

Connector signal description when used with MAC00-Ex41

BYPASS (J1) - M12 - 17pin female connector.				
Signal name	Description	Pin no.	JVL Cable W11009M12 M17TxN	Isolation group (see note)
IN1	Input channel 1. Can be used as digital input	1	Brown	2
GND	Ground intended to be used together with the other signals related to isolation group 1 in this connector	2	Blue	1
IN2	Input channel 2. Can be used as digital input	3	White	2
IN3	Input channel 3. Can be used as digital input	4	Green	2
B2-	RS485 Multifunction I/O terminal B2-	5	Pink	1
IN4	Input channel 4. Can be used as digital input	6	Yellow	2
A2-	RS485 Multifunction I/O terminal A2-	7	Black	1
B2+	RS485 Multifunction I/O terminal B2+	8	Grey	1
OUT+	Output 1 and 2 supply input. DO NOT connect >30V to this terminal !	9	Red	2
A2+	RS485 Multifunction I/O terminal A2+	10	Violet	1
O1	Output 1. Can be used as digital output	11	Grey/pink	2
O2	Output 2. Can be used as digital output	12	Red/blue	2
AIN1	Analog input 1. Can be used as analog input $\pm 10V$.	13	White/Green	1
AIN2	Analog input 2. Can be used as analog input $\pm 10V$.	14	Brown/Green	1
RS232: RX	RS232 interface. Receive terminal Leave open if unused.	15	Green	1
IO-	Ground for IN1-4 and O1 and 2. Please notice that this terminal is normally isolated from the main ground and belongs to isolation group 2	16	Yellow/brown	2
RS232: TX	RS232 interface. Transmit terminal Leave open if unused.	17	White/Grey	1
COM (J2) - M12 - 8pin female connector.				
Signal name	Description	Pin no.	JVL Cable W11000-M12 M8T05N	Isolation group (see note)
IN4	Input channel 4. Can be used as digital input	1	White	2
RS232: TX	RS232 interface. Transmit terminal Leave open if unused.	2	Brown	1
RS232: RX	RS232 interface. Receive terminal Leave open if unused.	3	Green	1
GND	Ground intended to be used together with the other signals related to isolation group 1 in this connector	4	Yellow	1
RS232: RX	RS232 interface. Receive terminal Leave open if unused.	5	Grey	1
RS232: TX	RS232 interface. Transmit terminal Leave open if unused.	6	Pink	1
AIN1	Analog input 1. Can be used as analog input $\pm 10V$.	7	Blue	1
AIN2	Analog input 2. Can be used as analog input $\pm 10V$.	8	Red	1
I/O 1 (J3) - M12 - 8pin male connector.				
Signal name	Description	Pin no.	JVL Cable W11000-M12 F8T05N	Isolation group (see note)
IN1	Input channel 1. Can be used as digital input	1	White	2
IN2	Input channel 2. Can be used as digital input	2	Brown	2
IN3	Input channel 3. Can be used as digital input	3	Green	2
IO-	Ground for IN1-4 and O1 and 2. Please notice that this terminal is normally isolated from the main ground and belongs to isolation group 2	4	Yellow	2
O2	Output 2. Can be used as digital output	5	Grey	2
O1	Output 1. Can be used as digital output	6	Pink	2

GND	Ground intended to be used together with the other signals related to isolation group 1 in this connector	7	Blue	1
OUT+	Output 1 and 2 supply input. DO NOT connect >30V to this terminal !	8	Red	2
I/O 2 (J4) - M12 - 8pin male connector.				
Signal name	Description	Pin no.	JVL Cable WI1000-M12 F8T05N	Isolation group (see note)
IN4	Input channel 4. Can be used as digital input	1	White	2
AIN1	Analog input 1. Can be used as analog input $\pm 10V$.	2	Brown	1
AIN2	Analog input 2. Can be used as analog input $\pm 10V$.	3	Green	1
IO-	Ground for IN1-4 and O1 and 2. Please notice that this terminal is normally isolated from the main ground and belongs to isolation group 2	4	Yellow	2
O2	Output 2. Can be used as digital output	5	Grey	2
O1	Output 1. Can be used as digital output	6	Pink	2
GND	Ground intended to be used together with the other signals related to isolation group 1 in this connector	7	Blue	1
OUT+	Output 1 and 2 supply input. DO NOT connect >30V to this terminal !	8	Red	2

