

JUXTA F Series

General Specifications

Model : FH1A/V

JUXTA

Isolator

1. GENERAL

This isolator converts DC current signals or voltage signals to current or voltage signals.

2. SPECIFICATIONS

IO Specifications	
Input signal	DC voltage or current signals
Measuring range	-10~±10V DC , span: 10mV min where zero elevation is ±50% max of span
Input resistance	1 M Ω for voltage input. 100 Ω ~ 1k Ω for current input
Permissible applied voltage	±30V DC max
Output signal	DC current or voltage signal
Zero point adjustment range	±5% of span
Span adjustment range	±5% of span
Standard performance	
Precision rating	±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 ±10% (ripple: 10% P-P max)
Effect of power supply voltage fluctuation	±0.1% max of span per 24V DC ±10% fluctuation
Effect of change in ambient temperature	±0.2% max of span per 10°C change in temperature
Current dissipation	24V DC 85mA (FH1A), 50mA (FH1V)
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 : x1	
Mounting blocks: x2	M4 mounting screws: x2

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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

FH1A	FH1V
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
Z: (custom) current signal (24mA max)	0: (custom) voltage signal (±10V max)

POWER SUPPLY

24V DC±10%

OUTPUT RESISTANCE AND PERMISSIBLE LOAD RESISTANCE

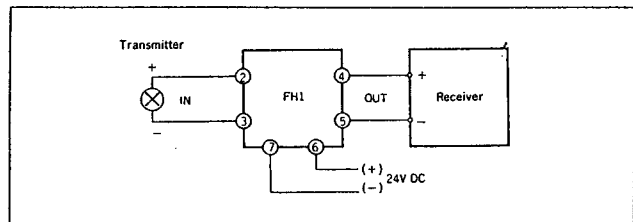
FH1A (DC Current Output)		
Output Signal	Output Resistance	Permissible Load Resistance
4~20mA DC	5MΩ min	0~750Ω
2~10mA DC		0~1500Ω
1~5mA DC		0~3000Ω
0~20mA DC		0~750Ω
0~16mA DC		0~900Ω
0~10mA DC		0~1500Ω
0~1mA DC		0~15kΩ
Others where I ₁₀₀ =24mA max		

I₁₀₀ : 100% output current

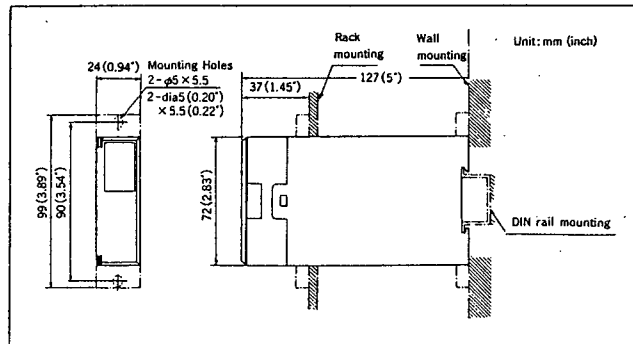
FH1V (DC Voltage Output)			
Output Signal	Output Resistance	Permissible Load Resistance	
0~10mV DC	100Ω max	250kΩ min	
0~100mV DC		2kΩ min	
0~1V DC		10kΩ min	
0~10V DC		2kΩ min	
0~5V DC		2kΩ min	
1~5V DC		10kΩ min	
-10~+10V DC		10kΩ min	
Others where V ₁₀₀ ≤ 100mV		100Ω max	250kΩ min
V ₁₀₀ = 24mA max	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