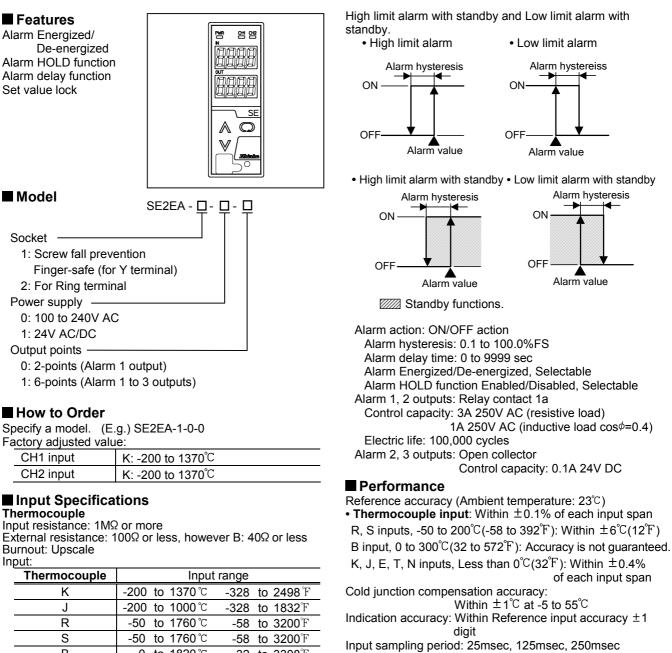
# *Shinko* SE Series

#### **SPEC SHEET**

2ch Alarm Detector (Thermocouple) (with two large displays) Model: SE2EA



S	-50 to 1760 ℃	-58 to 3200°F
В	0 to 1820 ℃	32 to 3308°F
E	-200 to 800 ℃	-328 to 1472°F
Т	-200 to 400 ℃	-328 to 752 °F
Ν	-200 to 1300 ℃	-328 to 2372°F
PL-Ⅱ	0 to 1390 ℃	32 to 2534°F
W5Re/W26Re	0 to 2315 ℃	32 to 4199°F
W3Re/W25Re	0 to 2315℃	<b>32 to 4199</b> °F

Minimum span: 50°C (100°F)

#### Output Specifications

A maximum of 3 points of alarm output are available for one input.

For each alarm output, one of the following types can be selected in [Alarm type]: High limit alarm, Low limit alarm,

(Input - Output - Power)

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

(Selectable by keypad)

(Input - Output - Power)

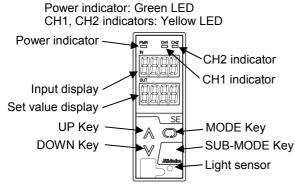
Setting: Using the front keypad

Display: Input display: 7-segment Red LED display

Temperature coefficient:  $\pm 0.015\%$ /°C or less Insulation resistance:  $10M\Omega$  or more, at 500V DC

Dielectric strength: 1.5kV AC for 1 minute

4-digit, Character size, 10x4.6mm (HxW) Set value display: 7-segment Red LED display 4-digit, Character size, 10x4.6mm (HxW)



# 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. 9VA Ambient temperature: -5 to 55°C Ambient humidity: 35 to 85%RH (non-condensing) Mounting: DIN rail External dimensions: W30xH88xD108mm (socket included)

Weight: Approx. 200g (socket included)

#### Attached Functions

Auto-light function: Automatically measures and controls brightness of the displays to conserve power.

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. Cold junction temperature compensation: Available

### Environmental Specification

RoHS directive compliance

#### Settings

#### Function keys

- (1) UP Key: Increases a numerical value.
- (2) DOWN Key: Decreases a numerical value.
- (3) MODE Key: Selects a setting mode.
- (4) SUB-MODE Key: Re-lights displays. (UP Key, DOWN Key or MODE Key also re-lights displays.)

#### Displays and Indicator

Input display: Indicates the input value.

- Indication of -200.0 or less (ranges with decimal point): The minus (-) sign and input value light alternately.
- Under range: -10% of input span or less:
- "\_\_\_\_" flashes on the Input display. Over range: 110% of input span or more:
- " flashes on the Input display. Warm-up indication: The CH1 input type is displayed on the Input display, CH2 input type is displayed on the Set
- value display for 3 sec after power is turned ON. Set value display: Alarm 1 (A1), Alarm 2 (A2), Alarm 3 (A3) values are indicated (follows the selection in
  - "Display selection".). If the UP Key is pressed for 1 second during alarm value

indication, alarm values will be switched thus.

 $(A1 \rightarrow A2 \rightarrow A3 \rightarrow A1)$ 

When power is turned ON, A1 value is indicated. When alarm output is ON, the relevant CH1/CH2 indicator with the alarm ON flashes, and " $\vec{A}'_{L} \vec{o}$ " and the value selected in [Display selection] are alternately indicated on the Set value display. If the UP Key is pressed together with the DOWN Key in the above status, the alarm output being turned ON will be displayed.

(E.g.) If CH1 Alarm 1 and CH2 Alarm 3 outputs are ON, " l - R l" and " $\vec{c} - R \vec{d}$ " are displayed in order.

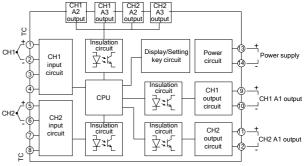
Power indicator (green): Lit when power is turned ON. CH1 indicator (yellow): Lit when CH1 is selected in [Display selection].

CH2 indicator (yellow): Lit when CH2 is selected in [Display selection].

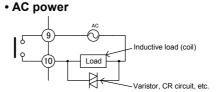
Ferrules Y terminal



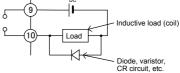




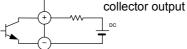
# Alarm 1 output: Take the following measures for relay contact protection and noise reduction.







Alarm 2, 3 outputs: Connection example of Open



# External Dimensions (Scale: mm)

