Module Interface

Module Interfaces control up to eight RPMs and are available in two configurations: either integral to a HomeWorks® processor or as a stand-alone component. Each *HomeWorks* 8 series processor can control up to 16 Module Interfaces.

STAND-ALONE MODULE INTERFACE (MODEL HWI-MI-230)

A stand-alone Module Interface controls up to eight RPMs in a Remote Power Panel that does not contain a processor. A stand-alone Module Interface installs in HWI-PNL-8-CE, HWI-PNL-5-CE, PBK8-40-13-CE or PBK8-40-13-10-CE.
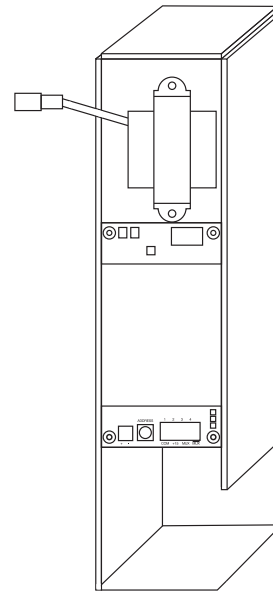
INTEGRAL MODULE INTERFACE

Some 8 series processor models (model HWI-PM-230, HWI-PM-H48-230, H8P5-MI-CE and H8P5-MI-H48-CE) contain integral Module Interfaces, allowing up to eight RPMs to be installed in the same panel. The processors with integral Module Interfaces must be installed in a HWI-PNL-8-CE Remote Power Panel.
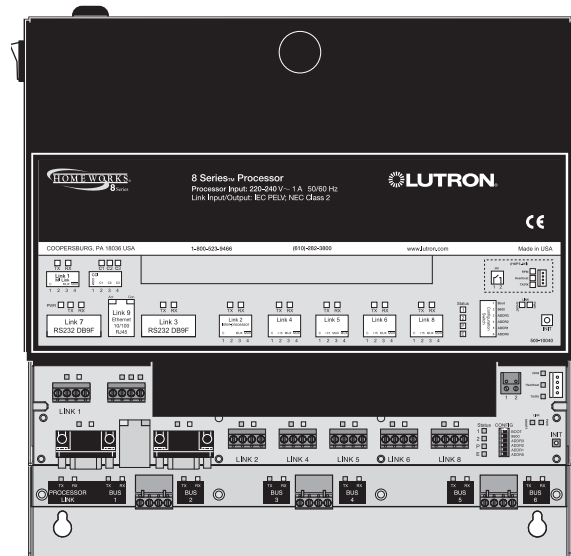
MANUAL OVERRIDE CAPABILITIES

A manual override input is provided on each Module Interface, allowing a preset lighting scene to be activated from switches installed anywhere in the home.

CONNECTION TO PROCESSOR

Each *HomeWorks* 8 series processor has one communication link (Link 1) dedicated to the control of up to 16 MIs. This connection must be daisy-chained and requires two pair [one pair 1.0mm² (#18 AWG), one pair 1.0-0.5mm² (#18-22 AWG) twisted shielded] Class 2/PELV wire. *Lutron* wire model GRX-CBL-346S-500 may be used.

View of stand-alone Module Interface (HWI-MI-230)

Processor with a module interface included

Module Interface

Specifications apply to HWI-MI-230 stand-alone Module Interfaces and to Module Interfaces integral to HomeWorks® 8 series processors	
Model	HWI-MI-230: stand-alone Module Interface. HWI-PM-230, HWI-PM-H48-230, H8P5-MI-CE, H8P5-MI-H48-CE: 8 series processor with integral Module Interface.
Input voltage	When integral to a processor, the MI is powered by 15VDC provided by terminals 1 and 2 on the processor communications link connector. When a stand-alone MI is used, it is powered by a separate line-voltage feed (220-240VAC, 50/60Hz) at the DIN rail terminal blocks and should not have terminal 2 connected on the processor communications link connector.
Regulatory approvals	CE, C-TICK
Environment	Ambient temperature: 0-40°C, 32-104°F Ambient humidity: 0-90% humidity, non-condensing. Indoor use only.
Cooling method	Passive cooling.
Low-voltage wire type	Two pair [one pair 1.0mm² (#18 AWG), one pair 1.0-0.5mm² (#18-22 AWG) twisted shielded] Class 2/PELV wire. Lutron® wire model GRX-CBL-346S-500 may be used.
Low-voltage wiring configuration	Maximum wire length of 305m (1,000 feet). Must be wired in a daisy-chain configuration. Link Terminator (LT-1) is required if total cable length exceeds 15m (50 feet).
Low-voltage connection	One 4-pin removable terminal block. Each of the four terminals will accept up to two 1.0mm² (#18 AWG) wires.
Addressing	Rotary switch. Counts as 1 of 16 MI addresses on an MI 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 operation	The manual override scene is activated for all RPMs connected to the MI by closing a switch that is wired between the two manual override terminals. The switch (or relay) contacts must be rated for switching 50 milliamps at 30VDC. A single switch can be used for multiple MIs 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 MIs connected (e.g., six MIs wired to a single manual override switch requires a switch rated for 300 milliamps at 30VDC).

