



Model I-7012FD with LED display

Models: I-7012, I-7012F, I-7012D, I-7012FD

Single-Channel Analog Input Modules

with LED Display (I-7012D, I-7012FD)

Models I-7012, I-7012D, I-7012F, and I-7012FD are single-channel analog input modules with high/low alarm function. I-7012D and the I-7012FD have 4½ digit LED display.

Additionally, the I-7012F and the I-7012FD offer high-speed analog input function.

Feature/Benefits

- Din rail mountable
- 10 to 30 VDC
- Dual Watchdog

Specifications

Analog Input

- Type: mV, V, mA (with external 125 ohms resistor)
- Channels: 1
- Voltage range: +/-150mV, +/- 500mV, +/-1V, +/- 5V, +/-10V
- Current range: +/- 20mA
- Resolution: 16 bits
- Sampling rate: 10 samples/second (for 7012/7012D)
100 samples/second (for 7012F/7012FD)
- Bandwidth: 5.24 Hz (for 7012/7012D)
52.4 Hz (for 7012F/7012FD)
- Input impedance: 20M Ohms
- Accuracy: ±0.05%
- Zero drift: ± 20uV/°C
- Span drift: ±25ppm/°C
- CMR @ 50/60 Hz: 86 dB
- NMR @ 50/60 Hz: 100 dB
- Over voltage protection: 35V (P-P)
- Isolation: 3000Vrms

Digital Input

- Channel: 1
- Logic level 0: + 1V max
- Logic level 1: + 3.5V to 30V

Event Counter

- Max. input frequency: 50Hz
- Min. pulse width: 1 mS

Digital Output

- Channels: 2
- Open collector to 30V
- Output load: sink 30mA max.
- Power dissipation: 300mW

PIN Assignments

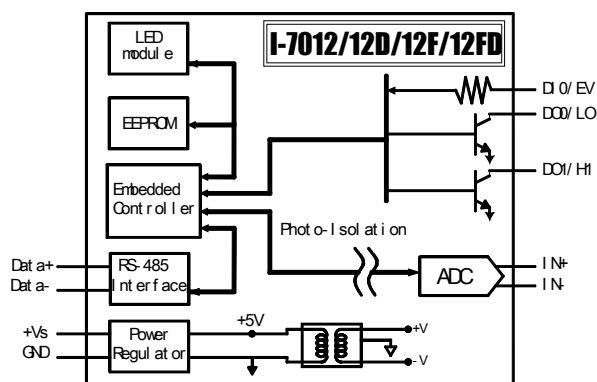
+IN	1
-IN	
DO1/HI	
DI0/EV	
DO0/LO	
INIT*	
(Y)DATA+	
(G)DATA-	
(R)+Vs	
(B)GND	10

International Headquarters:

B&B Electronics Mfg. Co. 707 Dayton Road P.O. Box 1040 Ottawa, IL 61350 USA
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Block Diagram



LED Indication 4½ digits (only for I-7012D/I-7012FD)

RS-485 Connector

Asynchronous 2-wire half-duplex
Pluggable terminal block: Pitch 5.08 mm

Baud Rate

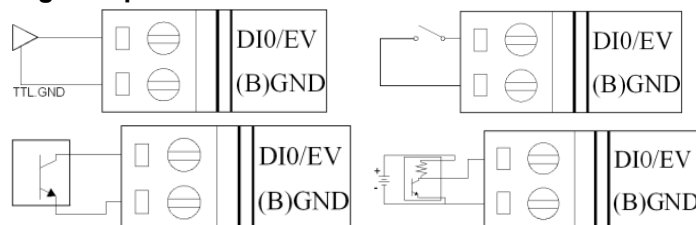
1.2K/2.4K/4.8K/9.6K/19.2K/38.4K/57.6K/115.2K bps

Wire Connection

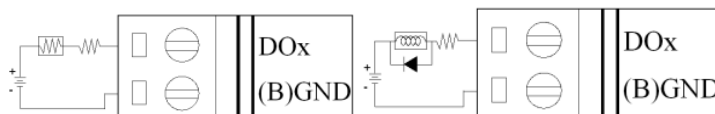
Analog Input



Digital Input



Digital Output



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Power Requirements

Power input: 10 to 30 VDC

Power Consumption

1.3Watt for I-7012 and I-7012F

1.9Watt for I-7012D and I-7012FD

Environmental

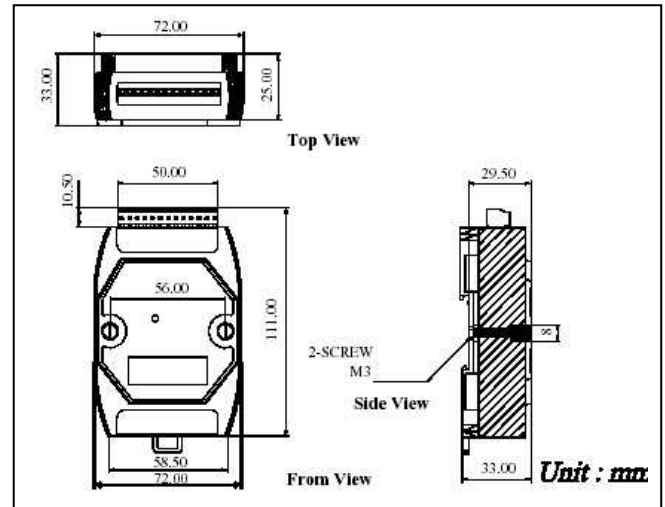
Storage temperature: -25 to 80°C
(-13 to 176 °F)

Operation temperature: -20 to 75°C
(-4 to 167°F)

Humidity: 5 to 95%, non-condensing

Dimensions: 120L x 72W x 33H cm
(4.7 x 2.8 x 1.3 in)

Certification: CE



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