

Module connections for modules with generation 2 connector to motor.

No.	Pin No.	Pin	Description	Color	Iso. Group	No.	Pin No.	Pin	Description	Color	Iso. Group
1: MAC00-xxx: Power cable M12 5-pin Male A-code, Eg, W11000-M12F5TxxN						12: MAC00-B42: IO cable M12 8-pin Male A-code, Eg, W11000-M12F8TxxN					
1	P+		Main supply +12-48VDC.	Brown	1	1	IN1		Digital input 1	White	3
2	P+		Main supply +12-48VDC.	White	1	2	IN2		Digital input 1	Brown	3
3	P-		Main supply ground.	Blue	1	3	IN3		Digital input 1	Green	3
4	O+		Output Supply / Control Voltage	Black	1	4	IN4		Digital input 1	Yellow	3
5	P-		Main supply ground.	Grey	1	5	O1		Digital output 1 - PNP output	Grey	3
4: MAC00-B42: COM cable M12 5-pin Female A-code, Eg, W11000-M12M5TxxN						6	O2		Digital output 1 - PNP output	Pink	3
1	RS232 - RX		RS232 interface. Receive terminal	Brown	1	7	O+		Output supply +5-32VDC. Used for O1-4.	Blue	3
2	RS232 - TX		RS232 interface. Transmit terminal	White	1	8	IO-		I/O ground	Red	3
3	RS485 - B+		RS485 interface.	Blue	1	13: MAC00-B42: COM+IO cable M12 8-pin Female A-code, Eg, W11000-M12M8TxxN					
4	RS485 - A-		RS485 interface.	Black	1	1	AIN1		Analogue Input 1	White	1
5	Gnd		Ground	Grey	1	2	RS232 - TX		RS232 interface - transmit output	Brown	1
5: MAC00-B41: IO cable M12 8-pin Male A-code, Eg, W11000-M12F8TxxN						3	RS232 - RX		RS232 interface - receive input	Green	1
1	DIO1		I/O channel 1 - Either Input or Output	White	1	4	Gnd		Ground	Yellow	1
2	DIO2		I/O channel 2 - Either Input or Output	Brown	1	5	A+		Multifunction I/O 1 terminal A+	Grey	1
3	DIO3		I/O channel 3 - Either Input or Output	Green	1	6	A-		Multifunction I/O 1 terminal A-	Pink	1
4	DIO4		I/O channel 4 - Either Input or Output	Yellow	1	7	B+		Multifunction I/O 1 terminal B+	Blue	1
5	DIO5		I/O channel 5 - Either Input or Output	Grey	1	8	B-		Multifunction I/O 1 terminal B-	Red	1
6	DIO6		I/O channel 6 - Either Input or Output	Pink	1	14: MAC00-Ex4: COM+IO cable M12 8-pin Female A-code, Eg, W11000-M12M8TxxN					
7	CVO		Supply output. Connected internally to the CVI	Blue	1	1	O1		Output 1 - PNP/Sourcing output	White	2
8	Gnd		Ground	Red	1	2	RS232 - TX		RS232 interface - transmit output	Brown	1
6: MAC00-B41: COM+IO cable M12 8-pin Female A-code, Eg, W11000-M12M8TxxN						3	RS232 - RX		RS232 interface - receive input	Green	1
1	USB - D-		USB interface. Negative data terminal	White	2	4	Gnd		Ground	Yellow	1
2	RS232 - TX		RS232 interface - transmit output	Brown	2	5	AIN1		Analogue Input 1	Grey	1
3	RS232 - RX		RS232 interface. Receive terminal	Green	2	6	IN1		Digital input 1 - 12-32V tolerant.	Pink	2
4	Ignd		Isolated interface ground	Yellow	2	7	IO-		I/O ground for IN1 and O1	Blue	2
5	RS485 - A-		RS485 interface.	Grey	2	8	O+		Positive supply input for O1 (5-32VDC)	Red	2
6	RS485 - B+		RS485 interface.	Pink	2	15: MAC00-Ex41: COM+IO cable M12 17-pin Female A-code, Eg, W11009-M12M17TxxN					
7	USB - D+		USB interface. Positive data terminal	Blue	2	1	IN1		Input channel 1.	Brown	2
8	USB - VBUS		USB interface. Supply input 5VDC nominal	Red	2	2	Gnd		Ground	Blue	1
7: MAC00-B41: IO cable M12 12-pin Female A-code, Eg, W11009-M12M12TxxN						3	IN2		Input channel 2.	White	2
1	A1+		Multifunction I/O 1 terminal A+	Brown	1	4	IN3		Input channel 3.	Green	2
