SPECIFICATIONS AND OPERATION OF POWER HUB PH300S2

Model PH300S2

The power-hub, also known as distributor, offers the possibility not only to distribute energy and information to the various devices connected on its outputs, but also to protect them against short circuits or abnormal overloads.
The distributor can be controlled to enable/disable the flow of energy to the outputs in two ways: locally through a button (on/off) directly connected to the distributor, or by remote control, through the control unit with a special command. The control unit also displays the status of the distributor electrical protections.

Inputs

The device mainly comprises three types of connectors. Connector J1, Fig. 1, normally considered the device input, has the same terminals, i.e. shared, with connectors J2 and J3 which are considered purely as simple feedthroughs.
The 2-pole connector J4 is usually used to connect the output control button.

Outputs

The device has a set of connectors for the outputs (from J5 to J12) logically formed of 2 subgroups that can be controlled independently[1], the first from J5 to J8 and the second from J9 to J12

Electrical Specifications

The electrical specifications of the device shown in Fig. 2 are the following:

- Supply voltage 12 V
- J1, J2 4-pole feedthrough connector with 30 A capacity
- J3 4-pole feedthrough connector with 3 A capacity protected by a 5A self-resetting fuse
- J5..J8 four outputs protected in pairs by 7A self-resetting fuses (F4 and F5); the group of four connectors is supplied by a line with a 10 A SMART protection (F2);
- J9..J12 four outputs protected in pairs by 7A self-resetting fuses (F6 and F7); the group of four connectors is supplied by a line with a 10 A SMART protection (F3).
- J4 control connector for sectioning switches I1 and I2

Connectors

The connectors used on the device are of three types (also see Fig. 2)

- J1..J2 Molex *"caimano "* code **mlx94213-2014** with the contacts arranged as follows (also see Fig. 1)

  1 - Bus A
  2 - Positive +12 V
  3 - Bus B
- J12 Molex *"mini-fit Jr"* code **MLX5569-04** with the contacts arranged as follows (also see Fig. 1)

  1 - Bus B

[1] In the Power Hub model 300 S2 the two outputs are activated/deactivated in parallel

2 - Ground
3 - Bus A
4 - Positive +12 V

- J12 Molex *"mini-fit Jr"* code **MLX5569-02A2** with the contacts arranged as follows (also see Fig. 1)
  1 – Pole A-Switch.
  2 – Pole B-Switch.

Conformity

The device meets the requirements of European Union Directive: 89/336 EMC Electromagnetic Compatibility, 73/23 and 93/68 EEC Safety of Electrical Products

Advice

Install the device in a dry and sufficiently ventilated place.
NB. If the device control "button" is not connected to connector J4 as standard it can be inserted at any time to be able to control the device locally and remotely.

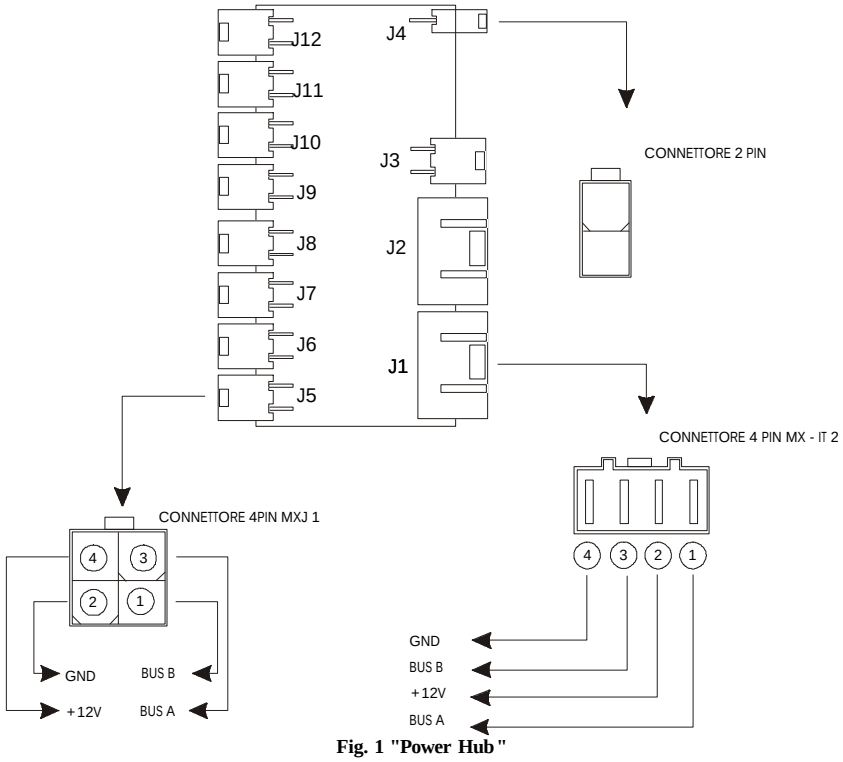

Fig. 1 "Power Hub"

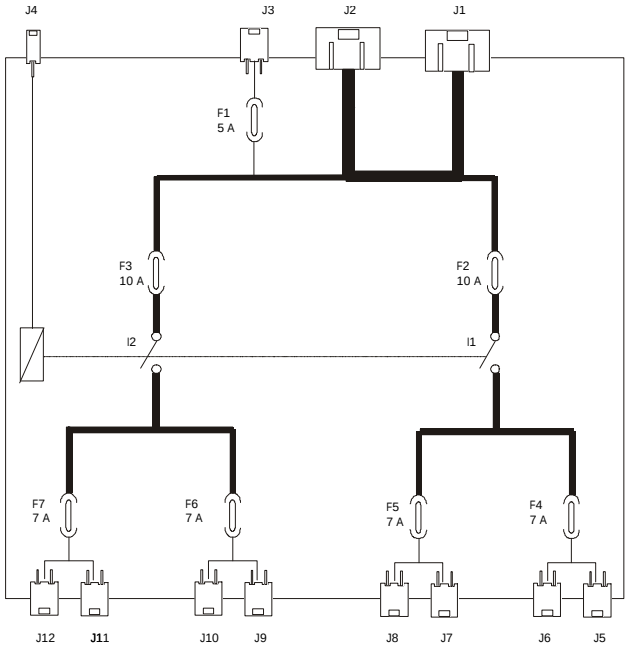

Fig. 2 " Power Hub Logic Layout"