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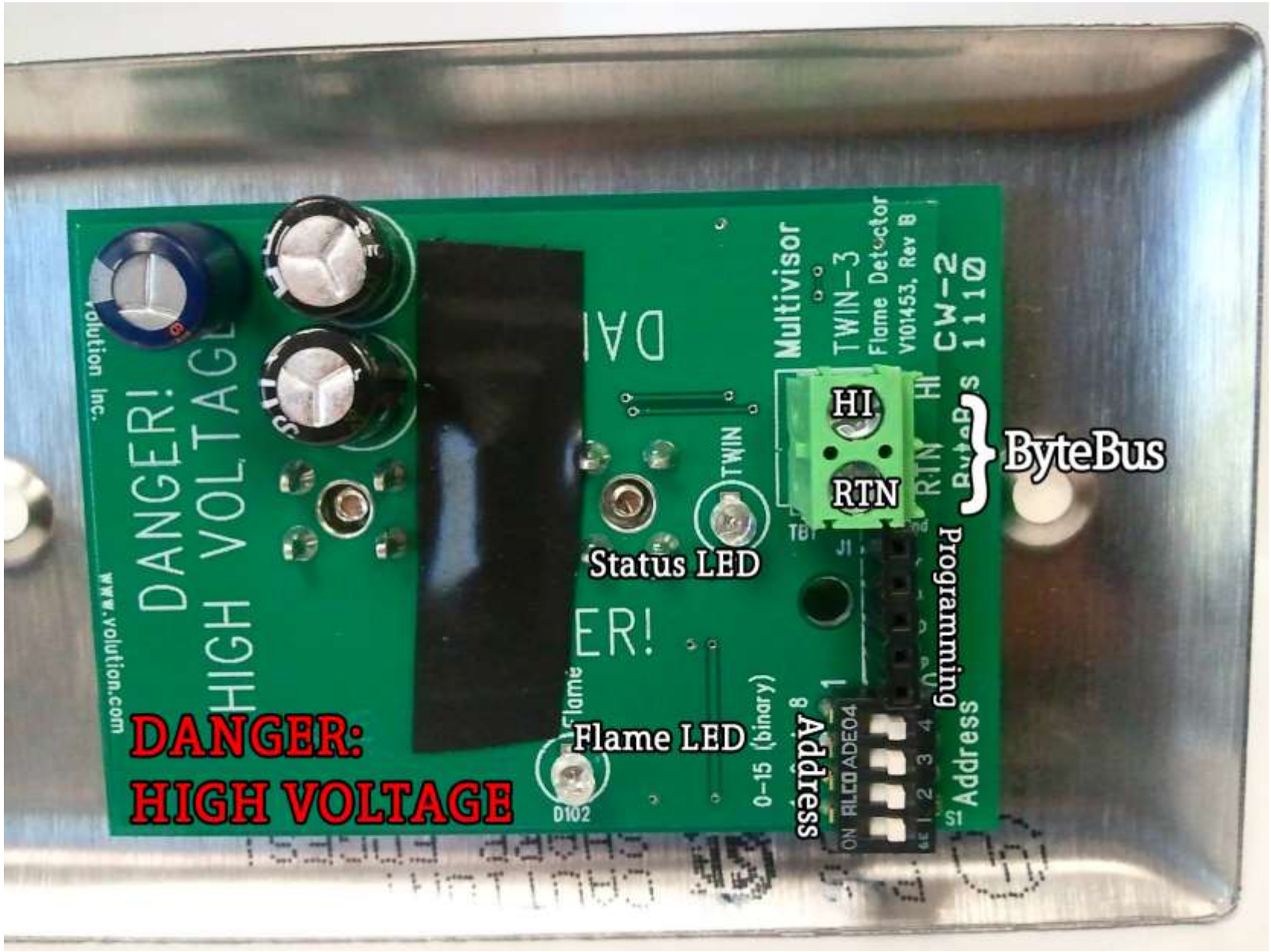
TWIN 3 Wiring



TWIN-3 Wiring List:

