

YardSwitch

Power Control Modules

YardSwitch 600 power control modules provide 120 VAC power control using 24 VAC control pulses. The use of 24VAC for control signals make YardSwitch modules a good choice for remote power control applications in outdoor areas where wireless and power-line remote control methods prove to be either too unreliable or too expensive.

YardSwitch modules utilize a simple and reliable control scheme while providing low power operation and reliable service. YardSwitch modules are controlled using pulses of 24VAC power. Each YardSwitch relay contains two control ports, one "off" port and one "on" port. Placing a 24VAC signal on the "off" port sets the relay to the open position, thereby disconnecting power to the load. Placing a 24VAC signal on the "on" port sets the relay to the closed position thereby providing power to the load. Once the internal relay is set to the desired position, the signal can be removed.

This control scheme makes YardSwitch ideal for applications that have relatively long duty cycles. Ideal applications include outside lighting and control of medium duty pumps like pond pumps and fountains.

Control Signal Source

Control signals can be obtained by switching the output of a 24VAC transformer using a PLC or home automation controller like HAI or ELK. In addition, the EtherRain sprinkler controller and Ware Brothers Model 2100 sprinkler controller can be used to provide the control signals.

All of these control sources provide sophisticated remote control of outdoor power events based on time, calendar, weather, or combination of all three.

Range, Distance, Reliability

24VAC can provide reliable control signal depending on wire gauge for distances of up to a mile. PowerLine signals have problems outdoors due to the usual need to traverse multiple power panels. In addition PowerLine control signals may not have the needed range and wireless solutions generally have limited range, with WiFi generally limited to 300 ft. In addition extending WiFi to cover an outdoors area can be a security risk. The wired solution provided by YardSwitch modules offer low cost, good range, and high reliability, with no maintenance.

Rating/Capacity

The switching capacity for YardSwitch 600 relays depends on the load. For standard line voltage lighting, recommended maximum is 600W or 6 100 Watt light bulbs. Strings of Christmas lights are rated in Watts, and generally up to 5 strings can be controlled.

Low voltage lighting generally uses a magnetic transformer to reduce line voltage from 120VAC to either 24VAC or 12VAC. YardSwitch 600 relays can provide reliable control to transformers rated up to 600 Watts.

For pumps and other motor applications, YardSwitch can reliably control motors rated at up to 1/3 Horsepower. This is the size of a larger pond or fountain pump.



Key Benefits:

- Reliable
- Long range control (1 mile)
- Power Saving
- No Maintenance
- Inexpensive

Key Features:

- Reliable control scheme
- Internal fuse
- Built-in spike protection
- 1/3 Horsepower Motors
- 900 Watt Inductive Load
- 1200 Watt Resistive Load
- 600 Watt Incandescent Load



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