

JUXTA W Series

Model : WHRA/V

General Specifications

Reverse Isolator

JUXTA

1. GENERAL

- This signal conditioner converts DC current or voltage signals to current or voltage signals.
- Input-output signals are reversed.

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
Permissible applied voltage	\pm 30V DC max
Input computation function	E_o (output voltage) = 6V- E_i (input voltage)
Output signal	DC current or voltage signal
Zero point adjustment range	\pm 3% of span
Span adjustment range	\pm 6% of span
Standard performance	
Precision rating	\pm 0.1% of span
Response speed	150ms 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°C, 5~90% RH Operating limit: -10~60°C, 5~95% RH Storage condition: -40~70°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°C change in temperature
Current dissipation	24V DC 102mA (WHRA-1), 80mA (WHRV-1)
Power dissipation	100V AC 10VA (WHRA-2), 6VA (WHRV-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	

WHR- - - * B

TYPE NO.

OUTPUT SPECIFICATION

A: Current

V: Voltage

INPUT SIGNAL

A: 4~20mA DC

1: 0~10mV DC

B: 2~10mA DC

2: 0~100mV DC

C: 1~5mA DC

3: 0~1V DC

D: 0~20mA DC

4: 0~10V DC

E: 0~16mA DC

5: 0~5V DC

F: 0~10mA DC

6: 1~5V DC

G: 0~1mA DC

7: -10~+10V DC

H: 10~50mA DC

0: (custom) voltage signal

Z: (custom) current signal

(±300V max)

(150mA max)

OUTPUT SIGNAL

WHRA

WHRV

A: 20~4mA DC

1: 10~0mV DC

B: 10~2mA DC

2: 100~0mV DC

C: 5~1mA DC

3: 1~0V DC

D: 20~0mA DC

4: 10~0V DC

E: 16~0mA DC

5: 5~0V DC

F: 10~0mA DC

6: 5~1V DC

G: 1~0mA DC

7: +10~-10V DC

Z: (custom) current signal

0: (custom) voltage signal

(24mA max)

(±10V max)

POWER SUPPLY

1: 24V DC±10% 2: 85~264V AC

DUAL OUTPUT SPECIFICATIONS

Model	1st Output (selectable)	2nd Output
WHRA	20~4mA DC	5~1V DC
	10~2mA DC	
	5~1mA DC	
	20~0mA DC	
	16~0mA DC	
	10~0mA DC	
WHRV	1~0mA DC	5~1V DC
	10~0mV DC	
	100~0mV DC	
	1~0V DC	
	10~0V DC	
	5~0V DC	
	5~1V DC	
	+10~10V DC	

The JUXTA W Series allows dual output.
Enter/DO 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.

OUTPUT RESISTANCE AND PERMISSIBLE LOAD RESISTANCE

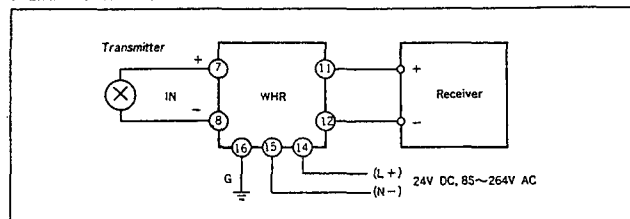
WHRA (DC Current Output)		
Output Signal	Output Resistance	Permissible Load Resistance
20~4mA DC	5MΩ min	0~750Ω
10~2mA DC		0~1500Ω
5~1mA DC		0~3000Ω
20~0mA DC		0~750Ω
16~0mA DC		0~900Ω
10~0mA DC		0~1500Ω
1~0 mA DC		0~15kΩ
Others where I ₁₀₀ =24mA max		

I₁₀₀ : 100% output current

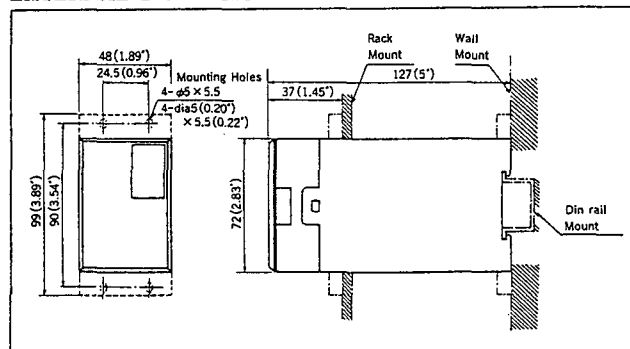
WHRV (DC Voltage Output)		
Output Signal	Output Resistance	Permissible Load Resistance
10~0mV DC	100Ω max	250kΩ min
100~0mV DC		250kΩ min
1~0V DC	1Ω max	2kΩ min
10~0V DC		10kΩ min
5~0V DC		2kΩ min
5~1V DC		2kΩ min
+10~-10V DC		10kΩ min
Others where V ₁₀₀ ≤100mV		100Ω max
V ₁₀₀ >100mV	1Ω max	10kΩ min

V₁₀₀ : 100% output voltage

WIRING DIAGRAM



EXTERNAL DIMENSION



Subject to change without notice for grade up quality and performance