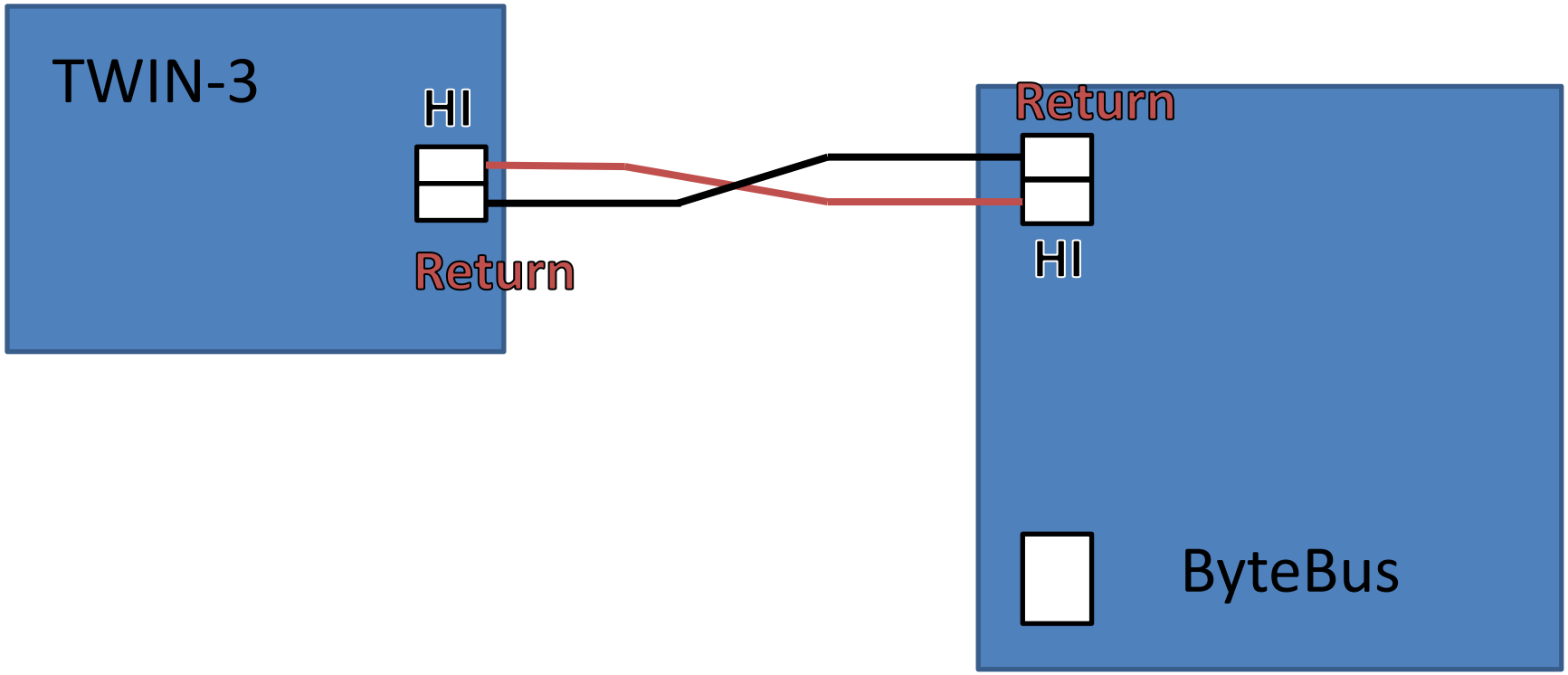
TWIN status LED

Flame sensor status LED

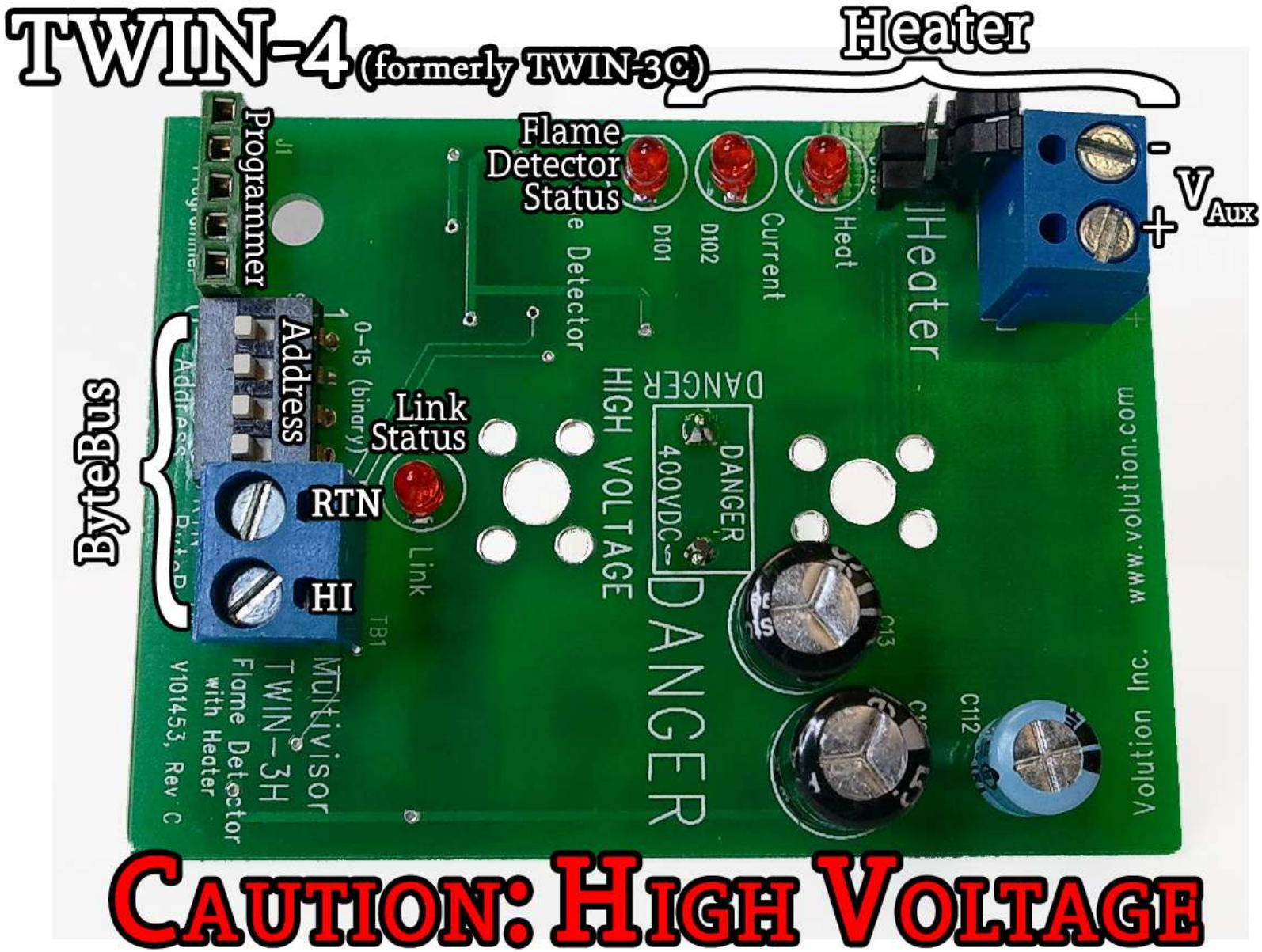
The TWIN-3 has a High and Return channel for communication between the TWIN and the ByteBus

ByteBus Address switch, must be given a unique ID (binary) within its ByteBus channel

Programming interface (SIP)


TWIN-3
HI
Return
Return
HI
ByteBus

TWIN 4 Wiring



Heater

- A status LED for the current
- A status LED for the heater
- A two pin connection for the heater
- V auxiliary for powering the heater