LUTRON®

Module Interface

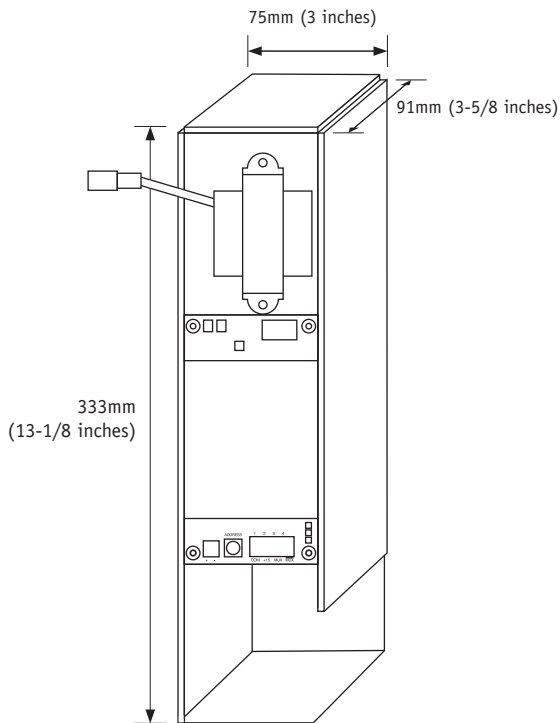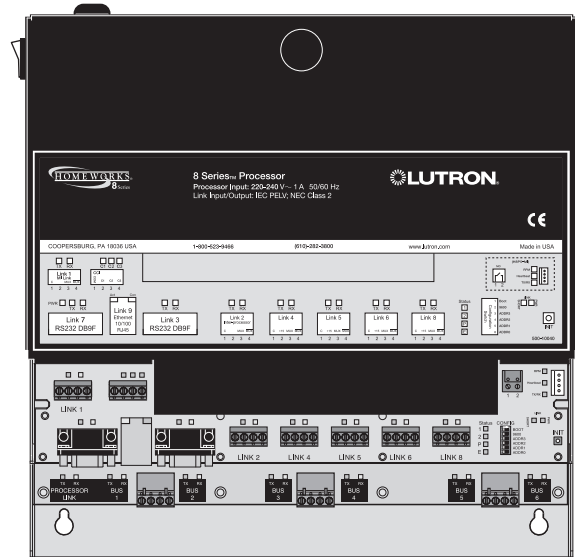|	
Specifications apply to HWI-MI-230 stand-alone Module Interfaces and to Module Interfaces integral to HomeWorks® 8 series processors	
Mounting dimensions	*See figure 1, page 5.11.*
Mounting	*See figures 2, 3 and 4 on page 5.11.* An integral MI is mounted within the processor. A stand-alone MI mounts in the lower right-hand corner of a panel enclosure (HWI-PNL-8-CE, HWI-PNL-5_CE, PBK8-40-13-CE and PBK8-40-13-10-CE).
Shipping weight	1.8kg (4 pounds)
Output	Compatible with HW-RPM-4U dimming module, HW-RPM-4E ELV module, HW-RPM-4M motor module, HW-RPM-4R power relay module, and HW-RPM-4A adaptive dimming module.

COMPONENTS

Module Interface

Figure 1 – HWI-MI-230 dimensions

75mm (3 inches)

91mm (3-5/8 inches)

333mm
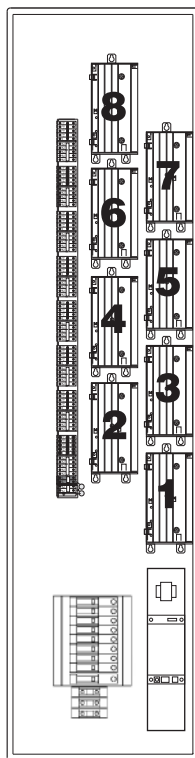(13-1/8 inches)

Processor with a module interface included
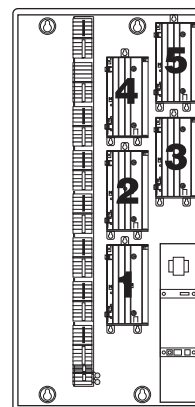

*Figure 3 – HWI-MI-230 mounted in an
PBK-40-13-CE enclosure*

*Figure 4 - HWI-MI-230 mounted in an
HWI-PNL-5-CE enclosure*