

## FEATURES OF NODE Model NSA10

### **Model NSA 10**

This system makes it possible to deliver power on a load, such as the water pump, connected to its output, but also to protect it against any short circuits or abnormal overloads.

This node is set to detect levels with discrete sensors (with 4 levels) and two overflow sensors.

The device can be controlled to enable/disable the flow of energy towards the pump in two ways: locally, through a normal switch (on/off), and remotely, via the control unit. The control unit displays the status (on/off) of the device and the status of its protections and level sensors.

### Inputs

The device, as shown in Fig. 1, mainly comprises three types of connectors. Connector J1, the device input; connector J4 with six poles usually used to detect the levels of a tank with a discrete four-level sensor and connector J5 with 4 poles which is used to detect the overflow signal from two separate tanks.

### Outputs

The output comprises connector J2, as shown in Fig. 1 (on certain models connector J3 may not be fitted); connector J2 will have the power output and two contacts (Wire A and Wire B) for connecting the control switch

### **Electrical Specifications**

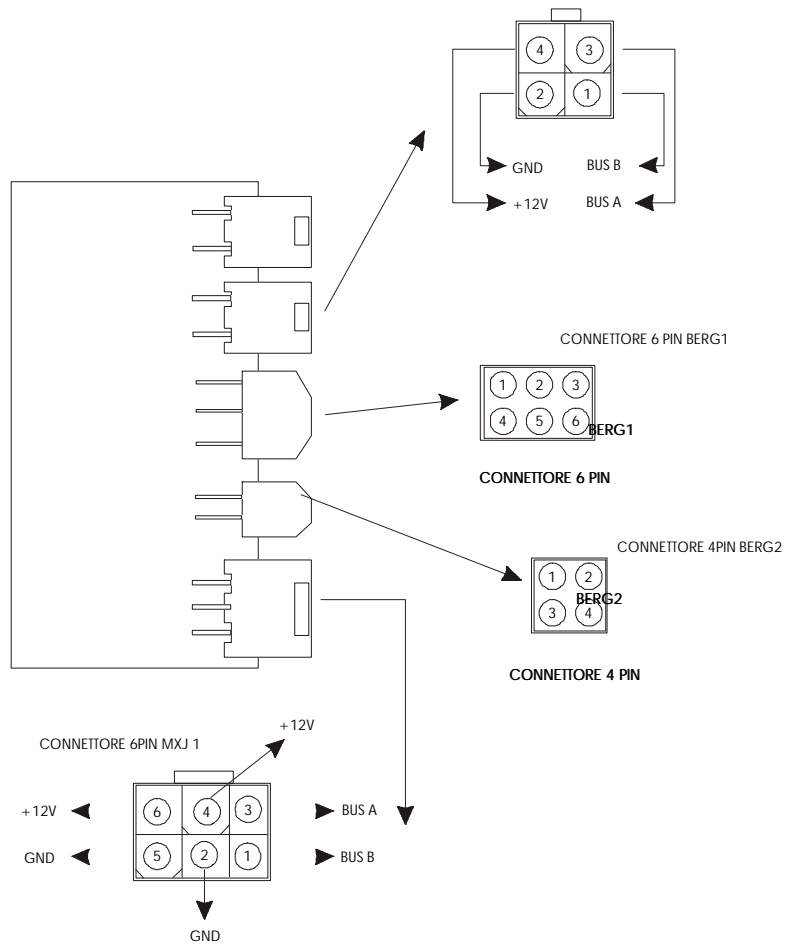
The electrical specifications of the device are the following:

- Supply voltage 12 V
- J1 6-pole connector input, capacity xx A
- J2, J3 the two possible outputs controlled respectively by the corresponding switch connected to contacts CON\_01 and CON\_02 respectively protected by a 3 A SMART fuse
- J4, J5 the two connectors for the level sensors.

### **Connectors**

The connectors used on the device are of three types:

- J1 Molex "*mini-fit Jr*" code **MLX5569-04** with contacts arranged as follows (also see Fig. 2)
  - 1 - Bus B
  - 2 - Ground
  - 3 - Bus A
  - 4 - Positive +12 V
- J2, J3 Molex "*mini-fit Jr*" code **MLX5569-04** with contacts arranged as follows (also see Fig.1)
  - 1 - Wire\_01
  - 2 - Ground
  - 3 - Wire\_02
  - 4 - Positive +12 V



**Fig. 1 "Node & connectors"**

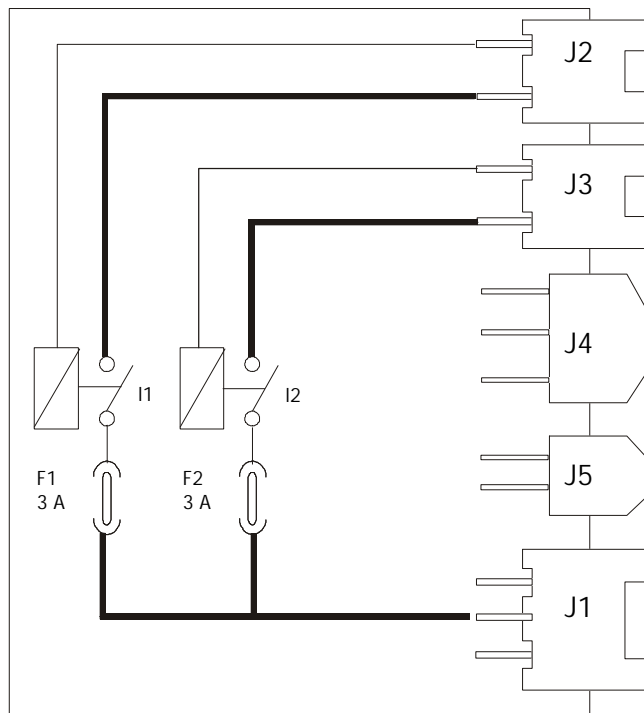


Fig. 2 "Node logic layout"