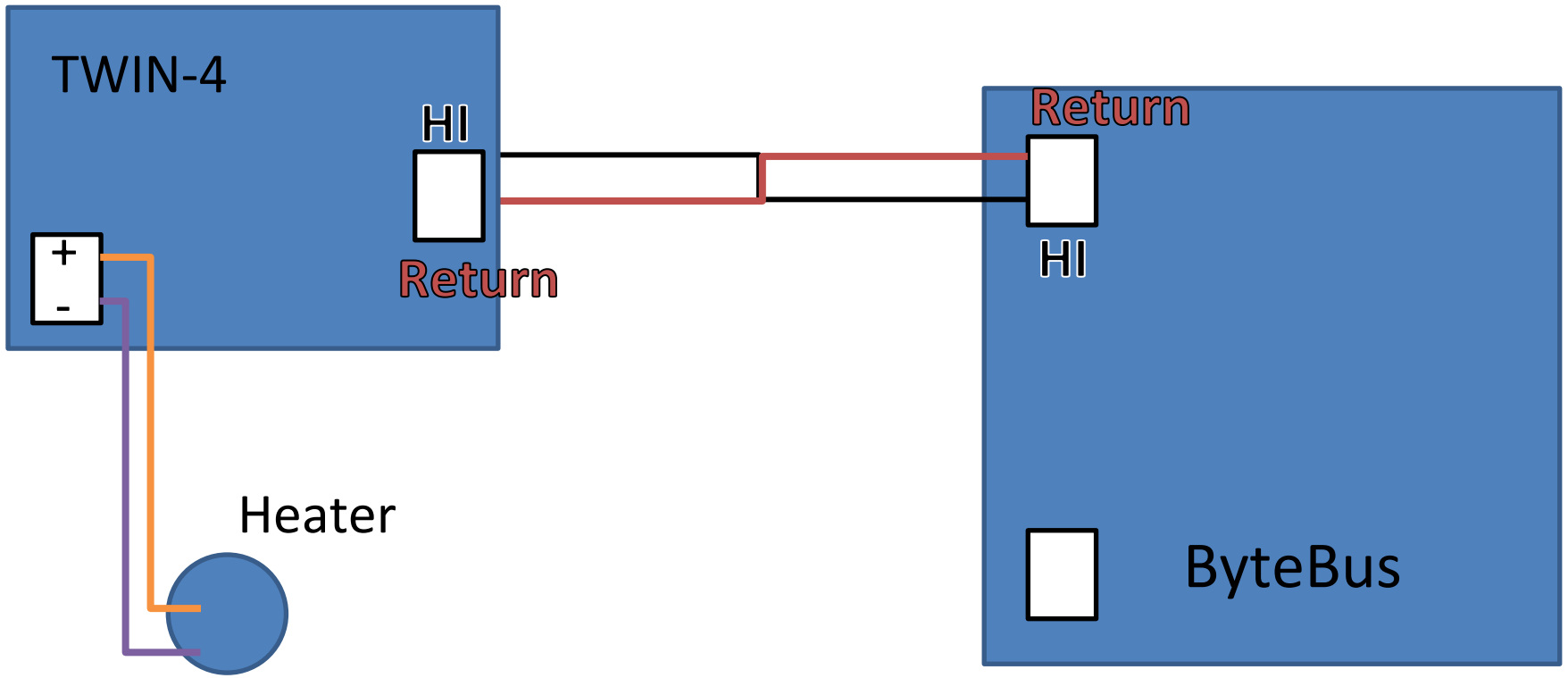
Flame detector LED

CAUTION: HIGH VOLTAGE

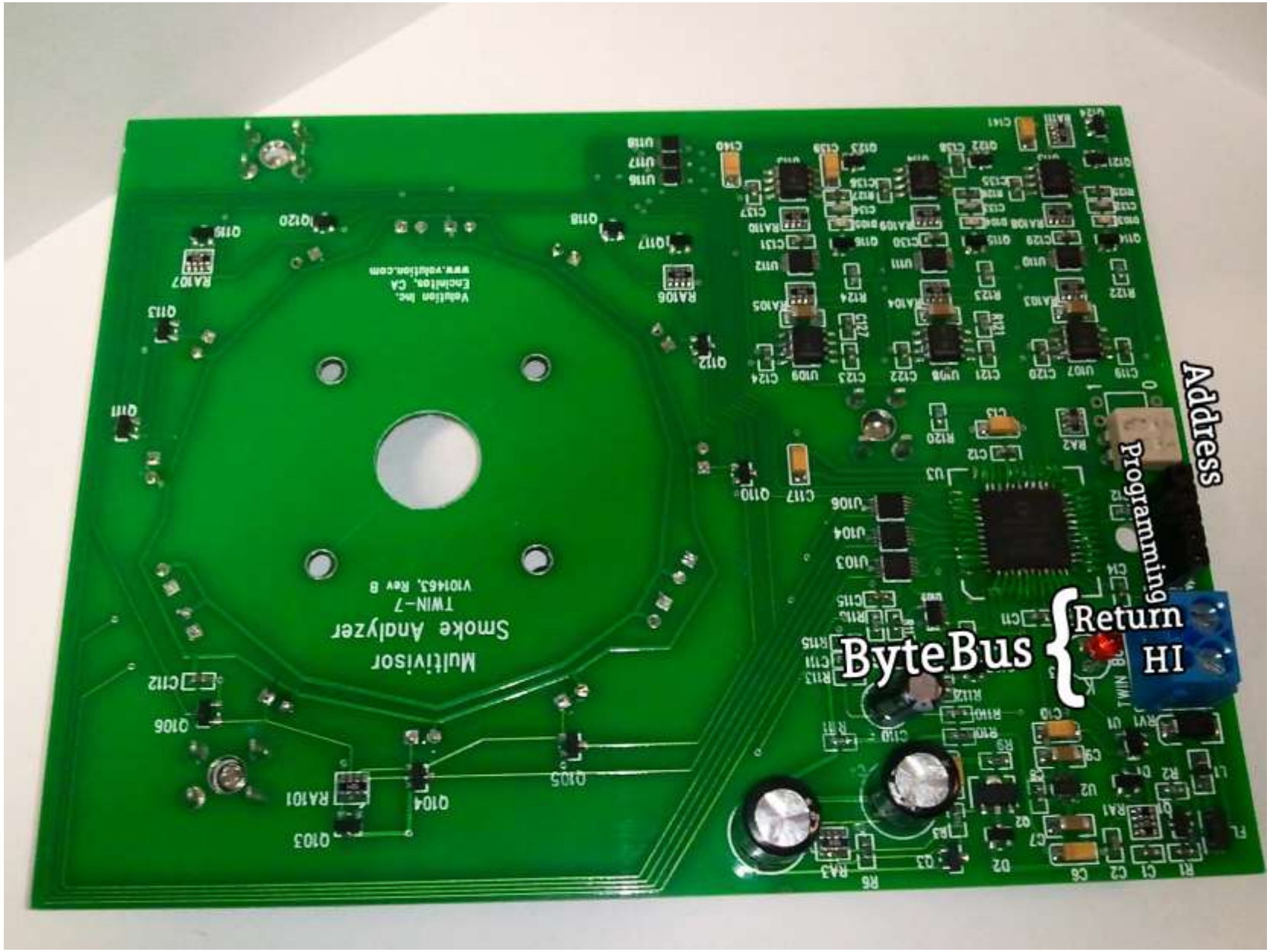
The TWIN-4 has a High and Return channel for communication between the TWIN and the ByteBus

ByteBus Address switch, must be given a unique ID (binary) within its ByteBus channel

Programming interface (SIP)


