JUXTA F Series General Specifications

Model FH2A/V Isolator

JUXTA

1. GENERAL

Model FH2A/V Isolator, μP built-in type, converts DC current or voltage signals into various current or voltage signals. Change of input/output ranges, adjustment of zero span and monitoring of input/output can easily be made in the field by handy terminal.

2. SPECIFICATIONS

Input & Output	
Input signal	DC voltage or current signal See Table 1
Input resistance	[current input] 100Ω See Table 1 [voltage input] 1MΩ (when power on), 100KΩ (when power off)
Permissible applied input	See Table 1
Output signal	DC voltage or current signal See Table 2
Zero point adjust range	±1% of span (input adjust), ±10% of span (output correction)
Span adjust range	±1% of span (input adjust) ±10% of span (output correction)
Standard Performance	
Accuracy rating	±0.1% of span
Response speed	150ms 63% response (10～90%)
Insulation resistance	More than 100MΩ (at 500V DC) between input～output～power supply mutually
Withstand voltage	1500V AC/1 minute between input～output, input～power supply 500V AC/1 minute between output～power source
Ambient temperature & humidity	Normal operating condition: 0～50°C, 5～90%RH Operating limit: -10～60°C, 5～95%RH Storing condition: -40～70°C, 5～95%RH (no condensation)
Power supply voltage	24V DC±10% (ripple: 10%P～P max)
Effect of power source voltage fluctuation	Less than ±0.1% of span per fluctuation of 24V DC±10%
Effect of ambient temperature change	Less than ±0.2% of span per change of 10°C
Current dissipation	24V DC 92mA(FH2A), 60mA(FH2V)
Mounting & Dimension	
Material	ABS plastic case
Boards	Both sides glass-epoxy
Mounting method	Rack, wall or DIN rail
Connection method	M4-screw terminals
External dimension	72x24x127mm (HxWxD)
Weight	130g
Accessories	
Tag number label ... 1 Mounting block 2	Range label ...1 M4 mounting screw ...2

FH2□−□□*A

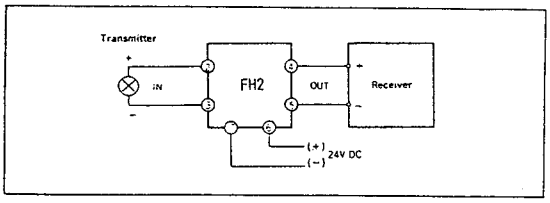
Type

Output Specfications
A: Current
V: Voltage

Input Signal (See Table 1 for setting range)
A: 0～50mA DC
B: 0～10mA DC
Z: (CUSTOM) Current Signal
1: −10～+10V DC
2: −1 ～+1V DC
0: (CUSTOM) Voltage Signal

Output Signal (See Table 2 for setting range)
[FH2A]
A: 0～20mA DC
B: 0～5mA DC
[FH2V]
1: 0～10V DC
2: 0～100mV DC
0: (CUSTOM) Voltage Signal

WIRING DIAGRAM



EXTERNAL DIMENSION

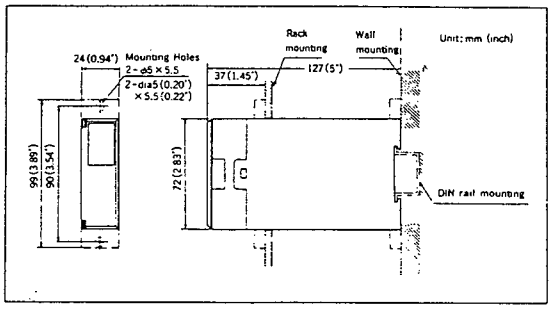


TABLE 1

Input Type	Input Range Setting	Permissible Applied Input	Input Resistance
1	-10～+10V DC, Span 1V min., Elevation -50～50%	±15V	1MΩ(when power on) 100KΩ(when power off)
2	-1～+ 1V DC, Span 0.1V min., Elevation -50～50%	±15V	
0	-30～+30V DC, Span 3V min., Elevation -50～50%	±50V	
A	0～50mA DC, Span 10mA min., Elevation 0～50%	70mA	100Ω
B	0～10mA DC, Span 1mA min., Elevation 0～50%	70mA	100Ω
Z	0～5mA DC, Elevation 0～50% Span should be R_i x Is ≧ 1(V) 100% point should be R_i x I_{100} ≦ 10 (V)	Current I(mA) when R_i xI^2 ≦ 0.5(W)	Specify by customer (satisfy conditions mentioned left)

R_i : Input resistance Is : Input current span I : Permissible maximum input current
I_{100} : 100% input current

TABLE 2

Output Type	Output Range Setting	Output Resistance	Permissible Load Resistance
1	0～10V DC, Span 1V min., Elevation 0～50% where accuracy limit exsists in span less than 2V	1Ω maximum	10KΩ minimum
2	0～100mV DC, Span 10mV min., Elevation 0～50% where accuracy limit exsists in span less than 20mV	100Ω maximum	250KΩ minimum
0	*manufacture available range -10～ +10V DC, Span 10mV min., Elevation -50～50%	1Ω or 100Ω maximum	10KΩ or 250KΩ minimum
A	0～20mA DC, Span 4mA min., Elevation 0～50% where accuracy limit exsists in span less than 8mA	500KΩ mimimum	(15/OUT_{100})Ω max.
B	0～5mA DC, Span 1mA min., Elevation 0～50% where accuracy limit exsists in span less than 2mA		

Subject to change without notice for grade up quality and performance