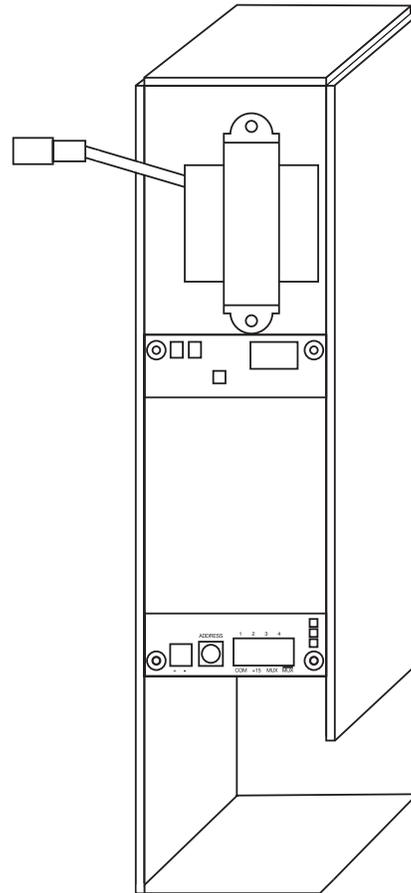# HomeWorks® Module Interface

A Module Interface controls up to eight Remote Power Modules (RPMs) in a remote power panel enclosure. The Module Interface manages communication between the RPMs and a processor. A Module Interface is powered from its own internal power transformer.

A Module Interface installs in HWI-PNL-8, HWBP-8D, HWAP-8D, or PBK8 with up to eight RPMs, in HWI-PNL-5 with up to five RPMs, or in HWBP-2S with up to two RPM-4Rs.

A manual override input is provided on each Module Interface, allowing a pre-determined lighting scene to be activated from designated override switches installed anywhere in the area.

Each processor has communication links that can be configured as power panel links dedicated to control up to 16 Module Interfaces. This connection must be daisy-chained and requires two pair IEC PELV/NEC® Class 2 wire – one pair 18 AWG (1.0 mm^2), one pair 18 AWG to 22 AWG (1.0 mm^2 to 0.5 mm^2) twisted shielded. Lutron® wire model GRX-CBL-346S-500 may be used.

Module Interface (HWI-MI-120)

Model Number

HWI-MI-120	120 V∿ Module Interface
HWI-MI-230	220-240 V∿ Module Interface

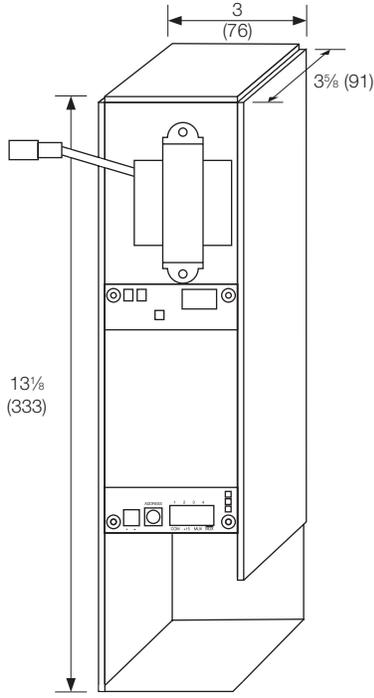# HomeWorks® Module Interface

Specifications

Model Number	HWI-MI-120, HWI-MI-230
Power	HWI-MI-120: 120 V∼ 50/60 Hz 1 A HWI-MI-230: 230 V∼ 50/60 Hz 0.5 A The Module Interface is powered by a separate line-voltage feed at the DIN rail terminal blocks and should not have terminal 2 connected on the processor communications link connector.
Typical Power Consumption	2 W
Regulatory Approvals	UL, CSA, NOM (HWI-MI-120) CE, ☯ C-tick (HWI-MI-230)
Environment	Ambient operating temperature: 32 °F to 104 °F (0 °C to 40 °C), 0 to 90% humidity, non-condensing. Indoor use only.
Cooling Method	Passive cooling.
Low-Voltage Wire Type	Two pair IEC PELV/NEC® Class 2 wire – one pair 18 AWG (1.0 mm^2), one pair 18 AWG to 22 AWG (1.0 mm^2 to 0.5 mm^2) twisted shielded. Lutron® wire model GRX-CBL-346S-500 may be used.
Low-Voltage Wiring Configuration	Maximum wire length of 1000 ft (305 m). Must be wired in a daisy-chain configuration. Terminators are required if total cable length exceeds 50 ft (15 m).
Low-Voltage Connections	One 4-pin removable terminal block. Each of the four terminals will accept up to two 18 AWG (1.0 mm^2) wires.
Addressing	Via rotary switch. Counts as 1 of the 16 Module Interface addresses on a power panel link.
Diagnostics	Three LEDs for troubleshooting communications with the processor and the RPMs.
ESD Protection	Meets or exceeds the IEC 61000-4-2 standard.
Surge Protection	Meets or exceeds ANSI/IEEE standard c62.41.
Miswire Protection	All terminal block inputs are over-voltage and miswire protected against wire reversals and shorts.
Fail Safe Operations	The manual override scene is activated for all RPMs connected to the Module Interface by closing a switch that is wired between the two manual override terminals. The switch (or relay) contacts must be rated for switching 50 mA at 30 V⎓. A single switch can be used for multiple Module Interfaces wired in parallel, but proper polarity must be maintained across all units. In this configuration, the switch must be rated for the sum of the current for all of the Module Interfaces connected (i.e., six Module Interfaces wired to a single manual override switch requires a switch rated for 300 mA at 30 V⎓).
Mounting Dimensions	13⅛ in x 3 in x 3⅝ in (333 mm x 76 mm x 92 mm)
Mounting	Mount in the lower right-hand corner of a panel enclosure (HWI-PNL-8, HWBP-8D, HWAP-8D, HWI-PNL-5, or HWBP-2S)
Output	Compatible with HW-RPM-4U dimming module, HW-RPM-4A adaptive dimming module, HW-RPM-4FSQ fan speed module, HW-RPM-4M motor module, and HW-RPM-4R power relay module.
Warranty	http://www.lutron.com/technicaltocumentlibrary/homeworks_warranty.pdf

HomeWorks® Module Interface

Dimensions

Measurements shown as: in (mm)

Configurations

8 Module Panel

5 Module Panel

2 Module Panel