TWIN-4
HI
Return
+
-
Heater
Return
HI
ByteBus

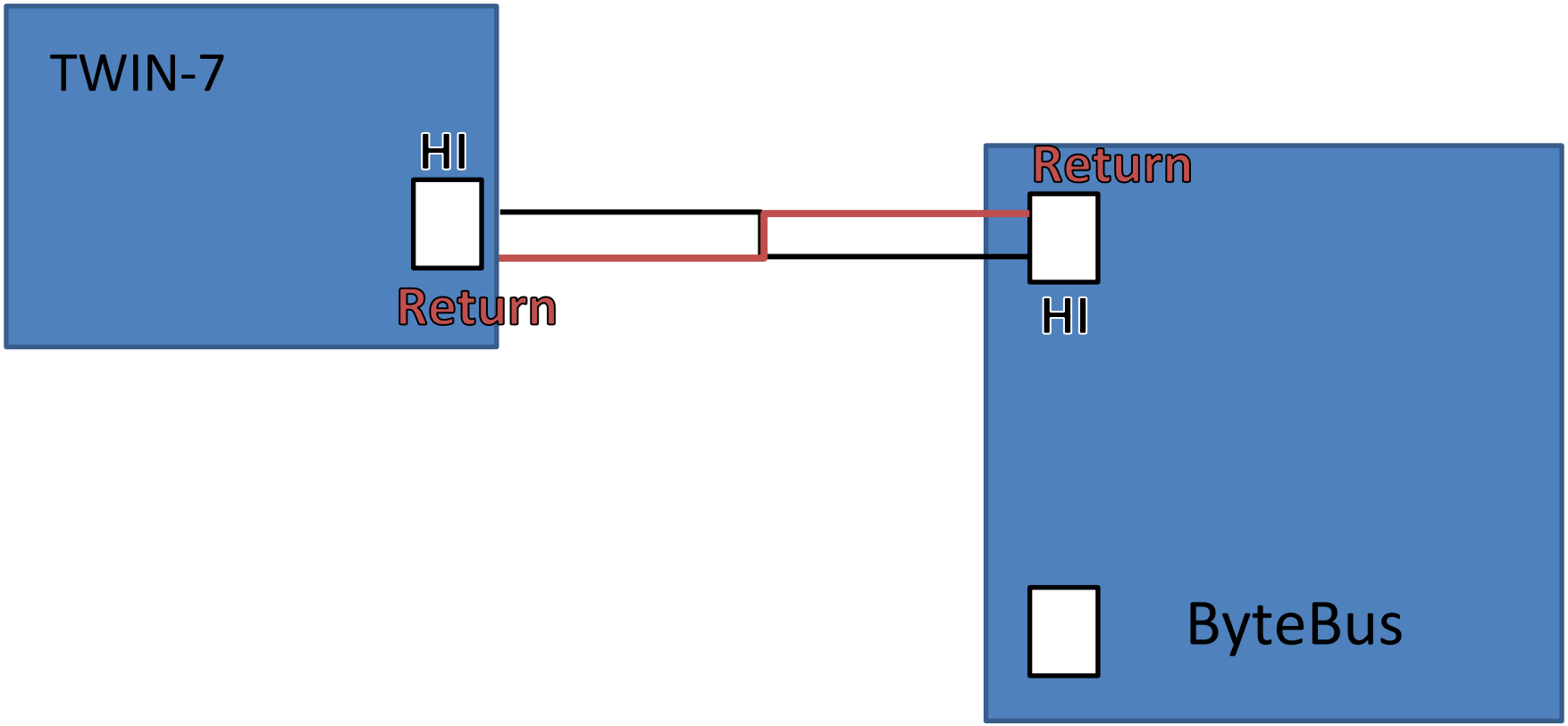
TWIN 7 Wiring



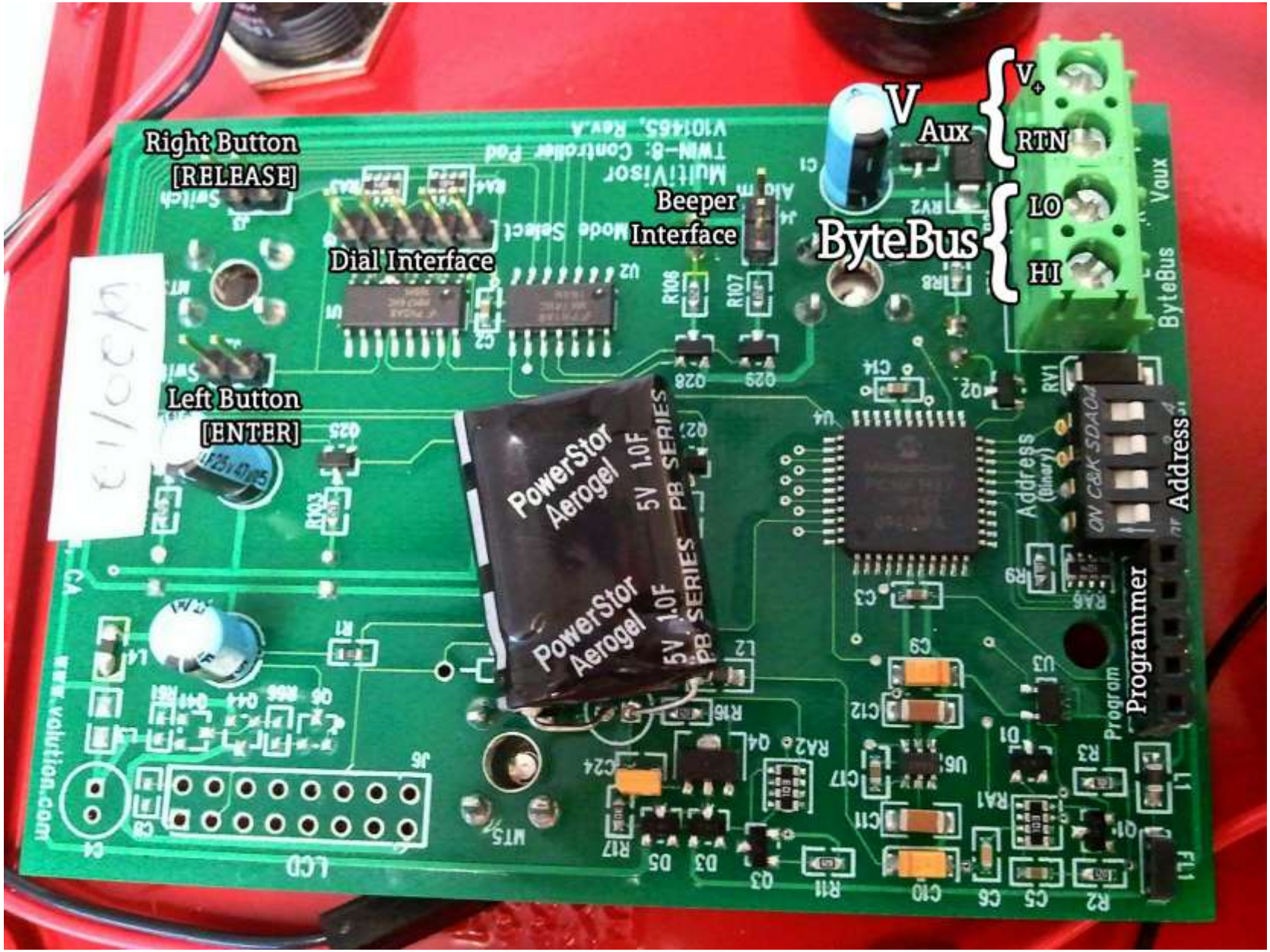
The TWIN-7 has a High and Return channel for communication between the TWIN and the ByteBus

