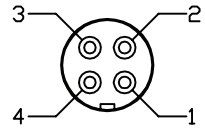
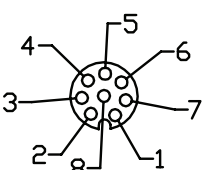
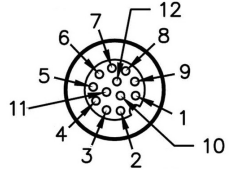
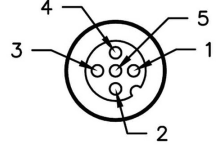
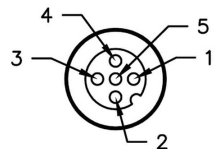


Functions of I/O Ports

"M" Type SmartMotor Connector Pinouts:

PIN	Main Power	Specifications:	Notes:	Diagram:
1	Control Power In	+12.5V Min., 28V Max.	Also supplies I/O	M16, 4 Pin Male 
2	Chassis			
3	Control, Com, I/O and Amplifier Ground	Common Ground	Unisolated	
4	Amplifier Power In	+12.5V Min., 48V Max.	Powers Amplifier Only	
PIN	Communications Connector	Specifications:	Notes:	Diagram:
1	Control, Com, I/O and Amp Ground	Common Ground	Unisolated	M12, 8-Pin Female End View 
2	RS-485 B, Channel 0	115.2KBaud Max		
3	RS-485 A, Channel 0	115.2KBaud Max		
4	Encoder A+ Input/Output	1.5MHz max. as Enc or Step input	Configurable as Encoder Output	
5	Encoder B- Input/Output	1.5MHz max. as Enc or Direction input	Configurable as Encoder Output	
6	Encoder A- Input/Output	1.5MHz max. as Enc or Step input	Configurable as Encoder Output	
7	+5V Out	250mA Max.		
8	Encoder B+ Input/Output	1.5MHz max. as Enc or Direction input	Configurable as Encoder Output	
PIN	24V I/O Connector	Specifications:	Notes:	Diagram:
1	I/O – 0 GP	150mAmps Max.		M12, 12-Pin Female End View 
2	I/O – 1 GP	150mAmps Max.		
3	I/O – 2 GP	150mAmps Max.		
4	I/O – 3 GP	150mAmps Max.		
5	I/O – 4 GP	300mAmps Max.		
6	I/O – 5 GP	300mAmps Max.		
7	I/O – 6 GP	300mAmps Max.		
8	I/O – 7 GP	300mAmps Max.		
9	I/O – 8 GP or External Brake	300mAmps Max.		
10	I/O – 9 GP	300mAmps Max.		
11	+24Volts Out	12.5V Min., 28V Max.		
12	Ground	Common Ground	Unisolated	
PIN	Limit Connector	Specifications:	Notes:	Diagram:
1	+24Volts Out		From Control Pwr In	M12, 5-Pin Female End View 
2	-Limit (Input 7)		Configurable	
3	Ground	Common Ground	Unisolated	
4	+Limit (input 6)	1M Baud max	Configurable	
5	Input 8	1M Baud max	Configurable	
PIN	CAN Connector	Specifications:	Notes:	Diagram:
1	NC	NC		M12, 5-Pin Female End View 
2	NC	NC		
3	Ground	Common Ground	Unisolated	
4	CAN-H	1M Baud max		
5	CAN-L	1M Baud max		