

Intuitous Relay Transformer

ECA-RT

The Intuitous Relay Transformer is a versatile accessory that provides 24VDC control voltage from a 110 to 240VAC supply and a set of SPDT relay contacts that can handle HVAC and lighting loads up to 10 amps. The relay is activated by Normally Open (NO) dry contacts from any of the Intuitous wired or wireless controllers. For older PTACs and HVAC systems with line voltage thermostats, the ECA-RT provides an efficient and low cost solution. The transformer Relay provides a step down to the 24V supply

required by the controller, and it provides a set of relay contacts that can switch the high voltage control circuit. In systems with line voltage controls, the Intuitous ECA-RT should be mounted in the HVAC enclosure. The relay transformer can be used for HVAC and lighting control. For lighting applications, the ECA-RT is best mounted in the electrical room lighting panel or enclosed within a box near the lighting circuit.



Applications

The Intuitous Energy Conservation System is designed to monitor the temperature, lighting and occupancy of an area and to automatically override the heating, cooling and lighting systems based on a pre-determined Energy Conservation Plan (ECP).

The Intuitous ECA-RT Relay Transformer is an optional accessory that is used to interface Intuitous HVAC & Lighting controllers to HVAC systems with 110 – 240V control and lighting systems that do not already have relay control. The ECA-RT can also be used to supply 24VDC power to the Intuitous controller. The Intuitous Relay Transformer (ECA-RT) can be used to switch lighting loads up to 240VAC @ 10A. 347VAC lighting systems and larger loads can be switched using 3rd party relay transformers.

Intuitous manufactures both wired and wireless energy conservation products. The “Wired” family of products is best suited for new construction or retrofit installation into buildings with easy access to control wiring through T-bar style ceilings and open areas.

Intuitous “Wireless” products are best suited for retrofit installation in multi-unit residential properties, hotels and any application where running control wires from the sensors to the controller would prove challenging.

Specifications

Supply Voltage	110-240VAC, 50/60Hz
Supply Current	1.0A
Output Voltage	24VDC
Output Current	200mA
Control Input	Normally Open Dry Contact
Relay Contacts	SPDT, 110-240VAC, 50/60Hz, 10A
Operating Temperature	-20C ~ 50C (4F ~ 122F)
Dimensions	110mm x 53mm x 32mm

Intuitous Wireless Products

ECS-WOL	Wireless Occupancy Sensor
ECS-WD	Wireless Door Sensor
ECC-WHCA	Wireless HVAC & Lighting Controller
ECC-WO	Wireless Lighting Controller
ECA-WHxxx	Wiring Harness (available pre-made or kit)
ECA-IKEY	Installer Key

Intuitous Wired Products

ECSC-OLTC	HVAC & Lighting Controller
ECSC-OC	Lighting Controller
ECS-O	Remote Occupancy Sensor

