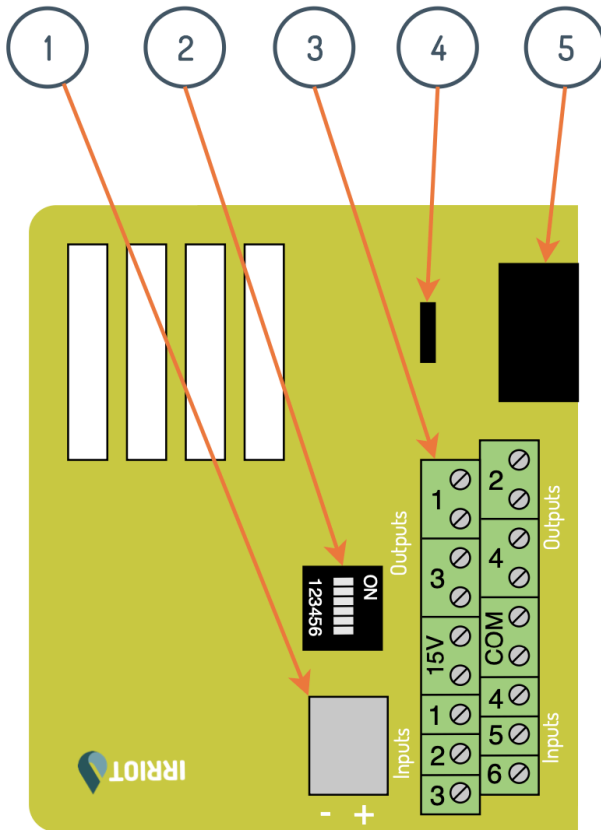


## Extension board MPE6-4



1. **12 VDC** Backup Battery port
2. **DIP** Switch
3. **Output and Input** ports
4. **Slot** selection Jumper
5. **Bus** Connector port

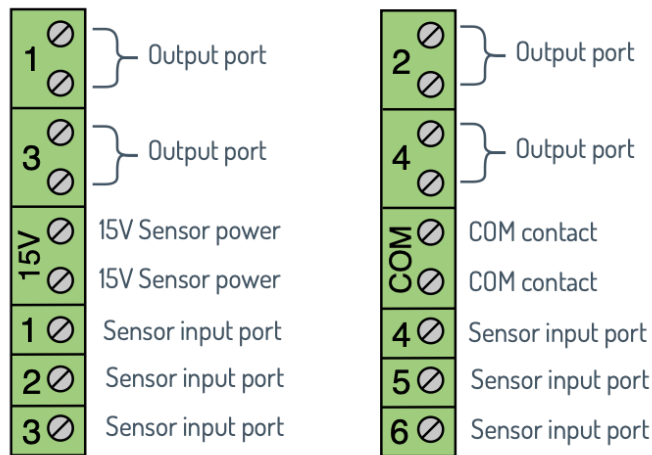
### Technical Specifications:

Switching Voltage: *0 - 24VAC*  
 Switching Current: *0 - 6A*  
 Operating temperature range: *-20 to +60°C (-4 to 140°F)*

Optionally, up to 2 MPE6-4 (or RE-8) Extension Boards can be installed and connected directly to the **Controller (Base Unit)**. The board can be used to control various devices, which comply with Technical Specifications above, e.g. pumps, filters, fertilizer mixers, 24VAC valves with an *optional 24VAC transformer*, etc. *Please consult with an electrician on how to connect 24VAC valves with a transformer.*

In addition to the **4 relay outputs**, MPE6-4 extension features **6 sensor inputs**. The following sensor types are supported:

- 0-20mA current loop;
- 4-20mA current loop;
- Counter (e.g. flow meters or rain gauges);
- Switch type (e.g. rain sensor).

