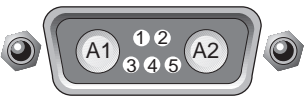
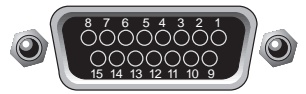
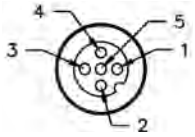


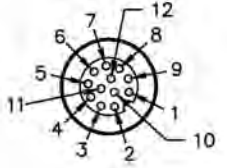
Class 5 D-Style Connector Pinouts

OVERVIEW
SOFTWARE
D-STYLE MOTORS
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APPENDIX

PIN	MAIN POWER	Specifications:	Notes:	P1
1	I/O – 6 GP, Index Input or “G” Command	25 mAmp Sink or Source 10 Bit 0-5 VDC A/D	Redundant connection on I/O connector	 <p>7W2 Combo D-Sub Connector</p>
2	+5 VDC Out	50 mAmps Max (total)		
3	RS-232 Transmit	Com ch. 0	115.2 KBaud Max	
4	RS-232 Receive	Com ch. 0	115.2 KBaud Max	
5	SIG Ground			
A1	Main Power: +20-48 VDC			
A2	Ground			

PIN	I/O CONNECTOR (5VTTL I/O)	Specifications:	Notes:	P2
1	I/O – 0 GP or Encoder A or Step Input	25mAmp Sink or Source 10 Bit 0-5VDC A/D	1.5 MHz Max as Encoder or Step Input	 <p>P2 DB-15 D-Sub Connector</p>
2	I/O – 1 GP or Encoder B or Direction Input	25mAmp Sink or Source 10 Bit 0-5VDC A/D	1.5 MHz Max as Encoder or Direction Input	
3	I/O – 2 Positive Over Travel or GP	25mAmp Sink or Source 10 Bit 0-5VDC A/D		
4	I/O – 3 Negative Over Travel or GP	25mAmp Sink or Source 10 Bit 0-5VDC A/D		
5	I/O – 4 GP, IIC or RS-485 A (Com ch. 1)	25mAmp Sink or Source 10 Bit 0-5VDC A/D	115.2 KBaud Max	
6	I/O – 5 GP, IIC or RS-485 B (Com ch. 1)	25mAmp Sink or Source 10 Bit 0-5VDC A/D	115.2 KBaud Max	
7	I/O – 6 GP, Index Input or “G” Command	25mAmp Sink or Source 10 Bit 0-5VDC A/D	Redundant connection on Main Power Connector	
8	Phase A Encoder Output			
9	Phase B Encoder Output			
10	RS-232 Transmit	Com ch. 0	115.2 KBaud Max	
11	RS-232 Receive	Com ch. 0	115.2 KBaud Max	
12	+5 VDC Out	50 mAmp Max (total)		
13	SIG Ground			
14	Ground			
15	Main Power: +20-48 VDC	If DE Option, Control Power separate from Main Power		

PIN	CAN bus	Connection:	Notes:	P3
1	NC	NC		 <p>M12 5-PIN FEMALE END VIEW</p>
2	+V	NC except DeviceNet	Input current < 10 mA	
3	-V (ground)	Common Ground	Isolated	
4	CAN-H	1 MBaud Max		
5	CAN-L	1 MBaud Max		

PIN	Isolated 24VDC I/O Connector	Max Load (sourcing)	Notes:	P4
1	I/O – 16 GP	150 mAmps		 <p>M12 12-PIN FEMALE END VIEW</p>
2	I/O – 17 GP	150 mAmps		
3	I/O – 18 GP	150 mAmps		
4	I/O – 19 GP	150 mAmps		
5	I/O – 20 GP	300 mAmps		
6	I/O – 21 GP	300 mAmps		
7	I/O – 22 GP	300 mAmps		
8	I/O – 23 GP	300 mAmps		
9	I/O – 24 GP	300 mAmps		
10	I/O – 25 GP	300 mAmps		
11	+24 Volts Input	18-32 VDC		
12	GND-I/O			

CAUTION: Pins 14 and 15 are intended for use with DE series motors for control power only. Attempting to power a non-DE motor through those pins, as main servo-drive power, may result in immediate damage to the electronics, which will void the warranty.