



FUNCTION

The Input/Output Module, model UMI, is used to control UPB devices via scene-links triggered by low-voltage inputs (e.g., a contact closure, voltage, current, doorbell, telephone ring, etc.), and to activate low-voltage outputs based on UPB scene-links or commands. The module accepts up to 3 inputs and provides 2 outputs.

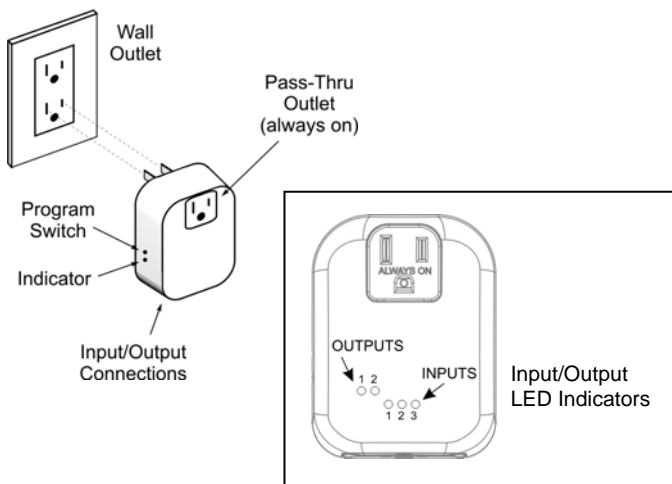


CAUTION: Do not connect voltages higher than 30Vrms/DC to the input/output terminals, other than telephone input #3, to prevent a shock hazard.

INSTALLATION

The Input/Output Module is designed for indoor use with low-voltage sensors and actuators. To install the UMI module:

1. Locate a wall outlet near the wiring to be connected.
2. Connect wires from the device(s) to be monitored or controlled to the terminal block located on the **bottom** of the module. See reverse side for examples of applications and proper wiring diagrams. To make connections, use a small tool (ball-point pen) to depress the orange release lever above the wire hole until the wire can be inserted or removed.
3. Plug the UMI module into the wall outlet (see illustration below).
4. If desired, another device can be plugged into the socket on the **front** of the module, which is always powered.



IMPORTANT SAFETY INSTRUCTIONS

When using electrical products, basic safety precautions should always be followed, including the following:

1. READ AND FOLLOW ALL SAFETY INSTRUCTIONS.
2. Keep away from water. If product comes into contact with water or other liquid, unplug immediately.
3. Never use products that have been dropped or damaged.
4. Do not use this product outdoors.
5. Do not use this product for other than its intended use.
6. Do not connect multiple devices that, when combined, exceed the maximum load ratings of the product.
7. To avoid risk of fire, burns, personal injury and electric shock, install this product out of reach of small children.
8. Do not cover the product with any material when in use.
9. This product uses polarized plugs and sockets (one blade is wider than the other) to reduce the risk of electric shock. These plugs and sockets fit only one way. If they do not fit, consult a technician. Do not use with an extension cord unless plugs can be fully inserted. Do not alter plugs.
10. SAVE THESE INSTRUCTIONS.

CONFIGURATION

1. The UMI-32SP is preconfigured for use with the SimplySmart™ Series of Pre-Configured Kits and Accessories. Reconfiguration of the UMI-32SP or UMI-32 requires UPB setup/configuration software, called [UPStart](#) and a model [UMC](#) Computer Interface Module.
2. When configuring a UPB system, it may be necessary to place the UMI in SETUP mode. To do this, press the Program Switch (see illustration) five times rapidly using a non-metallic tool (e.g. ink pen or toothpick). The indicator will continuously blink GREEN when the unit is in SETUP mode. To exit SETUP mode, press the Program Switch once or wait five minutes.



CAUTION: Do not insert metal objects into the module, specially in to the program switch, while it is connected to power.

3. To configure the UMI use UPStart and assign scene-links to control other UPB devices.

OPERATION

Inputs applied to the UMI module can be set to activate or deactivate other UPB devices or scenes based on either the presence or absence of the input, or both. UPStart, UPB configuration software, allows the user to select an input to operate as normally open (N.O.), or normally closed (N.C.) or customize the application. Open refers to the absence of input signal or an open contact closure. Closed refers to the presence of input signal above the threshold or a contact closure. When the input is applied, the corresponding INPUT indicator will glow GREEN.

Outputs operate according to commands sent by a controller or UPB scene-link. When the output is ON, the corresponding OUTPUT indicator will glow GREEN. The output relay can be configured to close, open or provide momentary closure upon receiving a UPB scene-link. Note that outputs can only be activated via UPB commands, and **not** via inputs within the same module. The UMI cannot control an output with an input on the same module; the UMI cannot "hear" itself when transmitting UPB.

UPB FACTORY DEFAULT SETTINGS

To restore the following UMI-32 default settings, place the UMI in SETUP mode and then press the Program Switch ten times. The indicator will flash RED. Press the switch twice to exit this mode.

