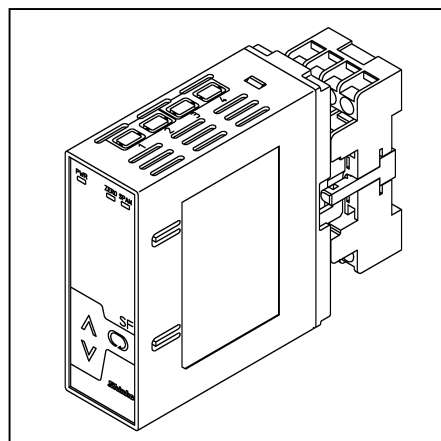
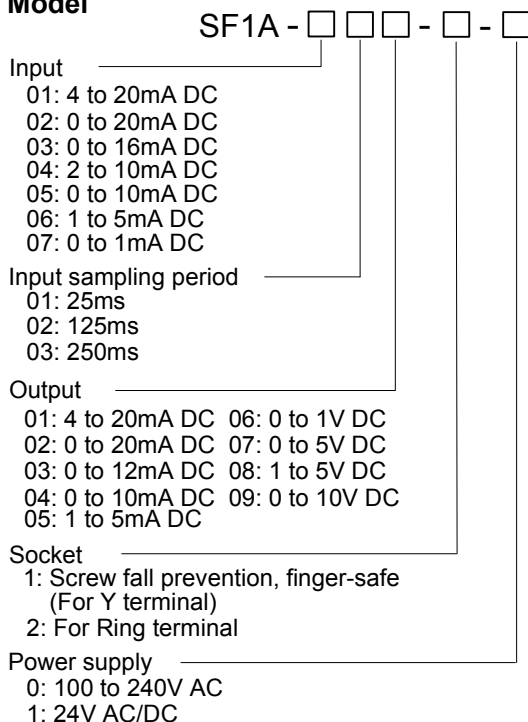


1ch Isolator

Model: **SF1A**

■ **Model**



■ **Output Specifications**

DC Current

Output range	Allowable load resistance	Zero adjustment range	Span adjustment range
4 to 20mA DC	700Ω or less	-5 to 5%	95 to 105%
0 to 20mA DC	700Ω or less	0 to 5%	95 to 105%
0 to 12mA DC	1.2kΩ or less	0 to 5%	95 to 105%
0 to 10mA DC	1.2kΩ or less	0 to 5%	95 to 105%
1 to 5mA DC	2.4kΩ or less	-5 to 5%	95 to 105%

DC Voltage

Output range	Allowable load resistance	Zero adjustment range	Span adjustment range
0 to 1V DC	100Ω or more	0 to 5%	95 to 105%
0 to 5V DC	500Ω or more	0 to 5%	95 to 105%
1 to 5V DC	500Ω or more	-5 to 5%	95 to 105%
0 to 10V DC	1kΩ or more	0 to 5%	95 to 105%

■ **How to Order**

Specify a model and input range.
(e.g.) SF1A-010101-1-0

Default value

Input	4 to 20mA DC
Output	4 to 20mA DC
Input sampling period	25ms

■ **Accessories (Sold Separately)**

Name	Model	Spec.	
Shunt Resistor	Ring terminal	RES-S01-050	50Ω±0.1%
		RES-S01-100	100Ω±0.1%
		RES-S01-200	200Ω±0.1%
		RES-S01-01K	1kΩ±0.1%
	Y terminal	RES-S06-050	50Ω±0.1%
		RES-S06-100	100Ω±0.1%
		RES-S06-200	200Ω±0.1%
		RES-S06-01K	1kΩ±0.1%

■ **Input Specifications**

DC current [Connect a shunt resistor (sold separately) between input terminals.]

Input range	Shunt resistor
4 to 20mA DC	50Ω
0 to 20mA DC	
0 to 16mA DC	
2 to 10mA DC	100Ω
0 to 10mA DC	
1 to 5mA DC	200Ω
0 to 1mA DC	1kΩ

■ **Performance**

Accuracy: Within ±0.2% of input span (at 23°C of ambient temperature)

Input sampling period: 25ms, 125ms, 250ms
(Must be specified.)

