

# Single-phase Voltage Relay

## K8AB-VS

**Ideal for voltage monitoring for industrial facilities and equipment.**

- Monitor for overvoltages or undervoltages.
- Manual resetting and automatically resetting supported by one Relay.
- One SPDT output relay, 6 A at 250 VAC (resistive load).
- Output relay can be switched between normally open and normally closed.
- Process control signal (0 to 10 V) and current splitter input supported.
- Output status can be monitored using LED indicator.
- Input frequency of 40 to 500 Hz supported.
- Inputs are isolated from the power supply.



## Model Number Structure

### Model Number Legend

**K8AB-□□□□**

1      2      3      4

#### 1. Basic Model

K8AB: Measuring and Monitoring Relays

#### 2. Functions

VS: Single-phase Voltage Relay (One-sided operation)

#### 3. Measuring Current

1: 6 to 60 mV AC/DC, 10 to 100 mV AC/DC, 30 to 300 mV AC/DC

2: 1 to 10 V AC/DC, 3 to 30 V AC/DC, 15 to 150 V AC/DC

3: 20 to 200 V AC/DC, 30 to 300 V AC/DC, 60 to 600 V AC/DC

#### 4. Supply Voltage

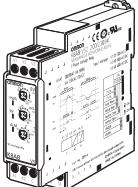
24 VAC/DC: 24 VAC/DC

100-115 VAC: 100 to 115 VAC

200-230 VAC: 200 to 230 VAC

## Ordering Information

### List of Models

Single-phase Voltage Relay	Measuring voltage	Supply voltage	Model
	6 to 60 mV AC/DC, 10 to 100 mV AC/DC, 30 to 300 mV AC/DC	24 VAC/DC 100-115 200-230 VAC	K8AB-VS1 24 VAC/DC K8AB-VS1 100-115 VAC K8AB-VS1 200-230 VAC
	1 to 10 V AC/DC, 3 to 30 V AC/DC, 15 to 150 V AC/DC	24 VAC/DC 100-115 VAC 200-230 VAC	K8AB-VS2 24 VAC/DC K8AB-VS2 100-115 VAC K8AB-VS2 200-230 VAC
	20 to 200 V AC/DC, 30 to 300 V AC/DC, 60 to 600 V AC/DC	24 VAC/DC 100-115 VAC 200-230 VAC	K8AB-VS3 24 VAC/DC K8AB-VS3 100-115 VAC K8AB-VS3 200-230 VAC

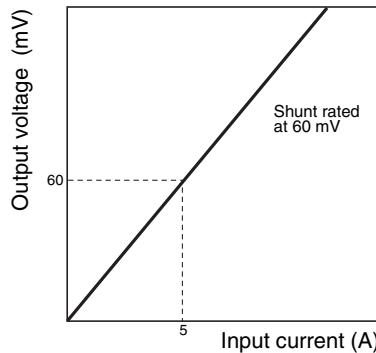
### Shunts (Order Separately)

A shunt is a resistor to convert a DC current into a DC voltage.

Use the shunt in combination with K8AB-VS to detect undercurrent and overcurrent in DC circuits.

Model	Rated current	Output voltage
SDV-SH5	5 A	60 mV
SDV-SH7.5	7.5 A	60 mV
	7.5 A (for 100 mV)	100 mV
SDV-SH10	10 A	60 mV
SDV-SH15	15 A	
SDV-SH20	20 A	
SDV-SH30	30 A	
SDV-SH50	50 A	
SDV-SH75	75 A	
SDV-SH100	100 A	
SDV-SH150	150 A	
SDV-SH200	200 A	
SDV-SH300	300 A	
SDV-SH500	500 A	
SDV-SH750	750 A	
SDV-SH1000	1,000 A	

#### Characteristics SDV-SH5A (Rated Current: 5 A)



**Note:**

1. All the above listed shunts have an accuracy in the 1.0 class.
2. Select a shunt whose rated current is more than 120% of the current normally flowing in a circuit. The characteristics of the shunt may change or fusing of a resistor element may occur if an overload that is 1,000% of the rated current is applied. Therefore, determine the rated current of the shunt to be used, by taking the circuit conditions into account.