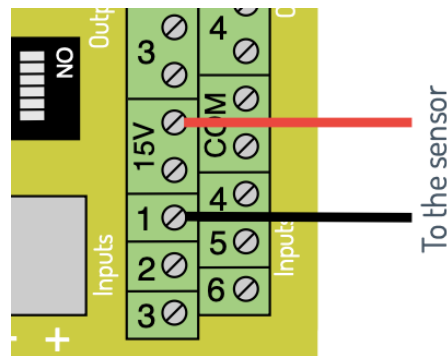


IRRIOT MPE6-4 Output Ports, 15V Sensor Power, COM contacts, Sensor Input ports

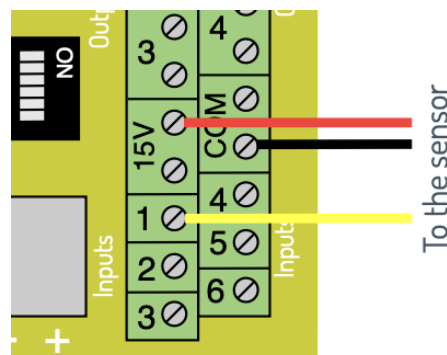
## Current Loop Sensor Wiring

The wiring of the current loop sensor depends on whether it has the **3 or 2 wire** interface.

**2 Wire:** connect the red wire to one of the **15V** sensor power contacts, connect the black wire to one of the sensor input ports. Notice that the **DIP switch** for the corresponding input should be set to **ON position**:

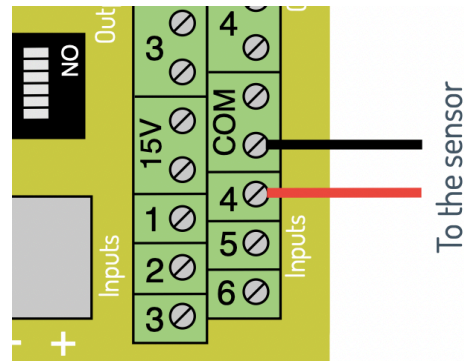


**3 Wire:** connect the red wire to one of the **15V** sensor power contacts, connect the black wire to one of the **COM** contacts, connect the sensor output wire to one of the input ports. Notice that the **DIP switch** for the corresponding input should be set to **ON position**:



## Counter and Switch Sensor Wiring

The **Counter** and **Switch** sensors are wired between one of the sensor input contacts and one of the COM contacts. Notice that the **DIP switch** for the corresponding input should be set to **OFF** position:



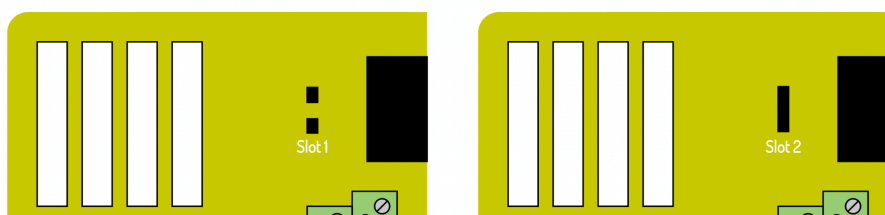
## 12VDC Battery port

The same board is used to provide a **12VDC** Car/Boat Battery or Solar Panel kit with Battery to power the Controller where AC power grid is not available. **Pay attention to the polarity, when connecting DC power.**

## Bus connector

Bus connector port is used to connect the extension board to the controller (and optionally another extension board) with a ribbon cable provided.

## Slot selection Jumper



The Jumper switch is used to distinguish **Slot 1** and **Slot 2** used in the Controller, it's important when using 2 boards in one controller.

Jumper **Open** - Slot 1  
 Jumper **Closed** - Slot 2

**Attention!!!** There should be **no high-voltage power** (above 24VAC) connected directly to the board as it may destroy the Extension Board and the Controller, thus void the warranty. If there's a need to use high-voltage, like 110-250VAC, then the extension board should operate an external relay or contactor rated for required power. All high-voltage or high-current jobs must be conducted only by a certified electrician.