

PRL-1ZBS ZigBee Relay Controller

Smart Anytime, Safe Anywhere

Convenient Opening and Closing of Home Facilities



- Automates any device controllable by an SPDT relay
- One relay contact and one dry contact
- Simplifies wiring efforts
- Compatible with other manufacturers' ZigBee products

The PRL-1ZBS is a ZigBee relay controller designed to automatically open and close pool covers, gas valve, water valve or sprinkler system, etc. With its service the user can remotely manage facilities inside and outside the home using remote controls, keypads, or control hubs. The PRL-1ZBS also allows relay activation events to be integrated into other home automation activities, enhancing the convenience and capabilities of an automated home.

Providing one relay contact with normally open (NO), normally closed (NC), and common pins, the PRL-1ZBS enables wireless operation of any device controllable by a single-pole, double-throw (SPDT) relay. The PRL-1ZBS has one dry contact and operates on a low-voltage DC power source. The power inputs of its two models, the PRL-1ZBS-5V and PRL-1ZBS-12/24V, are 5V DC and 12~24V DC respectively.

The PRL-1ZBS is interoperable with any ZigBee devices adopting the ZigBee Pro HA 1.2 standard. With an embedded antenna to boost its wireless performance, the relay controller also includes an LED to confirm proper ZigBee network operation and connectivity. The PRL-1ZBS simplifies wiring efforts and is ideal for the expansion of automation options in new or retrofit homes where cabling solutions are limited.



The PRL-1ZBS is used to automatically open and close pool covers, gas valve, water valve, or sprinkler system, etc.



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Pin Definitions



Side View

Pin	Definition	
1	Normally Closed (NC)	SPDT Relay Contact
2	Common	
3	Normally Open (NO)	
-	Ground	Dry Contact
+	12~24V DC Input	

Specifications

Networks supported	ZigBee (IEEE 802.15.4) mesh networking
Data rate	250kbps
Frequency	2.4 GHz
Power source (external power)	5V DC (PRL-1ZBS-5V) 12~24V DC (PRL-1ZBS-12V/24V) 110~230V AC (PRL-1ZBS-AC)
Power usage	~300mA fully active
Relay output	One SPDT relay
Operating temperature	-10°C to +45°C
Operating humidity	Up to 85% non-condensing
Dimensions	71.1mm x 49mm x 26mm

Features

- Automates pool covers, gas valve, water valve, or sprinkler system, etc.
- Provides wireless operation of any device controllable by an SPDT relay
- Allows relay activation events to be integrated into other home automation activities
- One relay contact
- One dry contact
- Operates on a low-voltage DC power source (5 or 12~24 volts) or AC power source (110~230 volts)
- LED confirms proper ZigBee network operation and connectivity
- Antenna design for optimal wireless performance
- Easy installation
- Compatible with other manufacturers' ZigBee products
- CE compliance

Ordering Information

PRL-1ZBS-5V	Uses a 5V DC power source
PRL-1ZBS-12/24V	Uses a 12~24V DC power source
PRL-1ZBS-AC	Uses a 110~230V AC power source