2	Gnd		Ground	Blue	1	5	B2-		Multifunction I/O 2 terminal B-	Pink	1
3	A1-		Multifunction I/O 1 terminal A-	White	1	6	IN4		Input channel 4.	Yellow	2
4	B1+		Multifunction I/O 1 terminal B+	Green	1	7	A2-		Multifunction I/O 2 terminal A-	Black	1
5	A2+		Multifunction I/O 2 terminal A+	Pink	1	8	B2+		Multifunction I/O 2 terminal B+	Grey	1
6	B1-		Multifunction I/O 1 terminal B-	Yellow	1	9	Out+		Positive supply input for O1/2 (5-32VDC)	Red	2
7	B2+		Multifunction I/O 2 terminal B+	Black	1	10	A2+		Multifunction I/O 2 terminal A+	Violet	1
8	A2-		Multifunction I/O 2 terminal A-	Grey	1	11	O1		Output 1	Grey/Pink	2
9	SVO		5V out - max 100mA	red	1	12	O2		Output 2	Red/blue	2
10	B2-		Multifunction I/O 2 terminal B-	Violet	1	13	AIN1		Analogue Input 1	White/Green	1
11	AIN1		Analogue input 1	Grey/Pink	1	14	AIN2		Analogue Input 2	Brown/Green	1
12	AIN2		Analogue input 2	Red/Blue	1	15	RS232 - RX		RS232 interface. Receive terminal	White/Yellow	1
8: MAC00-FC41: CAN cable M12 5-pin Male/Female A-code, Eg, W11006-M12F5/(M5)TxxN						16	IO-		Ground for inputs and outputs	Yellow/Brown	2
1	CAN-Shield		Shield for the CAN interface	Shield	2	17	RS232 - TX		RS232 interface - transmit output	White/Grey	1
2	CAN-V+ (NC)		Reserved for FD4	Red	2	16: MAC00-Ex4 and -Ex41: Ethernet cable M12 4-pin Female D-code, Eg, W11046-M12M4Txxy					
3	CAN-gnd		CAN interface ground	Black	2	1	Tx0-P		Ethernet Transmit channel 0/1 - positive terminal	Brown/White	3/4
4	CAN-H		CAN interface. Positive signal line	White	2	2	Rx0-P		Ethernet Receive channel 0 - positive terminal	Blue/White	3/4
5	CAN-L		CAN interface. Negative signal line	Blue	2	3	Tx0-N		Ethernet Transmit channel 0/1 - negative terminal	Brown	3/4
9: MAC00-FC41: COM+IO cable M12 8-pin Female A-code, Eg, W11000-M12M8TxxN						4	Rx0-N		Ethernet Receive channel 0 - negative terminal	Blue	3/4
1	IOC		I/O terminal C.	White	3	5	-		Shield	Shield	1
2	RS232 - TX		RS232 interface - transmit output	Brown	1	17: MAC00-Ex4 and -Ex41: Alt. Ether. cable M12 4-pin Female D-code, Eg, W11046-M12M4Txxy					
3	RS232 - RX		RS232 interface - receive input	Green	1	1	Tx0-P		Ethernet Transmit channel 0/1 - positive terminal	Orange/White	3/4
4	Gnd		Ground	Yellow	1	2	Rx0-P		Ethernet Receive channel 0 - positive terminal	Green/White	3/4
5	IOA		I/O terminal A.	Grey	3	3	Tx0-N		Ethernet Transmit channel 0/1 - negative terminal	Orange	3/4
6	IOB		I/O terminal B.	Pink	3	4	Rx0-N		Ethernet Receive channel 0 - negative terminal	Green	3/4
7	IO-		I/O ground to be used with IOA, -B, -C, -D	Blue	3	5	-		Shield	Shield	1
8	IOD		I/O terminal D.	Red	3	18: MAC00-B42: COM cable M12 5-pin Female A-code, Eg, RS232-M12-1-5-5					
18: MAC00-B42: COM cable M12 5-pin Female A-code, Eg, RS232-M12-1-5-5						19: MAC00-B41: COM cable M12 8-pin Female A-code, Eg, RS232-M12-1-5-8					
1	RS232 - RX		RS232 interface. Receive terminal	Brown	1	1	NC				1
2	RS232 - TX		RS232 interface. Transmit terminal	White	1	2	RS232 - TX		RS232 interface. Transmit terminal	Brown	1
3	NC				1	3	RS232 - RX		RS232 interface. Receive terminal	Green	1
4	NC				1	4	Gnd		Ground	Yellow	1
5	Gnd		Ground	Grey	1	5	NC				1
19: MAC00-B41: COM cable M12 8-pin Female A-code, Eg, RS232-M12-1-5-8						6	NC				1
1	NC				1	7	NC				1
2	NC				1	8	NC				1