



## WI 1301 & WI 1302 Junction Boxes for Easy Connection



Plug and play junction boxes for standard M8 sensors and devices. Just connect the junction box to your integrated servo or stepper motor and up to 8 local I/O's are available with 24VDC supply. I/O's like limit switch or home sensor can be read or set from ePLC program or via Industrial Ethernet.

### Easy!

Connect sensors directly to your JVL motor.

### Cost saving!

If your motor is with Ethernet use the motor as gateway and save a separate I/O distribution line.

### Fast!

Use sensors with M8 connectors for fast commissioning compared to lead wires.



## Easy Connection of Sensors and other I/O's

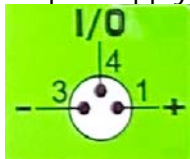
JVL has just launched two new junction boxes for easy connection of sensors and other I/Os using M8-3pin connectors. One junction box is for MAC motor<sup>®</sup> integrated servo motors using the extended Ethernet modules MAC00-Ex41 and the other is for ServoStep<sup>®</sup> integrated stepper motors. You can even connect the WI130x boxes to the advanced PA0190 junction box for added functionality. There are two new types, WI1301 for isolated MAC00-Ex41 modules, and WI1302 for MIS motors.

### MAC motor<sup>®</sup> and extended Ethernet modules – use WI 1301

WI1301-2AM17T01NMB

The junction box for JVL MAC motors.

WI1301 offers easy connection of standard 3-pin M8 connectors. All the 8 I/O's are available on separate M8 connectors, making it extremely easy to integrate and connect JVL MAC motor<sup>®</sup>s into any machine. WI1301 has kept the two isolation groups of the MAC00-Ex41 isolated. When the outputs is used, the output supply O+ can be supplied to one of the OUT+ terminals of WI1301:



When no isolation is required, it is possible to activate the two dip switches inside the MAC00-Ex41 module. Then the internal power is also supplied to the opto isolators thereby eliminating the need for external supply.

When the analogue inputs are needed when using the WI1301, you must activate the two DIP switches inside the MAC00-Ex41 module, since the analogue inputs are used on the other isolation group.

### ServoStep<sup>®</sup> - use WI 1302

WI1302-2AM17T01NMB

The junction box for JVL MIS and JVL MAC motors.

WI1302 is mainly for MIS motors, and offers easy connection of standard 3 pin M8 sensor connectors. All the I/O's are available on each their own M8 connector, making it extremely easy to integrate and connect JVL MAC motors into any machine.

With WI1302, the two isolation groups of the MAC00-Ex41 module is connected, and by activating the two dip switches inside the MAC00-Ex41 module, this box will have full functionality for JVL MAC motors as well, without isolation.

## Functionality in general

The two new WI130x boxes are designed to do the same – make it easy to integrate any standard equipment with JVL motor.

The junction box can be connected to JVL motors with the 17 pin multifunction connector, making it extremely easy to use the digital in and outputs and analogue inputs as well, with standard equipment using 3 pin M8 connectors.

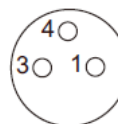
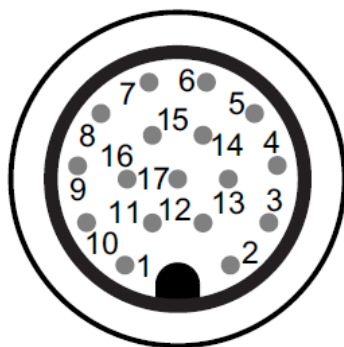
The box is IP67 rated, and it is therefore possible to mount it in almost any environment.

## Details

- M12 17 pin male connector for the connection to MAC motor<sup>®</sup> or ServoStep<sup>®</sup>.
- 1 meter shielded cable
- 8 x M8 3 pin female connectors
- IP67 rated
- Built in LED's for easy monitoring of I/O state
- Built in power LED
- Multiple mounting options
- Full part numbers:  
WI1301-2AM17T01NMB  
WI1302-2AM17T01NMB

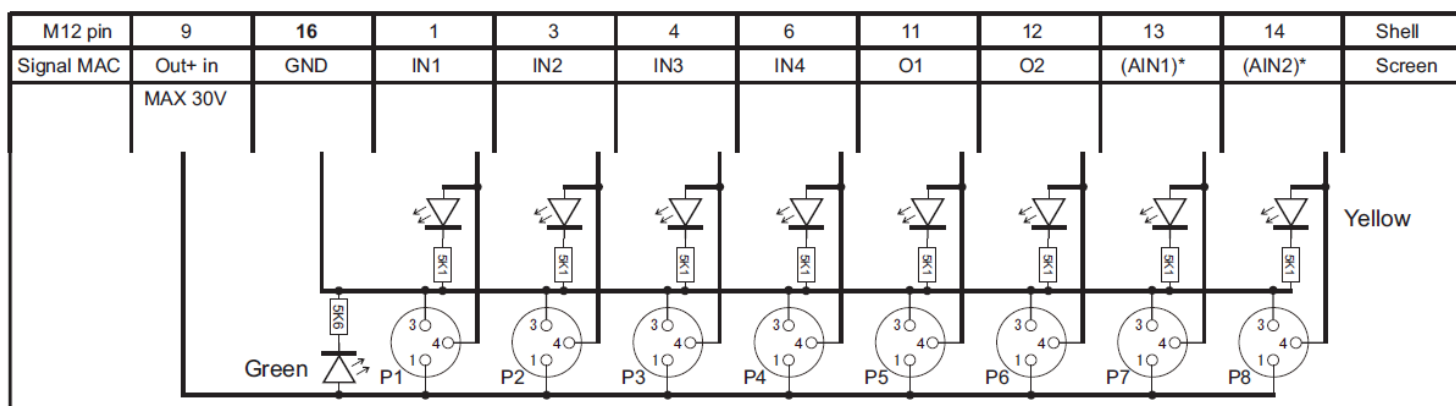


**Connections**



Male M12 17 pins      Female M8 3 pins  
 (A-Coding)