## Ratings and Specifications

### Input Range

Model	Range *	Connection terminal	Measuring voltage	Input impedance	Overload capacity
K8AB-VS1	0 to 60 mV AC/DC	V1-COM	6 to 60 mV AC/DC, 10 to 100 mV AC/DC, 30 to 300 mV AC/DC	Approx. 220 kΩ	Continuous input : 115% of maximum input 10 s max. : 125% of maximum input
	0 to 100 mV AC/DC	V2-COM		Approx. 230 kΩ	
	0 to 300 mV AC/DC	V3-COM		Approx. 260 kΩ	
K8AB-VS2	0 to 10 V AC/DC	V1-COM	1 to 10 V AC/DC, 3 to 30 V AC/DC, 15 to 150 V AC/DC	Approx. 120 kΩ	Continuous input : 115% of maximum input 10 s max. : 125% of maximum input
	0 to 30 V AC/DC	V2-COM		Approx. 320 kΩ	
	0 to 150 V AC/DC	V3-COM		Approx. 1.6 MΩ	
K8AB-VS3	0 to 200 V AC/DC	V1-COM	20 to 200 V AC/DC, 30 to 300 V AC/DC, 60 to 600 V AC/DC	Approx. 1.2 MΩ	Continuous input : 115% of maximum input 10 s max. : 125% of maximum input
	0 to 300 V AC/DC	V2-COM		Approx. 1.7 MΩ	
	0 to 600 V AC/DC	V3-COM		Approx. 3.1 MΩ	

\*The range is selected using connected terminals.

## Ratings

<b>Power supply voltage</b>	<b>Isolated power supply</b>	24 VDC, 24 VAC, 100 to 115 VAC, 200 to 230 VAC
<b>Power consumption</b>		24 VDC: 1 W max. 24 VAC: 4 VA max. 100 to 115 VAC: 4 VA max. 200 to 230 VAC: 5 VA max.
<b>Operating value setting range (SV)</b>		10% to 100% of maximum measuring voltage K8AB-VS1: 6 to 60 mV AC/DC 10 to 100 mV AC/DC 30 to 300 mV AC/DC K8AB-VS2: 1 to 10 V AC/DC 3 to 30 V AC/DC 15 to 150 V AC/DC K8AB-VS3: 20 to 200 V AC/DC 30 to 300 V AC/DC 60 to 600 V AC/DC
<b>Operating value</b>		100% operation at set value
<b>Reset value setting range (HYS.)</b>		5% to 50% of operating value
<b>Reset method</b>		Manual reset/automatic reset (switchable) <b>Note:</b> Manual reset: Turn OFF power supply for 1 s or longer.
<b>Operating time setting range (T)</b>		0.1 to 30 s
<b>Power ON lock time (LOCK)</b>		1 s or 5 s (Switched using DIP switch.)
<b>Indicators</b>		Power (PWR): Green, Relay output (RY): Yellow, Alarm outputs (ALM): Red
<b>Input impedance</b>		Refer to "Input Range" on previous page.
<b>Output relays</b>		One SPDT relay (NO/NC switched using DIP switch.)
<b>Output relay ratings</b>		Rated load Resistive load 6 A at 250 VAC ( $\cos\phi = 1$ ) 6 A at 30 VDC (L/R = 0 ms) Inductive load 1 A at 250 VAC ( $\cos\phi = 0.4$ ) 1 A at 30 VDC (L/R = 7 ms) Maximum contact voltage: 250 VAC Maximum contact current: 6 A AC Maximum switching capacity: 1,500 VA Minimum load: 10 mA at 5 VDC Mechanical life: 10,000,000 operations Electrical life: Make: 50,000 times, Break: 30,000 times
<b>Ambient operating temperature</b>		-20 to 60°C (with no condensation or icing)
<b>Storage temperature</b>		-40 to 70°C (with no condensation or icing)
<b>Ambient operating humidity</b>		25% to 85% (with no condensation)
<b>Storage humidity</b>		25% to 85% (with no condensation)
<b>Altitude</b>		2,000 m max.
<b>Terminal screw tightening torque</b>		0.49 N·m
<b>Terminal wiring method</b>		Recommended wire Solid wire: 2.5 mm <sup>2</sup> Twisted wires: AWG16, AWG18 <b>Note:</b> 1. Ferrules with insulating sleeves must be used with twisted wires. 2. Two wires can be twisted together. Recommended ferrules AI 1,5-8BK (for AWG16) manufactured by Phoenix Contact AI 1-8RD (for AWG18) manufactured by Phoenix Contact AI 0,75-8GY (for AWG18) manufactured by Phoenix Contact
<b>Case color</b>		Munsell 5Y8/1
<b>Case material</b>		PBT/ABS resin (self-extinguishing resin) UL94-V0
<b>Weight</b>		Approx. 130 g
<b>Mounting</b>		Mounted to DIN Track or via M4 screws (tightening torque: 1.2 N·m)
<b>Dimensions</b>		22.5 (W) × 90 (H) × 100 (D) mm

