

JUXTA W Series

General Specifications

Model : WQ0P

JUXTA

Analog/Pulse Transmitter

1. GENERAL

This signal conditioner converts DC voltage or current signals to pulse train signals. Output signals are open collector or contactless AC switch.

2. SPECIFICATIONS

IO Specifications	
Input signal	DC voltage or current signals
Input resistance	1 M Ω for voltage input. 100 Ω ~ 1k Ω for current input
Output signal	0~F100%Hz (where F100 = 100% output frequency) (0.001Hz \leq F100 \leq 4000Hz)
Zero point adjustment range	\pm 1% of span
Span adjustment range	\pm 5% of span
Output format	Open collector, contactless AC switch
Pulse width	Duty 50 \pm 10%
Maximum permissible load	Open collector 30V, 200mA DC
Standard performance	
Precision rating	\pm 0.1% of span
Response speed	150ms (100Hz span min) 1.5 sec (100Hz span max) 63% response (10~90%)
Insulation resistance	100M Ω 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 65mA (WQ0P-1)
Power dissipation	100V AC 5.5VA (WQ0P-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	
Mounting blocks: 2	M4 mounting screws: 4

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TYPE NO.

INPUT SIGNAL

A: 4~20mA DC

B: 2~10mA DC

C: 1~5mA DC

Z: (Custom) current signal

(where 100% is 50mA max and zero elevation is 25% max span)

6: 1~5V DC

OUTPUT SIGNAL

1: Open collector

3: Contactless AC switch

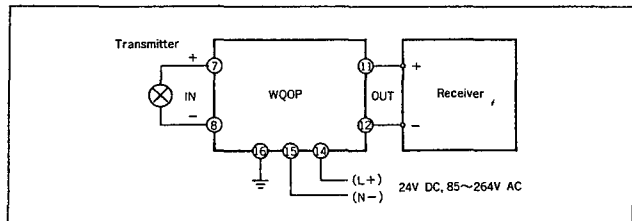
POWER SUPPLY

1: 24V DC±10% 2: 85~264V AC

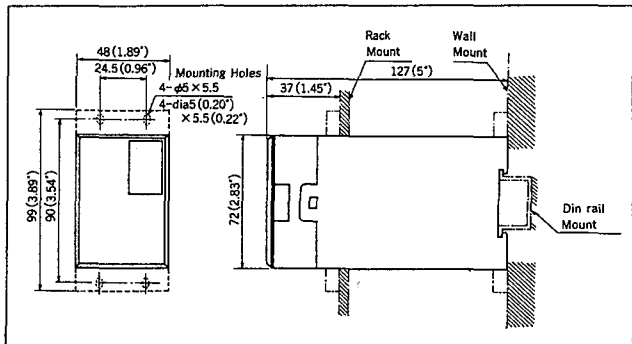
High Voltage Withstand Specifications

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

WIRING DIAGRAM



EXTERNAL DIMENSION



OUTPUT PULSE WIDTH	
Duty: 50±10%	
Pulse width fixed	100µs
	500µs
	1ms
	5ms
	10ms
	50ms
	100ms
	500ms
	±20%

Subject to change without notice for grade up quality and performance