Response time:

65ms (typ.)(0→90%)(Input sampling period: 25ms)
225ms (typ.)(0→90%)(Input sampling period: 125ms)
425ms (typ.)(0→90%)(Input sampling period: 250ms)

Temperature coefficient: ±0.015%/°C or less

Insulation resistance: 10MΩ or more, at 500V DC
(Input - Output - Power)

Dielectric strength: 2.0kV AC for 1 minute
(Input - Output - Power)

■ **General Structure**

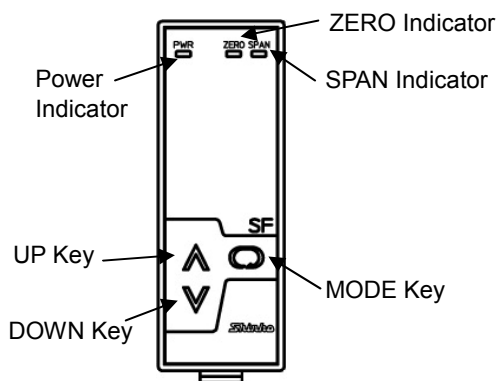
Case: Flame-resistant resin Color: Light gray
 Front panel: Membrane sheet

Adjustment: Using the front keypad

- (1) Press the MODE Key. The ZERO indicator becomes lit. The unit moves to the Output ZERO adjustment mode.
- (2) Press the MODE Key in the Output ZERO adjustment mode. The SPAN indicator becomes lit. The unit moves to the Output SPAN adjustment mode.
- (3) Pressing the MODE Key returns to Step (1).
 If the MODE Key is pressed for approx 3 sec, or if no operation occurs for approx. 30 sec, the unit will revert to the RUN mode.

Indication:

- PWR indicator (Green):**
 Lit when power is turned ON.
 Flashes in 0.5 second cycles if non-volatile memory errors occur.
 Flashes in 0.25 second cycles if input errors occur.
- ZERO indicator (Yellow):**
 Lit in the Output ZERO adjustment mode.
- SPAN indicator (Yellow):**
 Lit in the Output SPAN adjustment mode.



■ **Installation Specifications**

- Power supply: 100 to 240V AC 50/60Hz
 24V AC/DC 50/60Hz
- Allowable voltage range: 85 to 264V AC
 20 to 28V AC/DC
- Power consumption: Approx. 6VA
- Ambient temperature: -5 to 55°C
- Ambient humidity: 35 to 85%RH (non-condensing)
- Weight: Approx. 190g (including socket)
- Mounting: DIN rail
- Dimensions: W30 x H88 x D108mm (including socket)

■ **Attached Functions**

- Power failure countermeasure:**
 The data is backed up in non-volatile IC memory.
- Self diagnosis:**
 The CPU is monitored by a watchdog timer, and when an abnormal status is found on the CPU, the unit is switched to warm-up status turning all outputs OFF.

■ **Environmental Specifications**

RoHS directive compliance

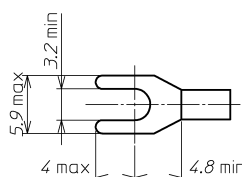
■ **Settings**

Function keys

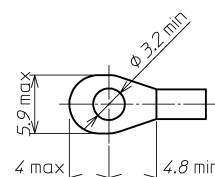
- (1) UP Key: Increases a numerical value.
- (2) DOWN Key: Decreases a numerical value.
- (3) MODE Key: Switches from RUN mode to the Adjustment mode, and registers the adjustment value.

■ **Solderless Terminals**

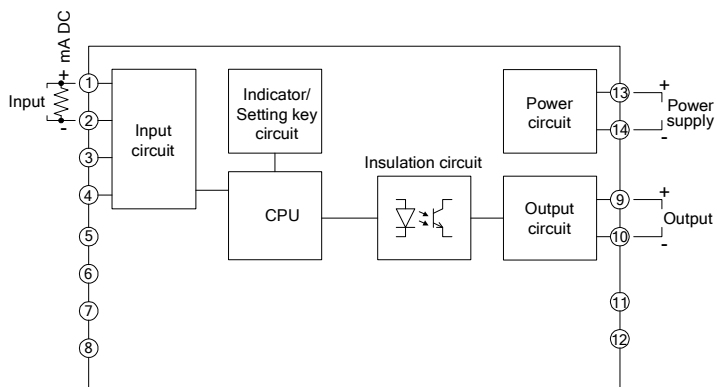
Y Terminal



Ring Terminal



■ **Circuit Configuration, Terminal Arrangement**



■ **External Dimensions (Scale: mm)**