## Specifications

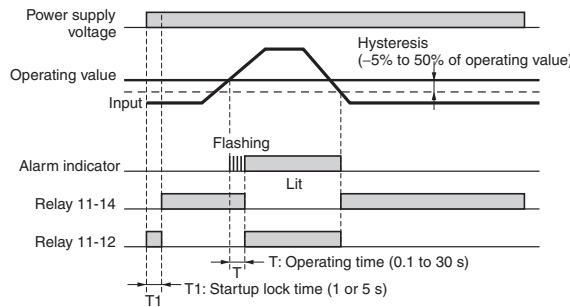
<b>Allowable power supply voltage range</b>		85% to 110% of power supply voltage
<b>Allowable power supply frequency range</b>		50/60 Hz $\pm 5$ Hz
<b>Input frequency range</b>		DC input or AC input (40 to 500 Hz)
<b>Overload capacity</b>		Continuous input: 115% of maximum input, 10 s max.: 125% of maximum input
<b>Setting error</b>	<b>Operating value</b>	
	<b>Reset value</b>	Set value $\pm 10\%$ full scale
	<b>Operating time</b>	
	<b>Power ON lock time</b>	Set value $\pm 0.5$ s
<b>Repeat error</b>	<b>Operating value</b>	Operating value $\pm 2\%$ Error calculation: Error = ((Maximum operating value – Minimum operating value (over 10 operations))/2)/Average value $\times 100\%$
	<b>Reset value</b>	Reset value $\pm 2\%$ Error calculation: Error = ((Maximum reset value – Minimum reset value (over 10 resets))/2)/Average value $\times 100\%$
	<b>Operating time</b>	Operating time repeat error: $\pm 50$ ms Overvoltage: Measured when input suddenly changes from 0% to 120% of setting. Undervoltage: Measured when input suddenly changes from 120% to 0% of setting.
	<b>Power ON lock time</b>	Power ON lock time repeat error: $\pm 0.5$ s (The operating time when the operating time is set to the minimum value and the power supply suddenly changes from 0% to 100%).
<b>Temperature influence</b>		Operating value Drift based on measured value at standard temperature: –20°C to standard temperature: $\pm 1,000$ ppm/°C max. Standard temperature to 60°C : $\pm 1,000$ ppm/°C max. (Humidity: 25% to 80%) Operating time Fluctuation based on measured value at standard temperature: –20°C to standard temperature: $\pm 10\%$ max. Standard temperature to 60°C : $\pm 10\%$ max. (Humidity: 25% to 80%)
<b>Humidity influence</b>		Operating value Based on ambient humidity of 65% 25% to 80%: $\pm 5\%$ max. Operating time Based on ambient room humidity 25% to 80%: $\pm 10\%$ max.
<b>Influence of power supply voltage</b>		Operating value: $\pm 5\%$ max. Operating time: $\pm 10\%$ max. <b>Note:</b> The error in the operating value and operating time under standard conditions.
<b>Influence of power supply frequency</b>		Operating value: $\pm 5\%$ max. (at 45 to 65 Hz) Operating time: $\pm 10\%$ max. (at 45 to 65 Hz) <b>Note:</b> The error in the operating value and operating time under standard conditions.
<b>Influence of input frequency</b>		At 40 to 500 Hz Operating value $\pm 5\%$ max. Operating time $\pm 10\%$ max. <b>Note:</b> The error in the operating value and operating time under standard conditions.
<b>Applicable standards</b>	<b>Conforming standards</b>	EN60255-5 and EN60255-6 Installation environment (Pollution Degree 2, Overvoltage Category III)
	<b>EMC</b>	EN61326
	<b>Safety standards</b>	UL508
<b>Insulation resistance</b>		20 M $\Omega$ min. Between external terminals and case Between power supply terminals and input terminals (excluding models with DC power supply) Between power supply terminals and output terminals Between input terminals and output terminals
<b>Dielectric strength</b>		2,000 VAC for one minute Between external terminals and case Between power supply terminals and input terminals (excluding models with DC power supply) Between power supply terminals and output terminals Between input terminals and output terminals
<b>Noise immunity</b>		1,500 V power supply terminal common/normal mode Square-wave noise of $\pm 1$ $\mu$ s/100 ns pulse width with 1-ns rise time
<b>Vibration resistance</b>		Frequency 10 to 55 Hz, 0.35-mm single amplitude, acceleration 50 m/s $^2$ 10 sweeps of 5 min each in X, Y, and Z directions
<b>Shock resistance</b>		100 m/s $^2$ , 3 times each in 6 directions along three axes (up/down, left/right, forward/backward)
<b>Degree of protection</b>		Terminal section: Finger protection

