

JUXTA F Series

General Specifications

Model : FHRA/V

JUXTA

Reverse Isolator

1. GENERAL

This signal conditioner converts DC current or voltage signals to current or voltage signals.

- Input-output relationship is 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 5% of span
Span adjustment range	\pm 5% 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, input-power supply and output-power supply
Voltage withstand	1500V AC/minute between input-output, input-power supply 500V AC/minute between output-power supply
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	24V DC \pm 10% (ripple : 10% P-P max)
Effect of power supply voltage fluctuation	\pm 0.1% max of span per 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 85mA (FHRA), 50mA (FHRV)
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 24 x 127 mm (h x w x d)
Weight	130g
Accessories	
Tag number label : x 1	
Mounting blocks: x2	M4 mounting screws: x2

FHR□-□□*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
(150mA max) | (±300V max) |

OUTPUT SIGNAL

- | | |
|--|--|
| FHRA | FHRV |
| 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
(24mA max) | 0: (custom) voltage signal
(±10V max) |

POWER SUPPLY

24V DC±10%

OUTPUT RESISTANCE AND PERMISSIBLE LOAD RESISTANCE

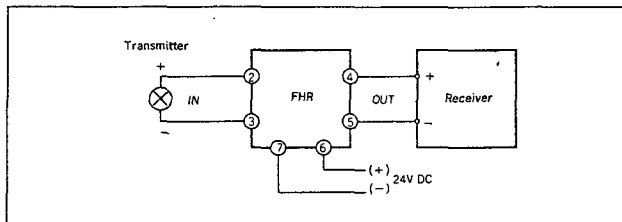
FHRA (DC Current Output)		
Output Signal	Output Resistance	Permissible Load Resistance
20~4mA DC	5MΩ min	0~750Ω
10~2mA DC		0~1500Ω
5~1mA DC		0~3000Ω
20~0mA DC		0~750Ω
16~0mA DC		0~900Ω
10~0mA DC		0~1500Ω
1~0mA DC		0~15kΩ
Others where I ₁₀₀ =24mA max		

I₁₀₀: 100% output current

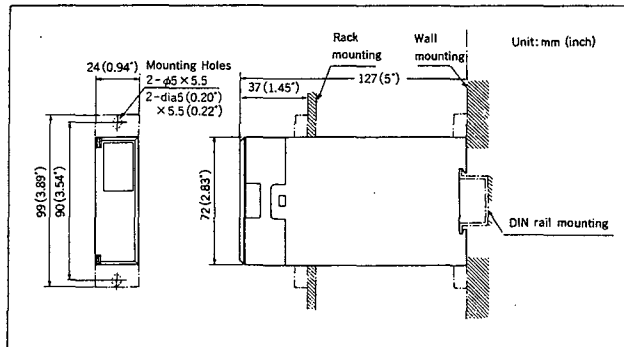
FHRV (DC Voltage Output)			
Output Signal	Output Resistance	Permissible Load Resistance	
10~0mV DC	100Ω max	250kΩ min	
100~0mV DC		250kΩ min	
1~0V DC	1Ω max	2kΩ min	
10~0V DC		10kΩ min	
5~0V DC		2kΩ min	
5~1V DC		2kΩ min	
+10~-10V DC		10kΩ min	
Others where V ₁₀₀ ≤100mV	100Ω max	250kΩ min	
V ₁₀₀ =24mA 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