

General Specifications

Model SISD(Style R)
Isolator

YEWSERIES 80

GS 01B04N01-02E

■ GENERAL

The Model SISD Isolator accepts a 1 to 5V DC input signal. The input signal is isolated from the power supply common and from the Isolator output signal. There are two outputs: 1 to 5V and 4 to 20mA DC.

■ STANDARD SPECIFICATIONS

Input Signal

Input: 1 to 5V DC(one input)
Load Resistance: 1 MΩ

Square Root Characteristic

Computation: $E_0 = 2\sqrt{E_1 - 1} + 1$

E_0 : Output Signal from computation function, E_1 : Input Signal

Lowcut Function: At E_1 is less than 1%, the output is proportional to input.

Output Signals

Output: 1 to 5V DC(one output), 4 to 20 mA DC(one output)
Load Resistance: At least 2 kΩ(1 to 5 V DC output), up to 750 Ω (4 to 20 mA DC output)

BRAIN Communication Function

Setting of each parameter, monitoring of input/output values, and configuration by JHT200 Handy Terminal or BT200 BRAIN Terminal.

■ MOUNTING AND APPEARANCE

Mounting: Rack mounting.

Wiring

Signal Wiring: ISO M4 size (4mm) screws on terminal block.

Power and Ground Wiring

100 V version: JIS C 8303 two-pin plug with earthing contact(IEC A5-15, UL458)

220 V version: CEE 7 VII(CENELEC standard) plug.

Cable Length: 300 mm.

External Dimensions: 180 (H)×48(W)×300 (D)
Depth behind panel(mm)

Weight: 1.7 kg (including case)

■ STANDARD PERFORMANCE

Accuracy: ±0.2% of span(±0.5% of span with square root characteristic)

Maximum Power Consumption:80 mA with 24 V DC supply, 6.5 VA with 100 V AC supply, 8.4 VA with 220 V AC supply.



Insulation Resistance

Between I/O terminals and Ground:100 MΩ/500 V DC
Between Power and Ground:100 MΩ/500 V DC.

Dielectric Strength

Between I/O terminals and Ground: 500 V AC for 1 minute.
Between Power and Ground:
1000 V AC for 1 minute(100 V version)
1500 V AC for 1 minute(220 V version)
Between Input terminal and Output terminal:
1000 V AC for 1 minute

■ NORMAL OPERATING CONDITIONS

Ambient Temperature: 0 to 50 °C

Ambient Humidity: 5 to 90% relative humidity (non-condensing)

Version	100 V	220 V
DC(polarity reversible)	20 to 130 V	120 to 340 V
AC(47 to 63 Hz)	80 to 138 V	138 to 264 V

Power Supply: Two versions, for "100 V" (standard) or "220 V"(option /A2ER). Both versions may use AC or DC, without change to the instrument:

■ OPTIONS

/A2ER: For "220 V version" with power supply.
/NHR: No case, plug-in instrument module only. See GS 1B4F2-E to order case separately.
/TB: For "100 V version" with power supply terminal.

■ ACCESSORIES

1A fuse, quantity one.

MODEL AND SUFFIX CODES

Model	Suffix Codes	Description
SISD -----	-----	Isolator
Number of Input	-1 -----	One input
Square Root Function	00 -----	Not provided
	01 -----	Provided
Style Code	*R -----	Style R
Option	/A2ER	220 V power supply
	/NHR	Without case
	/TB	Power supply terminal
	/FBP	Power supply fuse bypass
	/WSW	With spring washers for terminal
	/LOCK	With special lock

ORDERING INSTRUCTIONS

Specify the following when ordering:
Model and suffix codes and option codes, if necessary.

TERMINAL CONNECTIONS

Terminal Designation	Description
1	
2	
3	
4	
5	
6	
7	
8	

Terminal Designation	Description
A	
B	
C	
D	
F	
H	
J	
K	

When not using output, the terminals are opened.

EXTERNAL DIMENSIONS

