**Specification** 

## SystempaK (Analog/Single Case) Isolator Module Model J-SIP 60/65

### Introduction

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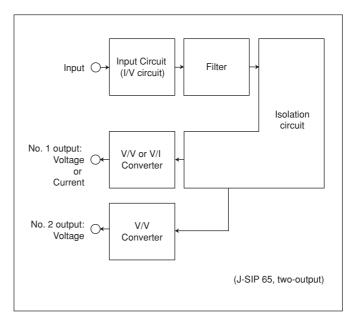
The Isolator Module (J-SIP60/65) is a signal conversion module housed in a single case and accepts a 1 to 5 VDC or 4 to 20 mA DC input and converts it into an isolated 1 to 5 V DC or 4 to 20 mA DC output signal. The Isolator Modules are available for one-output (J-SIP60) or two-output (J-SIP65) model. The Isolator Module with integrated transmitter power supply 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  $\Omega$  (current), 1 M $\Omega$  (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. • Output impedance:
- Voltage output; 250  $\Omega$  or less (No. 1 and No. 2 outputs) Current output; 250 k $\Omega$  or more (No. 1 output)
- + Load: 0 to 600  $\Omega$
- Output accuracy: ±0.15%FS (No. 1 and No. 2 outputs)
- Insulation resistance: 500V DC, 100 MΩ min (Mutual between input - output - GND - power terminal)
- Withstand voltage:
- 1000VAC, 1 min (Mutual between input output GND power terminal)
  Power supply: 24V DC <sup>10</sup>/<sub>15</sub>%
- 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 DC) w/ transmitter power supply ... 160 mA max. (at 24V DC)
- 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: Panel, Wall, DIN rail mounting
- Color of front mask: Black
- Weight: 400 g
- Operating influence:
- Supply voltage effect; ±0.1%FS/24V <sup>+10</sup><sub>-15</sub>DC% Temperature effect; ±0.15%FS/10°C

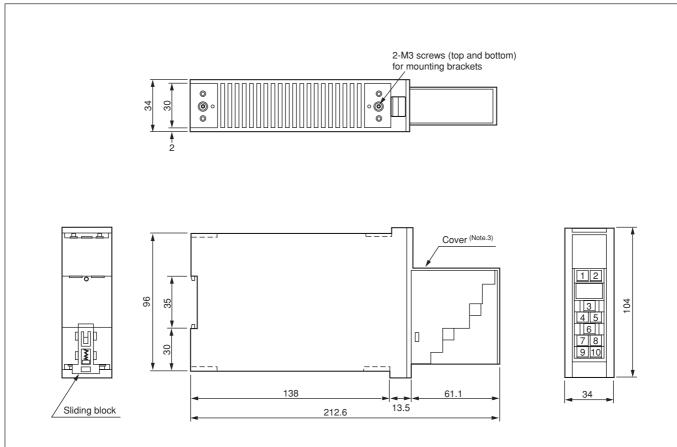


Theory of Operation An input is converted into an appropriate impedance by the Input circuit, and the Filter circuit removes any AC noise. The 1 to 5V DC (passing through the V/F and F/V converters) is isolated by the photocoupler and is V/V- or V/I-converted for voltage or current output.



Model Number Table	One-output model:	Basic Model Number		Selections		Additi ons	Description	
				I		I		
		J-SIP60					Isolator Module (One-output model)	
			Х				No varnish coated	
			С				Varnish coated	
				-1			Input signal: 1 - 5 V DC	
				-2			Input signal: 4 - 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	
						-0	Without test report	
						-1	With test report	

Two-output model:	Basic Model Number		Selections		Additi ons	Description
Woder Nu						
	J-SIP65					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



### Table 1. Without transmitter power supply

No.	Description					
1 (Note.2)	Input (-)					
2 <sup>(Note.2)</sup>	Input (+)					
3						
4	No.1 output (+)					
5	No.1 output (-)					
6	No.2 output (+)	(Note.1)				
7	No.2 output (-)	(Note.1)				
8	24V (PS+)					
9	GND					
10	0V (PS-)					

Table 2. With transmitter power supply

No.	Description				
1 (Note.2)					
2 <sup>(Note.2)</sup>	Transmitter Input (-)				
3	Transmitter Input (+)				
4	No.1 output (+)				
5	No.1 output (-)				
6	No.2 output (+) (Note.1)				
7	No.2 output (-) (Note.1)				
8	24V (PS+)				
9	GND				
10	0V (PS-)				

Note : 1) Only available for two-output model.

2) 250  $\Omega$  resister is added for current input.

3) Do not remove the cover during operation.

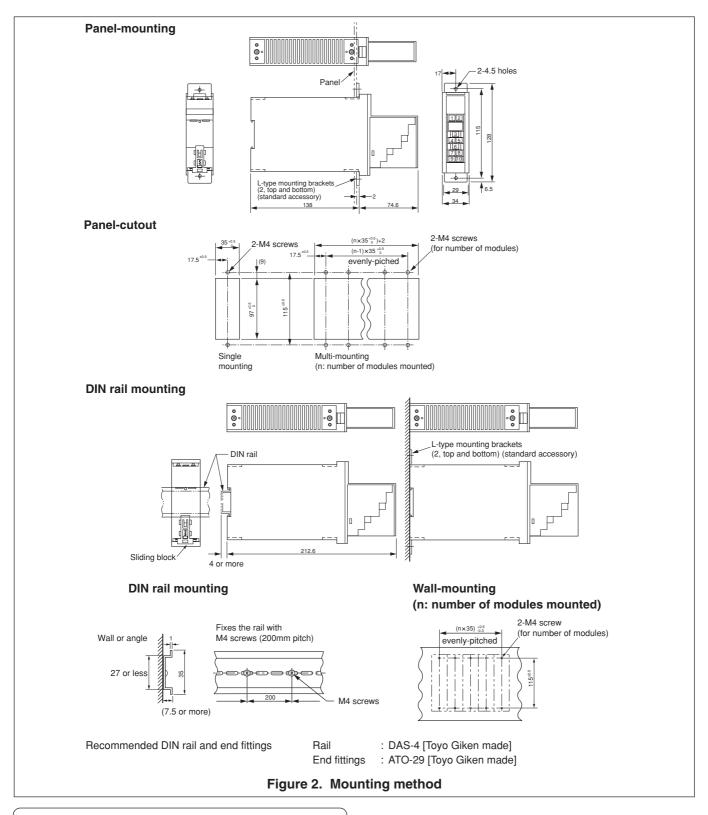
4) Terminal screws : M3.5

5) Use the terminal cramp with insulation sheath.

6) The model with Transmitter power supply, will be able to use as the

model without power supply by means of same connection per table 1.

### Figure 1. Dimensions and wirings



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Specifications are subject to change without notice.

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