Programming interface (SIP)

Address switch, must be given a unique id on the line


TWIN-7
HI
Return
Return
HI
ByteBus

TWIN 8 Wiring



For orientation purposes, the board is referenced with the terminal block in the upper right

- The top-left set of two pins are used to connect the RELEASE (right) button
- The middle-left set of two pins (below the previous pins) are used to connect the ENTER (left) button
- The top-right two pins are used for the beeper
- The five pins in between the top left and top right sets of pins are used for connecting the MODE SELECTION switch to the TWIN-8

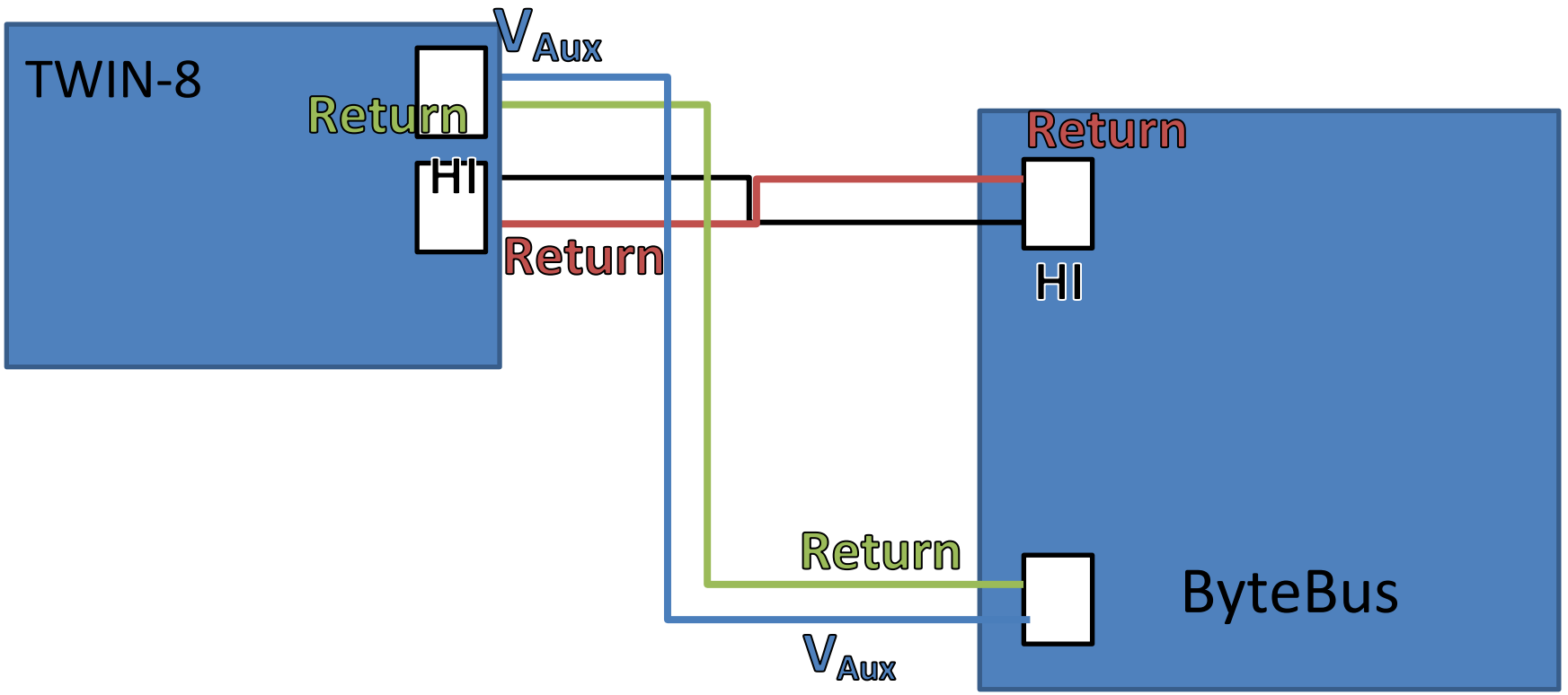
Beeper/Buttons/Dial Config

- The MODE SELECTION switch has a 5 wire output; the black wire is the ground
- The ground wire (black) from the mode switch is plugged in so that it is connected to the furthest left pin of its corresponding pin set
- Both the buttons and the beeper have two wire outputs that have a ground wire (black) and signal wire (red)
- The button connectors should be plugged in with the ground wire (black) on the right (same as the mode switch)
- The beeper should be connected with the ground wire (black) on the bottom

