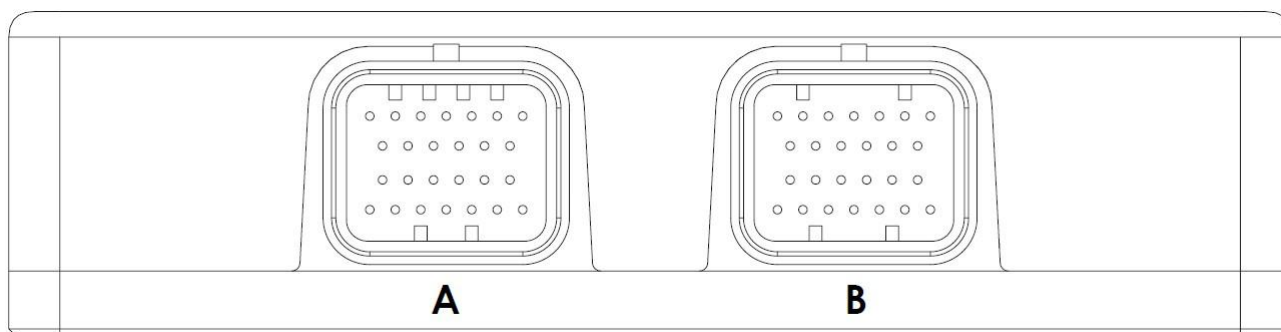


Pinout

Connector symbols:



Connector part numbers:

Connector series	AMP SUPERSEAL 1.0	
Connector A	1473416-2	26 Positions
Connector B	3-1437290-8	26 Positions
Terminal	3-1447221-3	16-18 AWG
Terminal	3-1447221-4	20 AWG

Power

Name	Count	Description
+12V supply	4	Power supply for the module Power should be provided when ECU turns on
+5V source	2	+5V sensor supply Source can provide up to 2 A of current

Ground

Name	Count	Description
Power GND	4	Power ground
Digital GND	1	Digital ground for SENT sensors
Analog GND	1	Analog ground for analog outputs

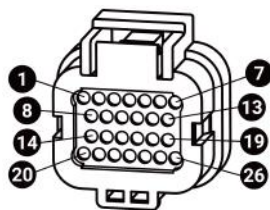
Communication		
Name	Count	Description
CAN high/low	2	CAN bus, used for communication with PC and peripheral devices. No internal termination resistor. External termination is required.
SENT	4	SENT (Single Ended Nibble Transmission) inputs for sensors.

Input		
Name	Count	Description
Injector Control	8	Activated by connecting ground Internal pull up to +12V
Pump Control	2	Activated by connecting ground Internal pull up to +12V

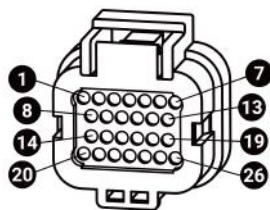
Analog outputs		
Name	Count	Description
Analog output	8	Outputs can be controlled by values from SENT or CAN Output voltage range: 0-5 V Voltage resolution: 12 bit

High side outputs		
Name	Count	Description
Injector high side	4	Output for direct injectors Low side output Common high side output for a pair of injectors Injectors in a pair cannot have pulse width overlap
Pump high side	2	Output for pump control valves High side output

Low side outputs		
Name	Count	Description
Injector low side	8	Output for direct injectors Low side output
Pump low side	2	Output for pump control valves Low side output

Connector A:

Pin	Name	Description
A1	Injector C, D high side	Common high side output for injectors C and D
A2	Injector A, B high side	Common high side output for injectors A and B
A3	Injector D low side	Low side output for injector D
A4	Injector C low side	Low side output for injector C
A5	Injector B low side	Low side output for injector B
A6	Injector A low side	Low side output for injector A
A7	Pump 1 low side	Low side output for pump 1
A8	Pump 1 control	Control input for pump 1
A9	Injector D control	Control input for injector D
A10	Injector C control	Control input for injector C
A11	Injector B control	Control input for injector B
A12	Injector A control	Control input for injector A
A13	Pump 1 high side	High side output for pump 1
A14	Power GND	Power ground
A15	Analog output 4	Analog output 4
A16	Analog output 3	Analog output 3
A17	Analog output 2	Analog output 2
A18	Analog output 1	Analog output 1
A19	+12V supply	Power supply
A20	Power GND	Power ground
A21	+5V source	+5V sensor supply
A22	Analog GND	Analog ground
A23	Digital GND	Digital ground
A24	SENT 1	SENT 1 sensor input
A25	SENT 2	SENT 2 sensor input
A26	+12V supply	Power supply

Connector B:

Pin	Name	Description
B1	Pump 2 low side	Low side output for pump 2
B2	Injector E low side	Low side output for injector E
B3	Injector F low side	Low side output for injector F
B4	Injector G low side	Low side output for injector G
B5	Injector H low side	Low side output for injector H
B6	Injector E, F high side	Common high side output for injectors E and F
B7	Injector G, H high side	Common high side output for injectors G and H
B8	Pump 2 high side	High side output for pump 2
B9	Injector E control	Control input for injector E
B10	Injector F control	Control input for injector F
B11	Injector G control	Control input for injector G
B12	Injector H control	Control input for injector H
B13	Pump 2 control	Control input for pump 2
B14	+12V supply	Power supply
B15	Analog output 5	Analog output 5
B16	Analog output 6	Analog output 6
B17	Analog output 7	Analog output 7
B18	Analog output 8	Analog output 8
B19	Power GND	Power ground
B20	+12V supply	Power supply
B21	SENT 3	SENT 3 sensor input
B22	SENT 4	SENT 4 sensor input
B23	CAN low	CAN bus low, used for communication with PC and peripheral devices.
B24	CAN high	CAN bus high, used for communication with PC and peripheral devices.
B25	+5V source	+5V sensor supply
B26	Power GND	Power ground

The following wire gauges are recommended for proper operation of GDI Driver:

Name	AWG
+12 V power supply	16
Power ground	16
Injector high side	20
Injector low side	20
Pump high side	20
Pump low side	20