



PULSE LINKS

PRL-2SC WIRELESS PULSE LINK

DESCRIPTION

The PRL-2SC wireless pulse link is a low-cost, single channel point-to-point system with one transmitter and one receiver for short-hop pulse applications. Typically, these are parking lots, fields, roads, railroad tracks or anywhere where it is difficult to get a KYZ pulse from the meter. The PRL-2SC is a self-contained, Form A (2-wire), Line-of-Sight system capable of transmitting pulse information up to about 1 mile depending on topography and particulars of the mounting locations and space in between. Using Frequency Hopping Spread Spectrum (FHSS) technology allows excellent reliability and rejection of any other noise sources. There are 6 selectable channels. Each channel incorporates 50 of the 64 possible frequencies within the 900 MHz band. The same channel is selected on both the transmitter and receiver. Other PRL-2SC systems within the same radio airspace (~2-4 mile radius) will need to be assigned a different channel number. The Transmitter and Receiver are "paired" such that the Receiver will only accept meter pulse data from its specified Transmitter.



The PRL-2SC transmits 1 Form A (2-Wire) pulse in the continuous or real-time operating mode. In continuous mode, transmissions occur continuously about 10 times a second. Approximately 5 pulses per second are possible, which is adequate for most pulse applications. Continuous mode is designed to make the output pulses mirror the input pulse to the greatest extent possible.

The PRL-2SC Wireless Pulse Link system consists of one PRT-2SC Transmitter and one PRR-2SC Receiver. The system operates in the 900MHz band and is FCC pre-certified, thus allowing unlicensed operation by the user. The PRL-2SC will transmit pulses up to 5,000 to feet in a line-of-sight (LOS) configuration. Distances vary with the terrain, obstacles and greater elevation above the ground

FUNCTIONAL SUMMARY

IN	OUT
1	1
2 Wire	2 Wire
A	A

TYPE
FORM

PRL-2SC



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SPECIFICATIONS

ELECTRICAL

Power Input:	12-60VDC; 10-48VAC VAC Burden:<10mA at 24 VAC
Input Wetting Voltage to Meter:	+9VDC wetting voltage generated by the PRT-2AC Transmitter unit for use with dry contact compatible meter output.
Output:	One set of dry Form A contacts ("K" & "Y") for energy pulses. The contacts are solid state "no bounce" relays rated at 250 VDC or 200 VAC 1/10th Amp, 800mW max. Factory fused at 1/10 amp. (3AG)
Output Contact On-State Resistance:	18 ohms typical, 25 ohms maximum
Operate and Release Time:	1 to 3 milliseconds typical for solid state relay; Total propagation time up to 20mS.
Input/Output Isolation Voltage:	2500V
AES Encryption	YES

MECHANICAL

Mounting:	Any position for base units; Must be line of sight for transceiver/antenna units
Size:	4.0" wide, 4.0" high, 2.5" deep
Weight:	2 pounds each

TEMPERATURE

Temperature Range:	-38° C to +70° C, -36.4° F to +158° F
Humidity:	0 to 98% non-condensing

AVAILABLE OPTIONS

Input Voltages:	Contact Factory
Enclosures:	Any NEMA 4X Fiberglass or ABS Enclosure

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