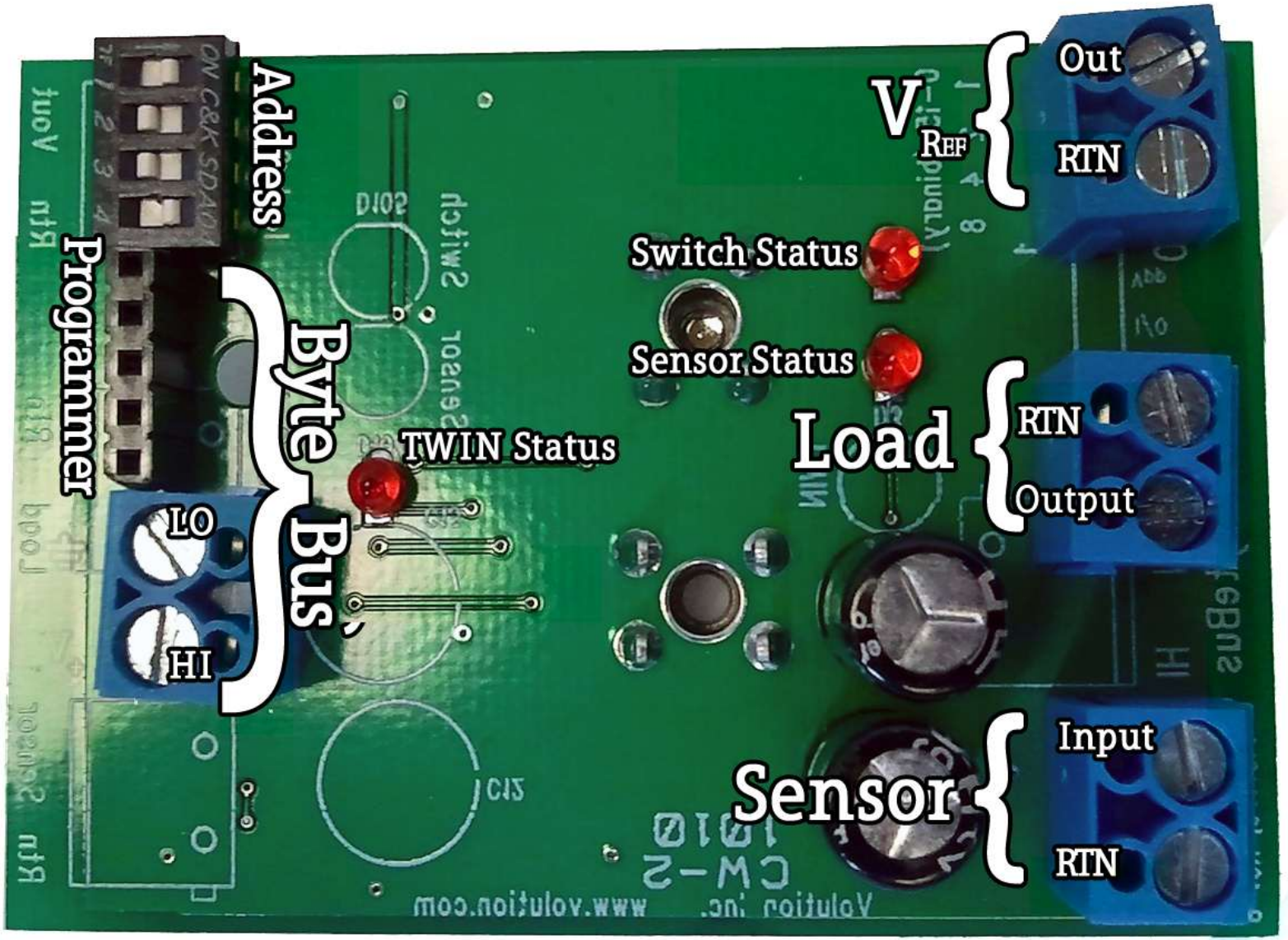
The TWIN-8 has a High and Return channel for communication between the TWIN and the ByteBus

ByteBus Address switch, must be given a unique ID (binary) within its ByteBus channel

Programming interface (SIP)


TWIN-8
Return
HI
Return
V_{Aux}
Return
HI
Return
V_{Aux}
ByteBus

TWIN 9 Wiring



Terminal Blocks:

- Voltage Reference out and return
- Load driver return and output
- Sensor input and return