## Connections

### Wiring Diagram

#### Overvoltage Operation Diagram (Output Relay Drive Method : Normally Closed)

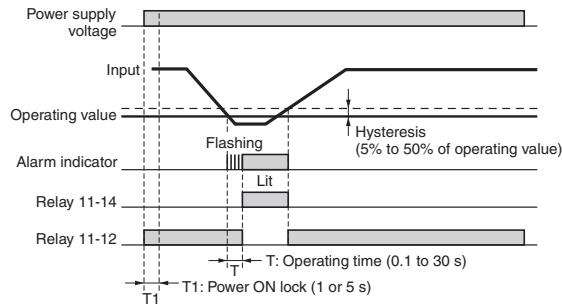
DIP switch setting: SW3 ON.



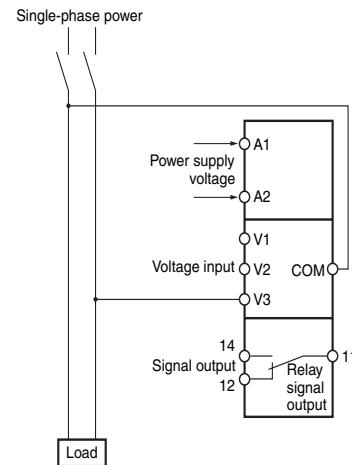
**Note:** The power ON lock prevents unnecessary alarms from being generated during the unstable period when the power is first turned on. There is no relay output during timer operation.

#### Undervoltage Operation Diagram (Output Relay Drive Method: Normally Open)

DIP switch setting: SW3 OFF.



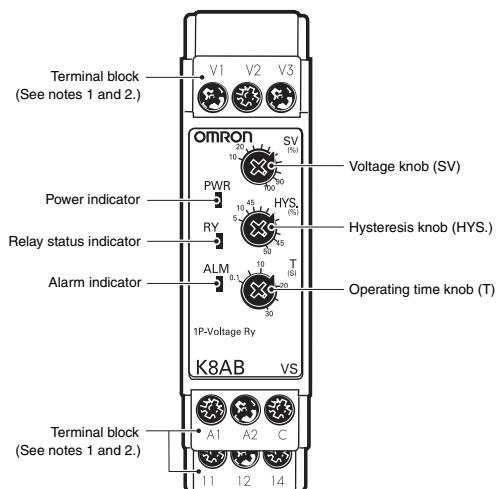
**Note:** The power ON lock prevents unnecessary alarms from being generated during the unstable period when the power is first turned on. There is no relay output during timer operation.



**Note:** There is no polarity when a DC current input is used.

## Nomenclature

## Front



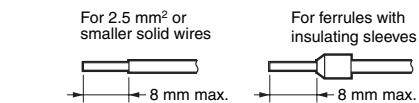
## Indicators

Item	Meaning
Power indicator (PWR: Green)	Lit when power is being supplied.
Relay status indicator (RY: Yellow)	Lit when relay is operating
Alarm indicator (ALM: Red)	Lit when there is an overvoltage or undervoltage. The indicator flashes to indicate the error status after the input has exceeded the threshold value while the operating time is being clocked.

## Setting Knobs

Item	Usage
Voltage knob (SV)	Used to set the voltage to 10% to 100% of maximum measuring voltage.
Hysteresis knob (HYS.)	Used to set the rest value to 5% to 50% of the operating value.
Operating time knob (T)	Used to set the operating time to 0.1 to 30 s.

**Note: 1.** Use either a solid wire of 2.5 mm<sup>2</sup> maximum or a ferrule with insulating sleeve for the terminal connection. The length of the exposed current-carrying part inserted into the terminal must be 8 mm or less to maintain dielectric strength after connection.



Recommended ferrules  
Phoenix Contact  

- AI 1,5-8BK (for AWG16)
- AI 1-8RD (for AWG18)
- AI 0,75-8GY (for AWG18)

2. Tightening torque  
Recommended: 0.49 N·m  
Maximum: 0.54 N·m

## Operation and Setting Methods

### Setting Ranges and Wiring Connections

Model	Measuring current	Wiring connection
K8AB-VS1	6 to 60 mV AC/DC	V1-COM
	10 to 100 mV AC/DC	V2-COM
	30 to 300 mV AC/DC	V3-COM
K8AB-VS2	1 to 10 V AC/DC	V1-COM
	3 to 30 V AC/DC	V2-COM
	15 to 150 V AC/DC	V3-COM
K8AB-VS3	20 to 200 V AC/DC	V1-COM
	30 to 300 V AC/DC	V2-COM
	60 to 600 V AC/DC	V3-COM

### Connections

#### 1. Input

Connect the input between terminals V1-COM, V2-COM, or V3-COM, depending on the input voltage.