UMI-32	
Network Name	"Network 1"
Room Name	"New Room Name"
Device Name	"New CM01"
Unit ID	40
Network ID	255
Net. Password	1234

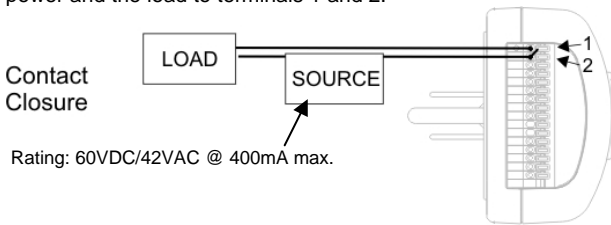
WIRING DIAGRAMS

The UMI module can accept up to 3 inputs and 2 outputs. Each input has different wiring configurations, depending upon the type of input being sensed:

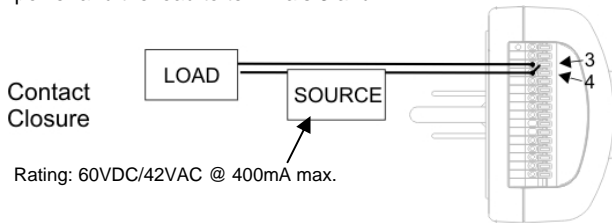
- Input #1 can accept a phoneline (for ring detect) or a low-voltage input.
- Input #2 can accept a dry contact closure or a low-voltage input.
- Input #3 can accept a current input (wired in series with a doorbell switch), a dry contact closure, a low-voltage input, or a line audio input with a choice of two trigger thresholds.

Low Voltage SSR (Solid State Relay) Outputs

Output #1: Connect wires in series with a source* of low-voltage power and the load to terminals 1 and 2.



Output #2: Connect wires in series with a source* of low-voltage power and the load to terminals 3 and 4.

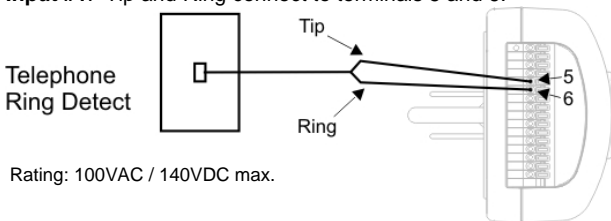


Internal relay is a dry contact. Connect wires to a device that accepts a contact input. If a voltage signal is required, wire a low voltage source in series. Polarity of the source is dependent on the load.

* Source may not be required by load. Check to confirm proper source connection.

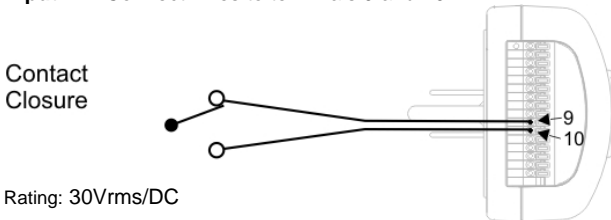
Telephone Ring Detect Input

Input #1: Tip and Ring connect to terminals 5 and 6.

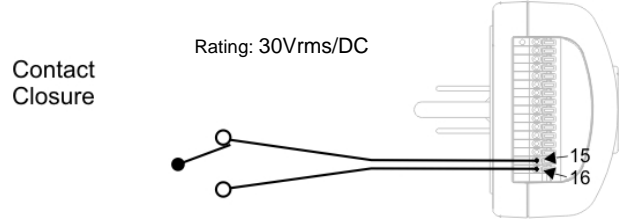


Contact Closure Inputs

Input #2: Connect wires to terminals 9 and 10.

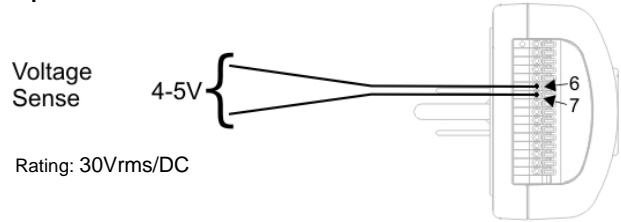


Input #3: Connect wires to terminals 15 and 16.

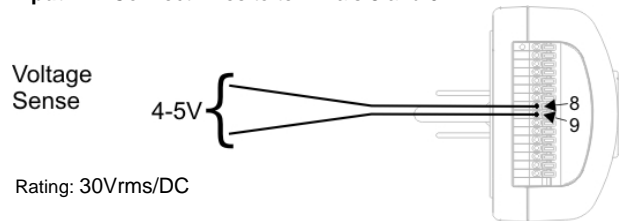


Voltage Sense (triggers on a 4-5VAC/DC threshold)

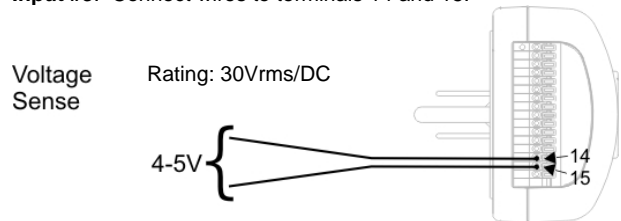
Input #1: Connect wires to terminals 6 and 7.



Input #2: Connect wires to terminals 8 and 9.

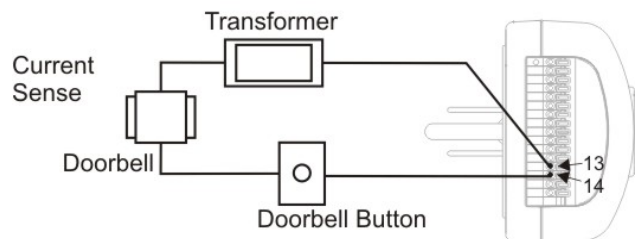


Input #3: Connect wires to terminals 14 and 15.



Doorbell Detect (current sense, triggers at around a 200mA threshold) 900mA max.

Input #3: Wire in series, preferably at transformer, connecting wire from doorbell switch to terminal 14 and connecting wire from terminal 13 to the transformer.



Audio Sense (-30dBV or -10dBV audio sense)

Input #3: From line audio source, connect center conductor to terminal 11 for -30dBV or terminal 12 for -10dBV. Connect the shield to terminal 13.

