	1.00	10	Blue 16 AWG		
35	Hi P 4	Bu	1.00	10	300 Cm		

Connector	Destination	Colour	Wire Size	Length Cm	Extended	Twisted	Exp
Grey Connector							
1	HBPO 1	Wh	16 AWG	10	White 2.5mm 300 Cm		
2	HBPO 1	Wh	16 AWG	10			
3	Lo P 9	Ye	0.75	300			
4	Mid P 9	Wh	1.00	300			
5	Mid P 10	Wh	1.00	300			
6	Lo P 10	Ye	0.75	300			
7	Lo P 11	Ye	0.75	300			
8	Mid P 11	Wh	1.00	300			
9	Mid P 12	Wh	1.00	300			
10	Lo P 12	Ye	0.75	300			
11	HBPO 2	Wh	16 AWG	10	White 2.5mm 300 Cm		
12	HBPO 2	Wh	16 AWG	10			
13	P GND	BK	1.50	300			
14	P GND	Bk	1.50	300			
15	LiN	Bn	0.50	100			
16	+5V Ana Ref	Wh	0.50	100			
17	+5V Output	Wh	0.50	100			
18	GND	Gn	0.50	100			
19	Speed1	Bu	0.50	300			
20	Speed2	Bu	0.50	300			
21	Ch 9	Gy	0.50	300			
22	Ch 10	Gy	0.50	300			
23	Ign	Rd	0.50	200			
24	HBPO 3	Wh	16 AWG	10	White 2.5mm 300 Cm		
25	HBPO 3	Wh	16 AWG	10			
26	Ch 1	Gy	0.50	300			
27	Ch 2	Gy	0.50	300			
28	Ch 3	Gy	0.50	300			
29	Ch 4	Gy	0.50	300			
30	Ch 5	Gy	0.50	300			
31	Ch 6	Gy	0.50	300			
32	Ch 7	Gy	0.50	300			
33	Ch 8	Gy	0.50	300			
34	HBPO 4	Wh	16 AWG	10	White 2.5mm 300 Cm		
35	HBPO 4	Wh	16 AWG	10			