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AFP7AD4H | FP7 Analog Input and Output units



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RoHS
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Product Number

AFP7AD4H

Part Number

AFP7AD4H

Product

FP7 Analog Input and Output units

Details

FP7 Analog Input unit (High-speed and high-accuracy type)

Product name

FP7 Analog Input and Output units

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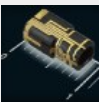
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As of July 16, 2018

Specifications and design of the products are subject to change without notice for the product improvement.

Spec Detail

Item	Specifications
Product Number	AFP7AD4H
Part Number	AFP7AD4H

ANALOG INPUT SPECIFICATIONS

Item	Specifications
Number of input channels	4 channels
Input range (resolution max. 16 bits):Voltage	-10 to +10 V (resolution: 1/62,500), 0 to 10 V (resolution: 1/31,250), 0 to 5 V (resolution: 1/31,250), 1 to 5 V (resolution: 1/25,000)
Input range (resolution max. 16 bits):Current	0 to 20 mA (resolution: 1/31,250), 4 to 20 mA (resolution: 1/25,000)
Conversion speed:Voltage / Current	25 micro s/channel (at not insulated channels), 5 ms/channel (at insulated channels)
Overall accuracy	plus or minus 0.05 % F.S. or less (at 25 degrees 77 degrees Fahrenheit), plus or minus 0.1 % F.S. or less (at 0 to 55 degrees 32 to 131 degrees Fahrenheit)
Input impedance:Voltage input	1 MOhm
Input impedance:Current input	250 Ohm
Absolute maximum input	-15 to +15 V Voltage input, -2 to +30 mA Current input
Insulation method:Between the input terminal and internal circuits	Photocoupler, Insulation type DC/DC converter
Insulation method:Between channels	PhotoMOS relay
Digital processing:Averaging:Number of times	Range setting: 2 to 60,000 times

Digital processing:Averaging:Time	Time setting: 1 to 1,500 ms (at not insulated channels), 200 to 60,000 ms (at insulated channels)
Digital processing:Averaging:Moving	Range setting: 2 to 2,000 times
Digital processing:Scale conversion setting	Any value within plus or minus 30,000
Digital processing:Offset setting	Any value within plus or minus 3,000
Digital processing:Gain setting	Any value within 9,000 to 11,000
Input range change method	Selectable for each channel
Conversion execution / non-execution channel setting	Selectable for one channel unit
Maximum and minimum value holding	Settable for each channel
Comparison of upper and lower limit values	Settable for each channel (hysteresis)
Broken wire sensing	When less than 0.7 V / 2.8 mA *Only when voltage input range 1 to 5 V or current input range 4 to 20 mA is set.
Buffer function	3 trigger types: Soft trigger, External trigger and Input level
Trigger input section:Insulation method	Optical coupler insulation
Trigger input section:Rated input voltage	24 V DC
Trigger input section:Rated input current	4.5 mA approx. (at 24 V DC)
Trigger input section:Input impedance	5.1 kOhm approx.
Trigger input section:Operating voltage range	21.6 to 26.4 V DC
Trigger input section:Min. ON voltage / Min. ON current	19.2 V / 3.5 mA
Trigger input section:Max. OFF voltage / Max. OFF current	5 V / 1.5 mA
Trigger input section:Response time:OFF→ON	0.2 ms or less
Trigger input section:Response time:ON→OFF	0.2 ms or less
Trigger input section:Input points per common	2 points/common
External connection method	Terminal block (M3 terminal screw)

COMMON GENERAL SPECIFICATIONS

Item	Specifications
Ambient temperature	0 to +55 degrees +32 to +131 degrees Fahrenheit , at storage: -40 to +70 degrees -40 to +158 degrees Fahrenheit
Ambient humidity	10 to 95 % RH (at 25 degrees 77 degrees Fahrenheit , no condensation), at storage: 10 to 95 % RH (at 25 degrees 77 degrees Fahrenheit , no condensation)
Breakdown voltage	500 V AC for 1 minute (Note) For between analog input channels of analog input unit, the breakdown voltage is 200 V AC, 1 minute.
Insulation resistance	100 MOhm or more (at 500 V DC)
Vibration resistance	5 to 8.4 Hz, single amplitude of 3.5 mm 0.14 in, 1 sweep/min. (IEC61131-2); 8.4 to 150 Hz, constant acceleration of 9.8 m/s ² , 1 sweep/min. (IEC61131-2); for 10 min. each in X, Y, and Z directions
Shock resistance	147 m/s ² or more, 3 times each in X, Y, and Z directions (IEC61131-2)
Noise immunity	1,000 V [p-p] with pulse width 50 ns and 1 micro s (using a noise simulator)
Operating condition	Free from corrosive gasses and excessive dust

INDIVIDUAL GENERAL SPECIFICATIONS

Item	Specifications
Rated voltage range	-
Current consumption	100 mA or less

Net weight	130 g approx.
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Accessories (Option)

No image

Product Number **AFP7TER**

Part Number **AFP7TER**

Product name **FP7 Terminal block**

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