SystempaK (Analog Type) Isolator Module

Model J-SSD 60/65

Introduction

The Isolator Modules (J-SSD60/65) accept a 1 to 5V DC or 4 to 20 mA DC input and converts it into an isolated 1 to 5V DC or 4 to 20 mA DC output signal. The Isolator Modules are available for one-output (J-SSD60) or two-output (J-SSD65) model. The Isolator Module with integrated transmitter power supply is also available.

Complete isolation is employed between the power, input, and output circuits. In the two-output model, isolation is employed also between the two output circuits.

Specification

- Input signal: 1 to 5V DC or 4 to 20 mA DC
- Input impedance: 250 Ω (current), 1 M Ω (voltage)
- · Output signal:

No. 1 output; 1 to 5V DC or 4 to 20 mA DC

No. 2 output; 1 to 5V DC

No. 1 and No. 2 outputs are isolated.

Edge connector output; 1 to 5V DC (No. 1 output must be 1 to 5V DC when connecting the signal with the A-MC I/O cable.)

· Output impedance:

Voltage output; 250 Ω or less (No. 1 and No. 2 outputs) Current output; 250 $k\Omega$ or more (No. 1 output)

- Load: 0 to 600 Ω
- Output accuracy: ±0.15%FS (No. 1 and No. 2 outputs)
- · Insulation resistance:

500V DC, 100 M Ω min (Mutual between input - output - GND - power terminal)

- · Withstand voltage:
 - 1000V AC, 1 min (Mutual between input output GND power terminal)
- Power supply: 24V DC ⁺¹⁰₋₁₅ %
- Transmitter power supply:

24V DC ±10%, 25 mA (w/ current-limiting circuit 40 mA)

- · Current consumption:
 - w/o transmitter power supply ... 140 mA max. (at 24V) w/ transmitter power supply ... 160 mA max. (at 24V)
- · Ambient temperature:
 - Normal operating condition; 5 to 45°C

Operation limit; -5 to 55°C

- Ambient humidity: 0 to 90%RH (No condensation allowed)
- · Mounting: File
- · Front mask color: Black
- · Weight: 250 g
- Operating influence:

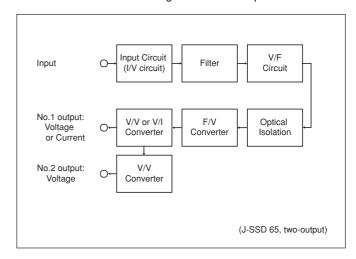
Supply voltage effect; ±0.1%FS/24V DC ⁺¹⁰₋₁₅ %

Temperature effect; ±0.15%FS/10℃



Theory of Operation

An input is converted into an appropriate mV (for amplification) by the Measuring circuit, and the Filter circuit removes any AC noise. The input voltage (converted into a rippleless DC voltage) is converted again into 1 to 5V DC by the ultra-low drift high performance amplifier. The 1 to 5V DC (passing through the V/I and F/V converters) is isolated by the photocoupler and is V/V- or V/I- converted for voltage or current output.



Model Number Table

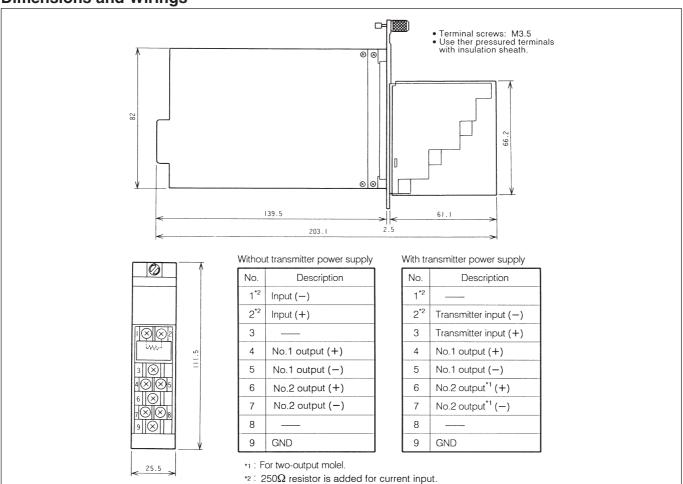
One-output model

One-output model:								
Basic Model Number		Selections		Additi ons	Description			
		I	l II	I				
J-SSD60					Isolator Module (One-output model)			
	Χ				No varnish coated			
	С				Varnish coated			
•		-1			Input signal: 1 to 5V DC			
		-2			Input signal: 4 to 20 mA DC			
		-3			Input signal: 4 to 20 mA DC (w/ transmitter 24V DC power supply)			
			1		Output signal: 1 to 5V DC			
			2		Output signal: 4 to 20 mA DC			
<u>-</u>			•	-0	Without test report			
				-1	With test report			

Example: J-SSD 60X-32-0

Two-output	mode				
Basic Model Number		Selections		Additi ons	Description
		I	1 11		
J-SSD65					Isolator Module
					(Two-output model)
	Х				No varnish coated
	С				Varnish coated
		-1			Input signal: 1 to 5V DC
		-2			Input signal: 4 to 20 mA DC
		-3			Input signal: 4 to 20 mA DC (w/ transmitter 24V DC power supply)
			1		No. 1 output signal: 1 to 5V DC, No. 2 output signal: 1 to 5V DC
			2		No. 1 output signal: 4 to 20 mA DC, No. 2 output signal: 1 to 5V DC
				-0	Without test report
				-1	With test report

Dimensions and Wirings



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http://www.azbil.com/products/bi/order.html

Specifications are subject to change without notice.

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Azbil Corporation

Advanced Automation Company

1-12-2 Kawana, Fujisawa Kanagawa 251-8522 Japan URL: http://www.azbil.com/