



MAC00-EI4

EtherNet/IP module M12 connectors G2



General information

Description	EtherNet/IP module M12 connectors G2, EtherNet/IP module M12 (G2) IP67, 2IO 1AI RS232 Expansion Module for MAC motor®. RS232 (not 485) 8pF ! ONLY for MAC400..3000 & MACxxx-A1AAAA-A009		
Manufacture	JVL	For motor type	MAC
Color	Black	Protection house	IP67
Software	MacTalk	Interface	RS232
Connectivity: Without module	Ethernet IP		
Control voltage (CVI/O+) [VDC]	12-28	Main supply [V]	12-48
Expansion connector	Generation 2		
Integrated PLC	No	PLC no. of DI	1
PLC no. of AIN		PLC no. of DO	1
Multifunction IOs		PLC no. of DIO	n/a
Datasheet - pdf	ld0102gb.pdf		
Country Of Origin	DK	Tariff no	85371098
Tariff no US			



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Mechanical information

Customer Sealing



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Connector information

Expansion connector Generation 2

Motor connectors



Connector 1 label	PWR	Connector 1	M12 5-pin male A-coded
Connector 2 label	IO	Connector 2	M12 8-pin female A-coded
Connector 3 label	LA OUT	Connector 3	M12 4-pin female D-coded Ethernet
Connector 4 label	LA IN	Connector 4	M12 4-pin female D-coded Ethernet
Connector 2 RS232	Yes	Connector 2 RS485	No
Connector 3 RS232	No	Connector 3 RS485	No
Connector 4 RS232	No	Connector 4 RS485	No

Picture CN1

"PWR" - Power input. M12 - 5pin male connector				
Signal name	Description	Pin no.	JVL Cable W11000-M12F5T05N	Isolation group
P+	Main supply - Connect with pin 2 * When installed in MAC050 to 141 = 12-48VDC When installed in MAC400-4500 = 18-30VDC	1	Brown	1
P+	Main supply - Connect with pin 1 *	2	White	1
P-	Main supply ground. Connect with pin 5 *	3	Blue	1
CVI	Control supply nominal +12-48VDC. DO NOT connect >50V to this terminal ! A small leakage current may exist on this pin if not used. Connect this terminal to ground if not used.	4	Black	1
P-	Main supply ground. Connect with pin 3 *	5	Grey	1

* Note: P+ and P- are each available at 2 terminals. Make sure that both terminals are connected in order to split the supply current in 2 terminals and thereby avoid an overload of the connector.

Picture CN2

"I/O" - I/O's and interface. M12 - 8pin female connector.				
Signal name	Description	Pin no.	JVL Cable W11000-M12M8T05N	Isolation group (See note)
O1	Output 1 - PNP/Sourcing output	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	Interface ground to be used together with the other signals in this connector. Also ground for the analogue input (AIN1 - pin 5)	4	Yellow	1
AIN1	Analogue input1 ±10V or used for zero search	5	Grey	1
IN1	Digital input 1 - 12-32V tolerant.	6	Pink	2
IO-	I/O ground to be used with the I/O terminals O1 and IN1.	7	Blue	2
O+	Positive supply input to the output circuitry. Connect 5-32VDC to this terminal if using the O1 output.	8	Red	2



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Connector information

Picture CN3

"L/A OUT" - Ethernet port connector. M12 - 4 pin female connector "D" coded				
Signal name	Description	Pin no.	JVL Cable WI1046-M12M4S05R	Isolation group (see note)
Tx1_P	Ethernet Transmit channel 1 - positive terminal	1	Brown/White	4
Rx1_P	Ethernet Receive channel 1 - positive terminal	2	Blue/White	4
Tx1_N	Ethernet Transmit channel 1 - negative terminal	3	Brown	4
Rx1_N	Ethernet Receive channel 1 - negative terminal	4	Blue	4
Shield	Outside shield connected to connector housing	Housing	Shield	1

Picture CN4

"L/A IN" - Ethernet port connector - M12 - 4pin female connector "D" coded				
Signal name	Description	Pin no.	JVL Cable WI1046-M12M4S05R	Isolation group (See note)
Tx0_P	Ethernet Transmit channel 0 - positive terminal	1	Brown/White	3
Rx0_P	Ethernet Receive channel 0 - positive terminal	2	Blue/White	3
Tx0_N	Ethernet Transmit channel 0 - negative terminal	3	Brown	3
Rx0_N	Ethernet Receive channel 0 - negative terminal	4	Blue	3
Shield	Outside shield connected to connector housing	Housing	Shield	1

Module Cabel 1

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Module Cabel 2

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Module Cabel 3

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Module Cabel 4

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Electrical information

Control voltage (CVI/O+) [VDC]	12-28	Control Voltage (CVI) Min-Max [VDC]	
Max current CVI [A]			
Main supply [V]	12-48	Main supply Min-Max [V]	10-50
Rated Winding current [A]		P- isolated from Earth (Low Voltage ground (P-) isolated from housing)	
PLC no. of DI	1	Dig. Input impedans	10kohm
PLC no. of DO	1	PLC DO max current [mA/DO]	15mA - PNP
PLC no. of DIO	n/a		
PLC no. of AIN		PLC AIN voltage [VDC]	-10 to +10
PLC AIN Min-Max [VDC]	-10 to +32	PLC AIN Max Tol. [%]	5.0
Multifunction IOs		PLC MF low level [VDC]	
PLC MF high level [VDC]		PLC MF Max level [VDC]	
MTBF 30% [Year]		MTBF 100% [Year]	



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Communication information

e-PLC Files

Ethernet, PLC demo files