**WI 1301 – MAC motors:**



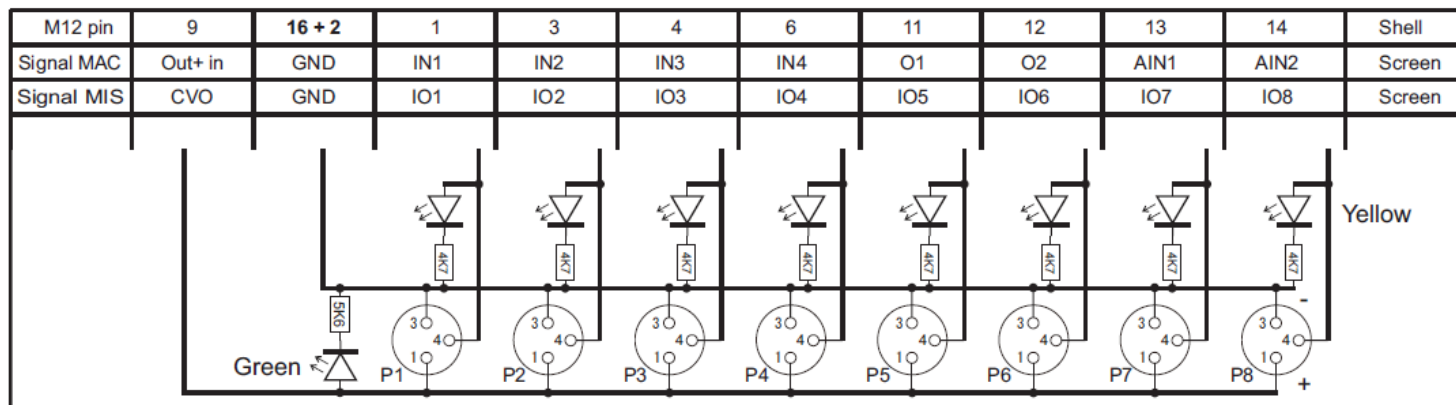
MAC00-Ex41 Isolated I/O's only

\* Connect supply to P7 or P8:

Pin 1: Out+ (MAX 30Vdc) Pin 3: IO- (GND for Isolation Group 2)

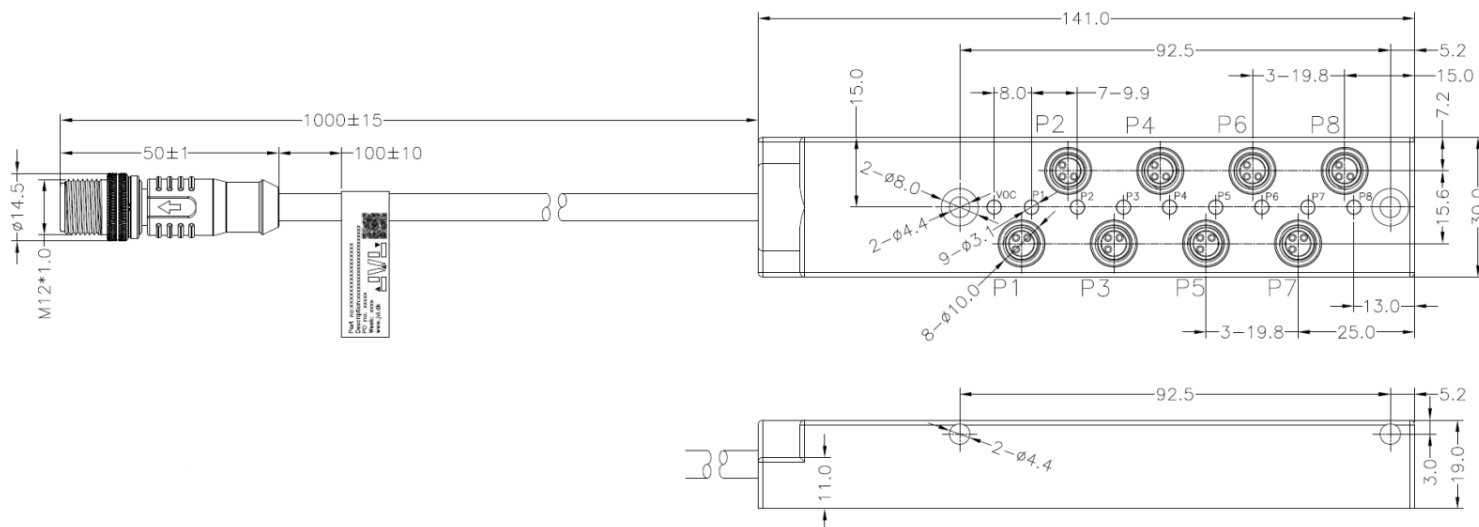
AIN1/AIN2 refer to Isolation Group 1 on MAC00-Ex41, and are not isolated from ground. See user manual.

**WI 1302 – MIS motors:**





## Dimensions



[Read more about Ethernet for Integrated Stepper Motors](#)  
[Read more about Ethernet for Integrated Servo Motors](#)

For further information, please contact:

JVL A/S, Bregnerødvej 127, DK-3460 Birkerød, Denmark, Tel. +45 4582 4440, E-mail: [jvl@jvl.dk](mailto:jvl@jvl.dk),  
 web: [www.jvl.dk](http://www.jvl.dk)