Switch Status LED

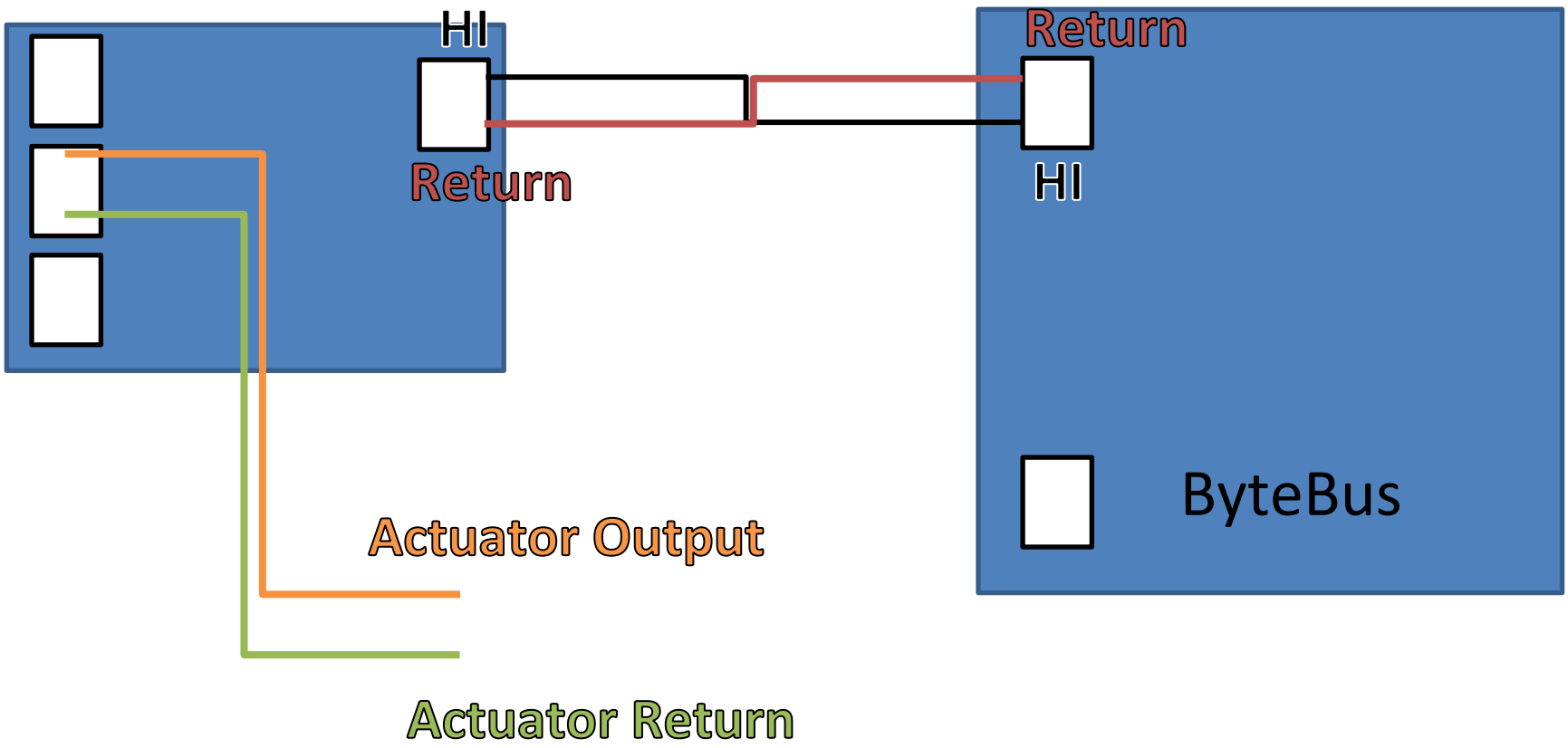
Sensor Status LED

TWIN Status LED

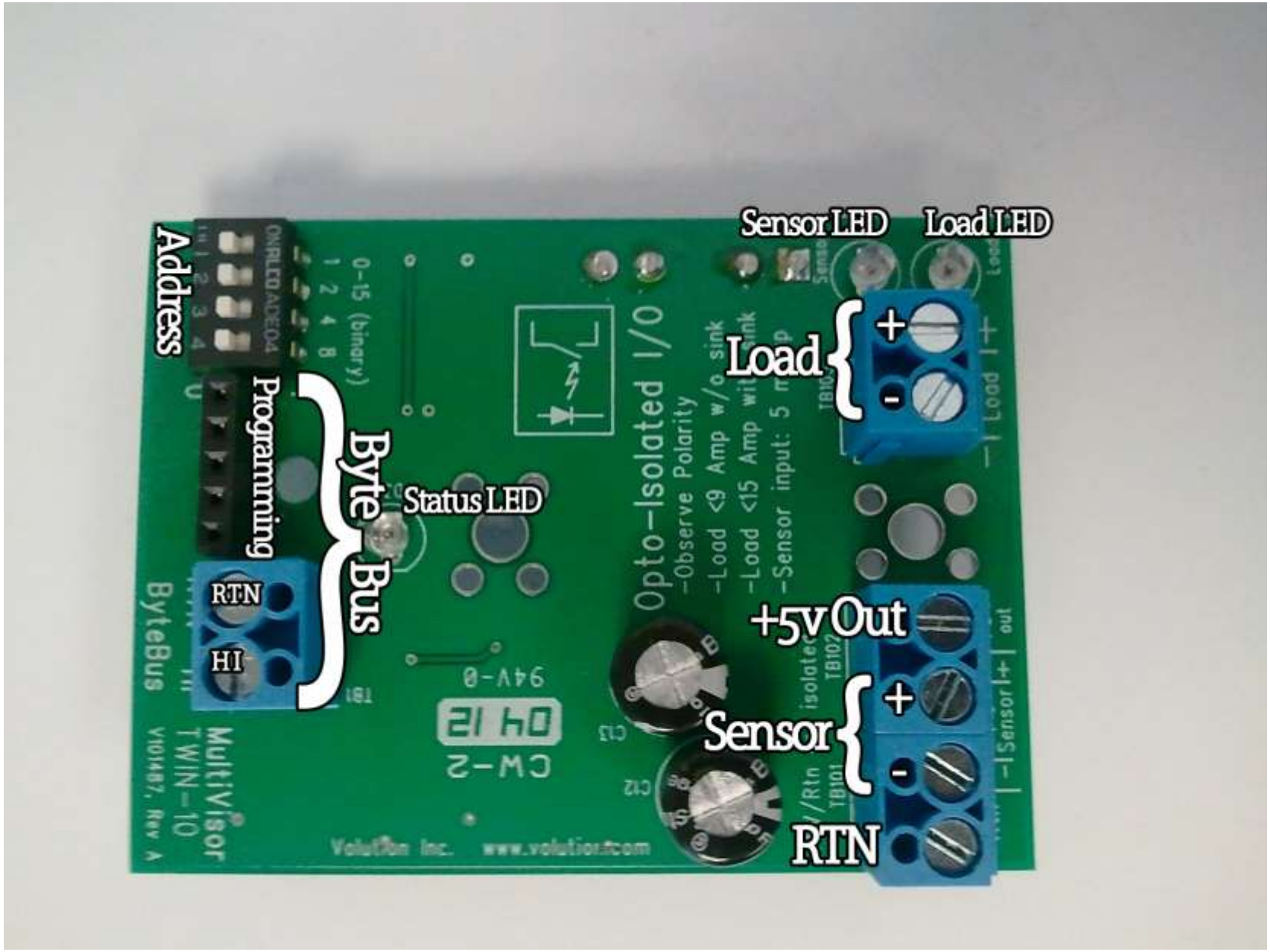
The TWIN-9 has a High and Return channel for communication between the TWIN and the ByteBus

ByteBus Address switch, must be given a unique ID (binary) within its ByteBus channel

Programming interface (SIP)


HI
Return
Return
HI
ByteBus
Actuator Output
Actuator Return

TWIN 10 Wiring



TWIN-10 Wiring guide:

Sensor Status LED

Load Status LED

TWIN Status LED

Terminal Blocks:

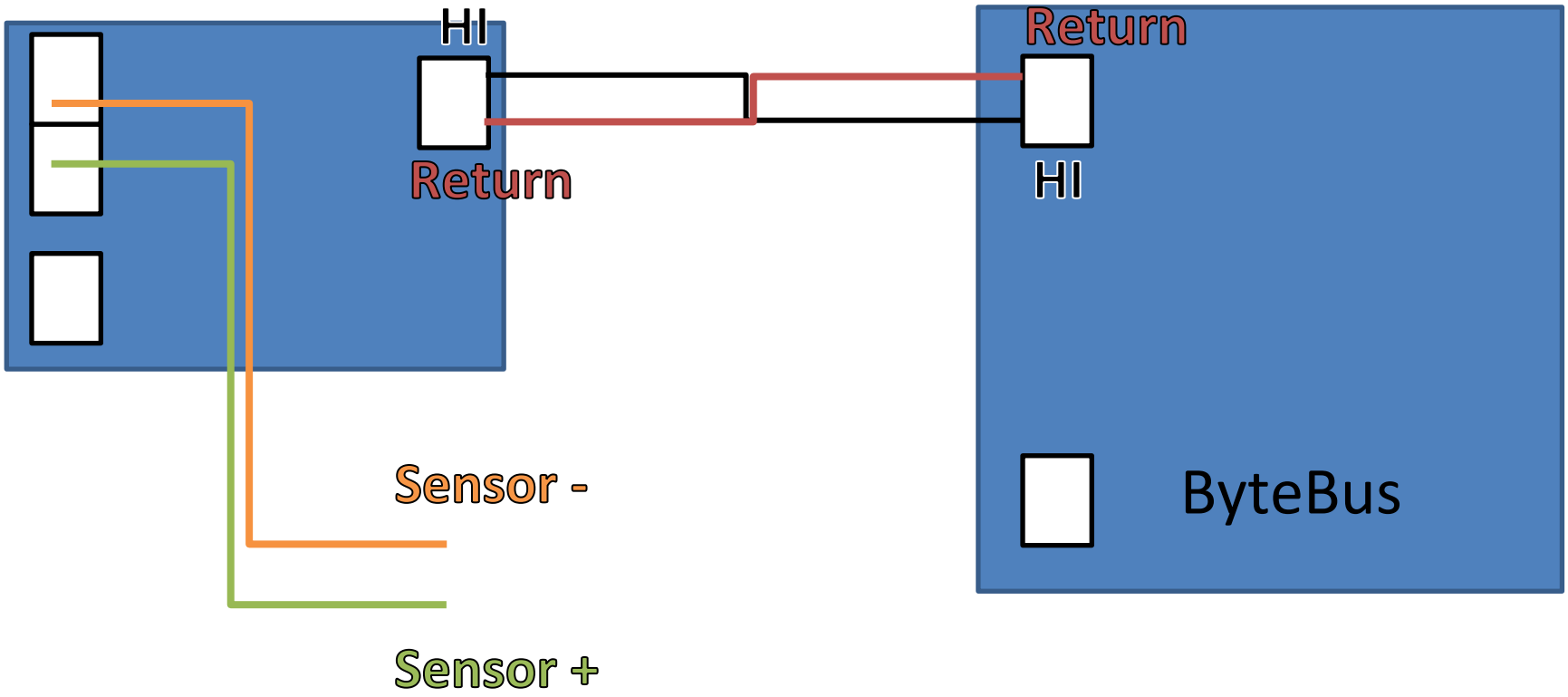
- Load +/-

- +5v Out
- Sensor +/-
- Return (for +5v)

