

# General Specifications

## Pulse Repeater

### 1. GENERAL

This signal conditioner converts non-voltage contact pulses, open collector contacts, voltage pulses and current pulses from the field to isolated transistor contact pulses.

- Built-in 12V or 24V power supply to transmitter.

### 2. SPECIFICATIONS

IO Specifications	
Input resistance	When contact or voltage pulse: 15k $\Omega$ min When current pulse: depends on load resistance
Signal source resistance	1k $\Omega$ max
Internal load resistance (current pulse)	200 $\Omega$ , 510 $\Omega$ , 1k $\Omega$ (selectable by jumper pin)
Input frequency	0 < FR $\leq$ 6(kHz) (FR: input frequency) Possible upto 0 < FR $\leq$ 10(kHz) at voltage pulse with amplitude of 5V min
Minimum input pulse width	ON: 60 $\mu$ s, OFF: 60 $\mu$ s
Transmitter power supply	12V DC $\pm$ 10%, 24V DC $\pm$ 10%, 30mA max
2-wire type	Contact ON/OFF, voltage pulse, current pulse (transmitter power supply also possible)
3-wire type	Power supply type
Contact input type	Relay contact or transistor ON/OFF contact
Contact closed	200 $\Omega$ max. Contact open: 100k $\Omega$ min
Contact capacity	15V DC, 15mA min
Filter	Selectable by jumper pin (filter time constant 10ms)
Swing width	EH-EL $\geq$ 3V
Voltage EL (Low level)	-1V~+8V DC
Voltage EH (High level)	+3V~+24V DC
Output signals	Transistor contact (open collector)
Output frequency	Same as input frequency
Output contact capacity	30V DC, 30mA (Max)
Standard performance	
Insulation resistance	100M $\Omega$ min (at 500V DC) between input~output~power supply (DC drive) input~output~power supply~ground (AC drive)
Voltage withstand	1500V AC/minute between input~output, input~power supply 500V AC/minute between output~power supply (DC drive) 1500V AC/minute between input~output~power supply~ground (AC drive)
Ambient temperature and humidity	Normal operating condition: 0~50 $^{\circ}$ C, 5~90% RH Operating limit: -10~60 $^{\circ}$ C, 5~95% RH Storage condition: -40~70 $^{\circ}$ C, 5~95% RH (no condensation)
Power supply voltage	85~264V AC 47~63Hz, 24V DC $\pm$ 10%
Effect of power supply voltage fluctuation	$\pm$ 0.1% max of span per 85~264V AC or 24V DC $\pm$ 10% fluctuation
Effect of change in ambient temperature	$\pm$ 0.2% max of span per 10 $^{\circ}$ C change in temperature
Current dissipation	24V DC 60mA (WP1P-1)
Power dissipation	100V AC 6VA (WP1P-2)
Mountings and dimensions	
Material	Case: ABS plastic
Boards	Both sides glass-epoxy
Mounting methods	Rack, wall, or DIN rail
Connection method	M4-screw terminals
External dimensions	72 x 48 x 127 mm (h x w x d)
Weight	DC drive: approx. 150g, AC drive : approx. 300g
Accessories	
Tag number labels: 1	M4 mounting screws: 4
Mounting blocks: 2	

WP1P-□1-□\*B

TYPE NO.

INPUT SIGNAL

- 1: With 12V DC ±10% transmitter power supply
- 2: With 24V DC ±10% transmitter power supply

OUTPUT SIGNAL

- 1: Open collector

POWER SUPPLY

- 1: 24V DC±10% 2: 85~264V AC

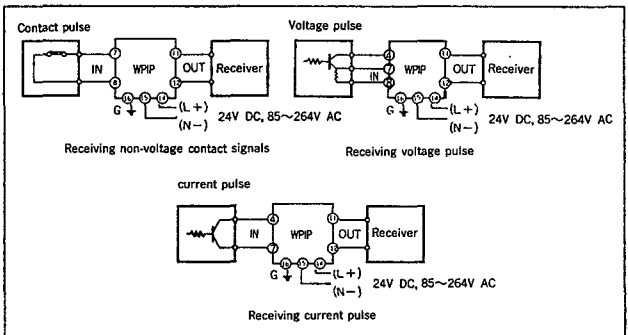
DUAL OUTPUT SPECIFICATIONS		
Model	1st Output (selectable)	2nd Output
WP1P	Pulse	Pulse

The JUXTA W Series allows dual output.  
Enter/DOT after the model code when ordering.

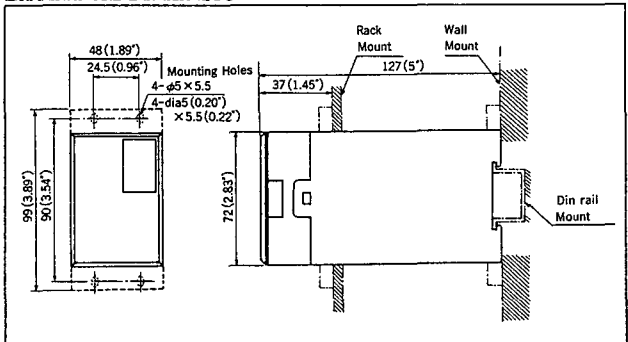
**High Voltage Withstand Specifications**

The JUXTA W Series is also available in 2000V AC voltage withstand specifications. Contact your dealer for details.

**WIRING DIAGRAM**



**EXTERNAL DIMENSION**



Subject to change without notice for grade up quality and performance