Product Data

JVL ...when motors must be controlled

Input/Output Module IOM11 and IOM11A

The IOM 11 Input/Output Modules are intended for extending the number of inputs and outputs on JVL Motor Controllers equipped with a module interface.

Each Input/Output Module has 16 inputs and 8 outputs, all of which are optically isolated. They are additionally equipped with a counter whose value can be read by the overall Controller. Moreover, extended model IOM11A has an analogue output for control of e.g. frequency converters, DC motors and thermostat controls.

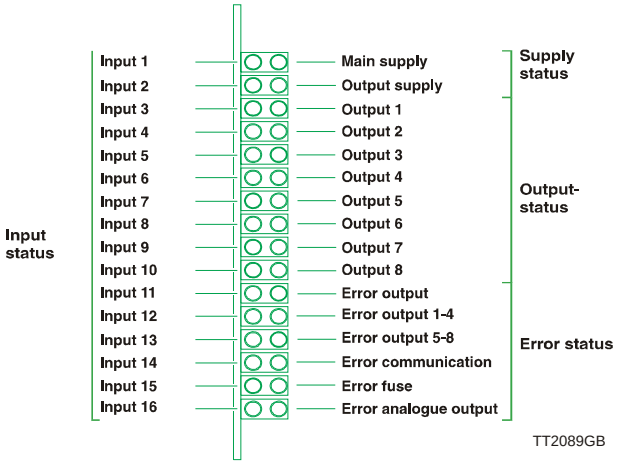
Via the Controller's extended command set, it is possible to activate or deactivate individual outputs or set all outputs up to a certain binary pattern. Control of program flow is also possible by reading individual inputs or reading all 16 input values simultaneously.

In addition, IOM11 can function as a link for exchanging data between motor controllers and a PLC.

- 16 inputs (5-30VDC). Galvanically isolated
- 8 outputs (5-30VDC/500mA) Galvanically isolated and short-circuit protected
- Status output for error indication
- Connection of overall Controller via built-in RS485 interface using simple 2-core cable enables long communication lines
- Up to 31 units can be connected to the same interface bus, corresponding to a total of 248 outputs and 496 inputs
- Non-critical power supply, 12-45VDC
- Includes a counter which can count up from 0 to 65535 (max. 5kHz). The counter can be read by the overall Controller and thus control program execution.
- Additional 12 bit analogue output on type IOM11A, with following features: 0-10V/ 0-20mA/4-20mA

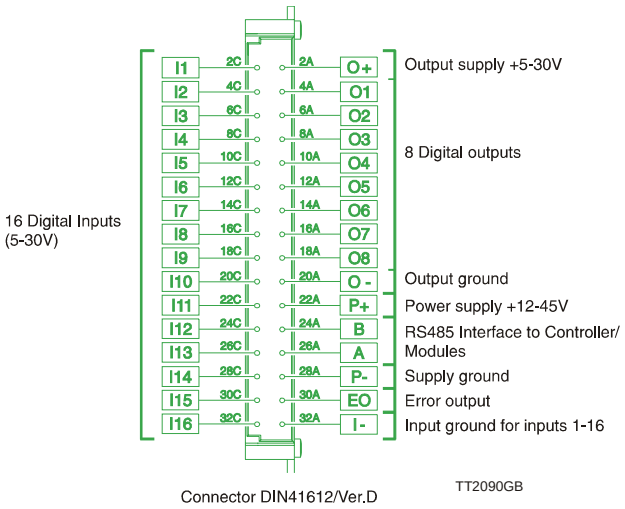
Input / Output Modules IOM11 and IOM11A

LED-indicators



The Module front panel is equipped with a total of 32 LEDs which indicate the status of inputs/outputs, power supply and errors. These LEDs provide continuous information on the operation of the Module, facilitating the set-up of a control system using the Input/Output Module and also greatly aiding troubleshooting.

Connections



All connections to and from the Module are made via the multi-connector on the rear panel. All inputs and outputs are optically isolated from other terminals to ensure immunity from spurious noise. All Module functions are controlled via the RS485 Interface. The Error output is activated if an error occurs which prevents correct operation.

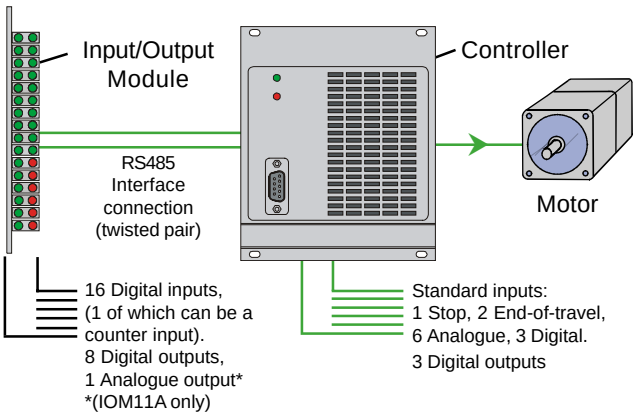
Technical Data

	Min.	Typ.	Max.	Units
Power Supply:				
Supply Voltage	12		45	VDC
Power Consumption		1.6		W
Module Interface (RS485):				
Communication rate		50		kbit/s
Communication length		100		m
User Inputs:				
Input Voltage	0		30	V
User Outputs:				
Voltage supply	6		28	VDC
Current load per output			500	mADC
Analogue Output:*				
Resolution	-		12	Bit
Output voltage (1)	0		10	VDC
Output current (2)	0		20	mADC
Output current (3)	4		20	mADC
Various:				
Operating Temperature	0		50	℃

* IOM11A only. (1), (2), or (3) selected via jumper

System Configuration

The Input/Output Module is used in systems in which there is a need for additional multiple inputs for diverse control signals from sensors etc., and multiple outputs for controlling switches, valves, etc. Connection to the Controller is made via a simple 2-core interface cable.



JVL Industri Elektronik A/S
Blokken 42
DK-3460 Birkerød, Denmark
Tel: +45 4582 4440
Fax: +45 4582 5550
E-mail: jvl@jvl.dk www.jvl.dk