The TWIN-10 has a High and Return channel for communication between the TWIN and the ByteBus

ByteBus Address switch, must be given a unique ID (binary) within its ByteBus channel

Programming interface (SIP)


HI
Return
Return
HI
Sensor -
Sensor +
ByteBus

ByteBus Settings

Switch #SW2: Reset

Switch #SW2: Delay Times (seconds)

- Bit 1
- Bit 2

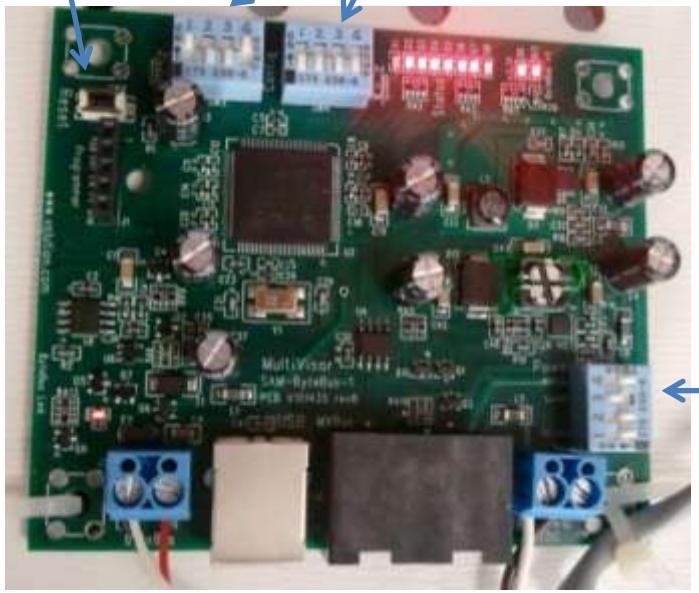
} Sensor Validation Delay

- Bit 3
- Bit 4

} Actuator Override Delay

Sensor: Bit 1 & Bit 2 Actuator: Bit 3 & Bit 4	00	01	10	11
Sensor Validation Delay (sec)	1	4	7	10
Actuator Override Delay (sec)	5	15	25	35

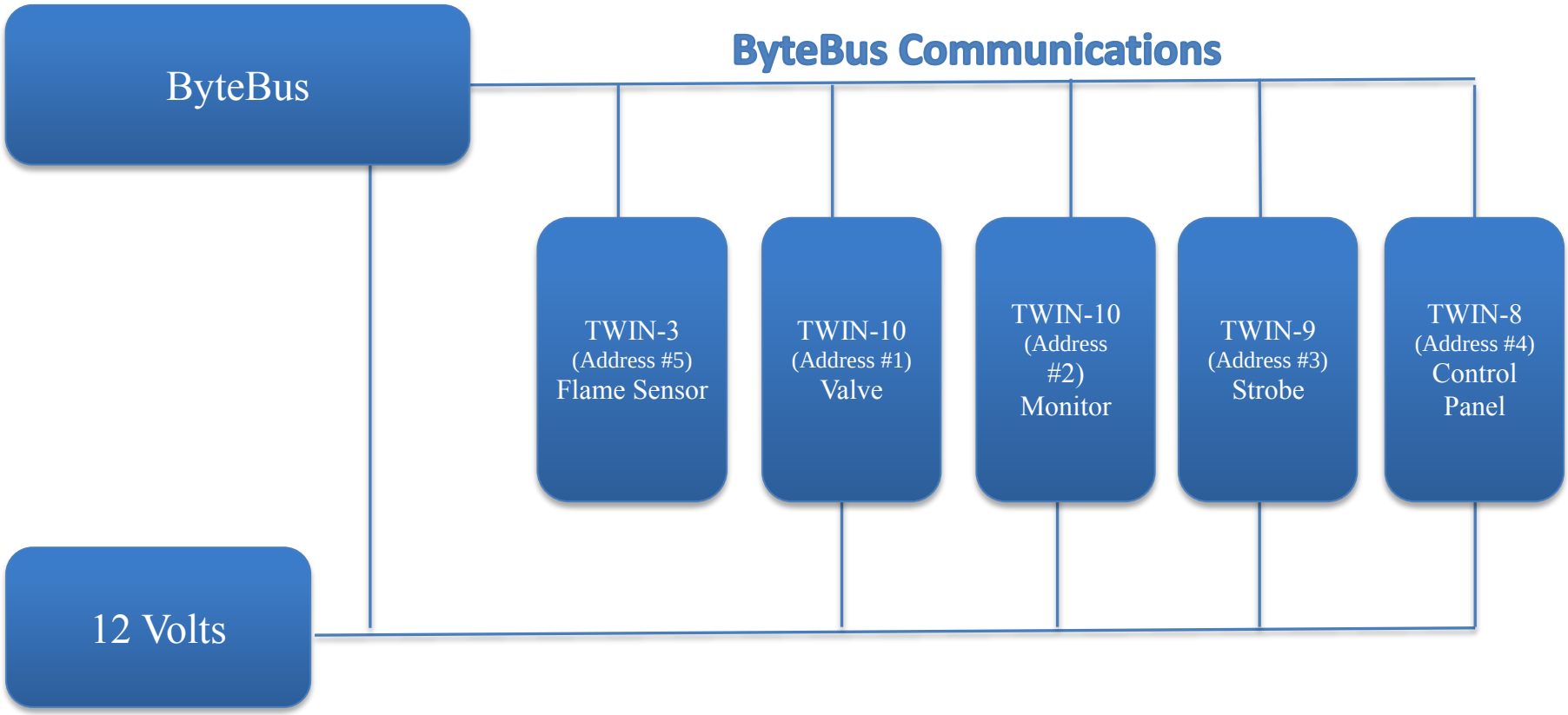
Switch #SW4: Not used



Switch #SW1: Power Source

- Bit 1 = OFF
- Bit 2 = OFF
- Bit 3 = ON
- Bit 4 = OFF

Cabling Diagram



Specific TWIN wiring is given on Volution's website. Call for instructions.