Connector signal description when used with MIS34xxxxExxx

BYPASS (J1) - M12 - 17pin female connector.				
Signal name	Description	Pin no.	JVL Cable W11009M12 M17TxxN	Isolation group (see note)
IO1	I/O channel 1. Can be used as input or output	1	Brown	1
GND	Ground intended to be used together with the other signals in this connector	2	Blue	1
IO2	I/O channel 2. Can be used as input or output	3	White	1
IO3	I/O channel 3. Can be used as input or output	4	Green	1
B1-	RS422 I/O terminal B-	5	Pink	1
IO4	I/O channel 4. Can be used as input or output	6	Yellow	1
A1-	RS422 I/O terminal A-	7	Black	1
B1+	RS422 I/O terminal B+	8	Grey	1
CVO	Supply output. Connected internally to the CVI terminal in the PWR connector.	9	Red	1
A1+	RS422 I/O terminal A+	10	Violet	1
IO5	I/O channel 5. Can be used as input or output	11	Grey/pink	1
IO6	I/O channel 6. Can be used as input or output	12	Red/blue	1
IO7	I/O channel 7. Can be used as input or output	13	White/Green	1
IO8	I/O channel 8. Can be used as input or output	14	Grey/pink	1
RS485+	RS485 interface. Leave open if unused	15	Red/blue	1
GND/ EXTBACKUP	Only for motors installed with the H3 option (absolute multiturn encoder). This terminal can be connected to an external supply. Connect to ground if not used.	16	Yellow/brown	1
RS485-	RS485 interface. Leave open if unused	17	White/grey	1
COM (J2) - M12 - 8pin female connector.				
Signal name	Description	Pin no.	JVL Cable W11000-M12 M8T05N	Isolation group (see note)
IO4	I/O channel 4. Can be used as input or output	1	White	1
RS485-	RS485 interface. Leave open if unused	2	Brown	1
RS485+	RS485 interface. Leave open if unused	3	Green	1
GND	Ground intended to be used together with the other signals in this connector	4	Yellow	1
RS485+	RS485 interface. Leave open if unused	5	Grey	1
RS485-	RS485 interface. Leave open if unused	6	Pink	1
IO7	I/O channel 7. Can be used as input or output	7	Blue	1
IO8	I/O channel 8. Can be used as input or output	8	Red	1
I/O 1 (J3) - M12 - 8pin male connector.				
Signal name	Description	Pin no.	JVL Cable W11000-M12 F8T05N	Isolation group (see note)
IO1	I/O channel 1. Can be used as input or output	1	White	1
IO2	I/O channel 2. Can be used as input or output	2	Brown	1
IO3	I/O channel 3. Can be used as input or output	3	Green	1
GND/ EXTBACKUP	Only for motors installed with the H3 option (absolute multiturn encoder). This terminal can be connected to an external supply. Connect to ground if not used.	4	Yellow	1
IO6	I/O channel 6. Can be used as input or output	5	Grey	1
IO5	I/O channel 5. Can be used as input or output	6	Pink	1
GND	Ground intended to be used together with the other signals in this connector	7	Blue	1
CVO	Supply output. Connected internally to the CVI terminal in the PWR connector.	8	Red	1
I/O 2 (J4) - M12 - 8pin male connector.				
Signal name	Description	Pin no.	JVL Cable W11000-M12 F8T05N	Isolation group (see note)
IO4	I/O channel 4. Can be used as input or output	1	White	1
IO7	I/O channel 7. Can be used as input or output	2	Brown	1
IO8	I/O channel 8. Can be used as input or output	3	Green	1

GND/ EXTBACKUP	Only for motors installed with the H3 option (absolute multiturn encoder). This terminal can be connected to an external supply. Connect to ground if not used.	4	Yellow	1
IO6	I/O channel 6. Can be used as input or output	5	Grey	1
IO5	I/O channel 5. Can be used as input or output	6	Pink	1
GND	Ground intended to be used together with the other signals in this connector	7	Blue	1
CVO	Supply output. Connected internally to the CVI terminal in the PWR connector.	8	Red	1