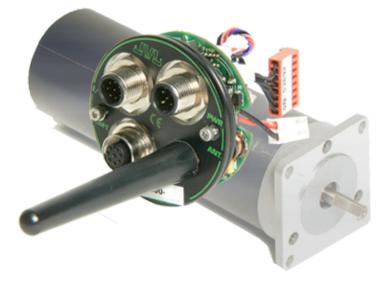




JVL...integration in motion

Bluetooth Wireless Expansion Module for MAC motors. Type MACOO-FB4



A range of integrated AC servo motors makes JVL a world leader within motion control. The numerous features of these motors include a modular concept that makes it extremely easy to adapt the motors to a very wide range of applications.

This module MAC00-FB4 now makes it possible to use wireless control of the motors, giving total freedom of cables.

The module makes it possible to have a direct BlueTooth connection to the motor. Via the BlueTooth connection, the motor can be set-up and controlled with the same possibilities as offered by a serial connection. Functionality is exactly as with the MAC00-R4 module, but instead of the serial connector the FB4 module is equipped with an antenna. The module can be programmed via MacTalk. Control is typical from a mobile phone or a PC. On a PC the program MacTalk can be used directly, or commands can be send from your own program.

The module furthermore has the possibility for connection of a local zeroset sensor. Connection of supply and signals takes place through 3 robust M12 connectors.

The module has a standard antenna plug connection, where the included antenna is connected. Other antennaes can be connected if required.

Applications:

- Positioning of axes.
- Supervising motor.
- Parameter setup.

Function

- The solution gives full access to all functions and registers in the MAC motor.
- Possible to connect up to 7 modules (Requires a Bluetooth server. E.g. Initium Bluetooth server)
- Baud rates of 19200
- Wireless control of the motor

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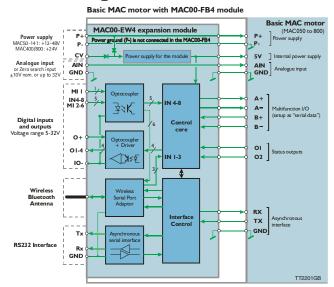
- 4 In- and 4 Outputs
- Programmable via wireless control with MacTalk

LD0068-03GB

Date: 19-7-07



Block Diagram



Pin Connections

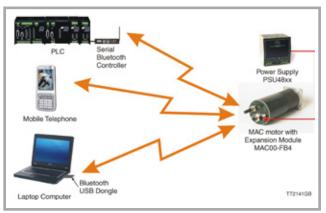
"PWR" Power	input. M12 – 5 pin male connecto	r
Signal name	Description	Pin no.
P+	Main supply+12-48VDC.	1
P+	Main supply+12-48VDC	2
P-	Main supply ground	3
CV	Control voltage	4
P-	Main supply ground	5
"IO1" Basic I/	O's. M12-8pin male connector	
Signal name	Description	Pin no.
MI1	Mirror input I1	1
IN4/MI2	Digital input 4 and Mirror I2	2
IN5/MI3	Digital input 5 and Mirror I3	3
IN6/MI4	Digital input 4 and Mirror I4	4
01	Digital output 1 - PNP output	5
02	Digital output 2 - PNP output	6
0+	Output supply +5-32VDC. used for 01-4.	7
10-	I/O ground. Used for IN4-8, MI1-MI4 and O1-4	8
"IO2" - Exter	nded I/O's. M12 - 8pin female conn	ector
Signal name	Description	Pin no.
IN7/MI5	Mirrored input A	1
RS232: Tx	RS232 Transmit	2
RS232: Rx	RS232 Receive	3
GND	Ground for AIN. This ground is	4
	shared with the main ground	
03	Digital output 3 - PNP output	5
04	Digital output 4 - PNP output	6
AIN	Analog input +/-10V	7
	(also used for zero search sensor)	
IN8/MI6	Digital input 8 and Mirror I6	8

Accessories

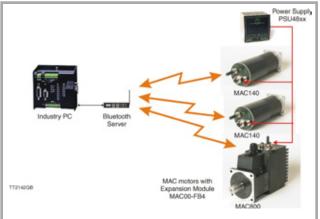


MA0006: Antenna stand for relocation with 1m cable. MA0002: 70mm antenna on 3m cable. MA0004: Antenna, rugged stub. 1pcs. delivered with the module USB-Bluetooth 2.0:

USB to wireless Bluetooth 2.0



Examples of communication possibilities with the Bluetooth Expansion module. Note: Only one of the possibilities can communicate at a time.



Communication between an Industry PC and several MAC motors.

Specifications

Version 2.0 Class1			
MAC00-FB4-01 +7dBm (10-50m).			
MAC00-FB4-02 +17dBm (>300m).			
Connectblue with Philips chipset			
BGB203. This product contains a			
Bluetooth qualified product, QPLN			
B02599.			
Generic Access Profile (GAP),			
Serial Port Profile (SPP).			
Dial-up Networking Profile (DVN;			
GW; DVN DT).			
19200 bits/s.			
Antenna connections: SMA.			
MAC00-FBX-Kit. Contains module			
MAC00-FB4 incl. antenna MA0004,			
dongle USB-Bluetooth 2.0 and CD			
with software driver and set-up pro-			
gram.			



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