Malfunctions may occur if the input is connected to unused terminals and the Unit will not operate correctly.

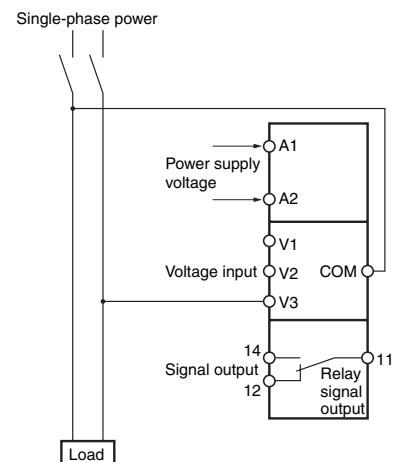
#### 2. Power Supply

Connect the power supply to terminals A1 and A2.

#### 3. Outputs

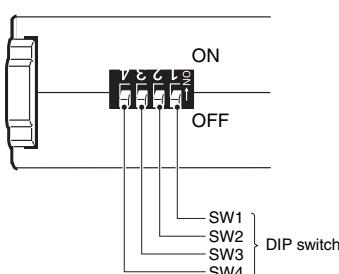
SPDT relays are output to terminals 11, 12, and 14.

**Note:** Use the recommended ferrules if using twisted wires.



### DIP Switch Settings

The power ON lock time, resetting method, relay drive method, and operating mode are set using the DIP switch located on the bottom of the Unit.



#### DIP Switch Functions

SWITCH	ON ● ↑ OFF ○ ↓	4 ON OFF	3	2	1
Power ON lock time	5 s	---	---	---	●
	1 s	---	---	---	○
Resetting method	Automatic reset	---	---	●	---
	Manual reset	---	---	○	---
Relay drive method	Normally closed	---	●	---	---
	Normally open	---	○	---	---
Operating mode	Undervoltage	●	---	---	---
	Overvoltage	○	---	---	---

**Note:** All pins are set to OFF at the factory.

## Setting Method

### 1. Setting Voltage

The voltage knob (SV) is used to set the voltage.

The voltage can be set to 10% to 100% of the maximum measuring voltage.

Turn the knob while there is an input to the input terminals until the alarm indicator flashes (when the set value and the input have reached the same level.)

Use this as a guide to set the voltage.

The maximum measuring voltage will differ depending on the model and the input terminal.

Example: K8AB-VS3 Using Input Terminal V3-COM

The maximum measuring voltage will be 600 VAC/VDC and the setting range will be 60 to 600 V.

### 2. Hysteresis

Hysteresis is set using the hysteresis knob (HYS.)

The setting range is 5 to 50% of the operating value.

Turn the knob while there is an input to the input terminals until the alarm indicator flashes (when the setting and the input have reached the same level.)

Use this as a guide to set the hysteresis.

Example: Maximum Setting of 600 VAC/VDC, Voltage Setting (SV) of 50%, and Overvoltage Operation

Operation will be at 300 V and resetting at 270 V when the hysteresis (HYS.) is set to 10%.

### 3. Operating Time

The operating time is set using the operating time knob (T).

The operating time can be set to between 0.1 and 30 s.

Turn the knob while there is an input to the input terminals until the alarm indicator flashes (when the set value and the input have reached the same level.)

Use this as a guide to set the operating time.

If the input voltage exceeds (or drops lower than) the voltage setting, the alarm indicator will start flashing for the set period and then stay lit.

## Dimensions

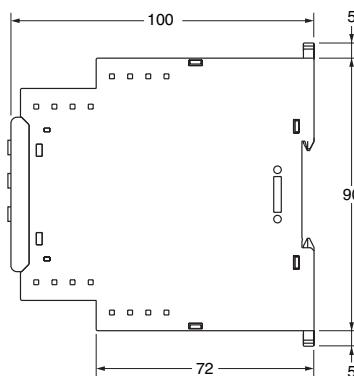
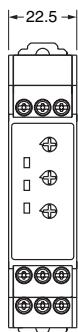
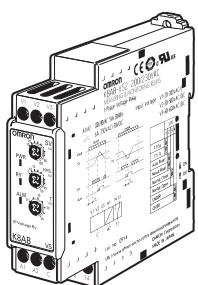
(Unit: mm)

### Single-phase Voltage Relays

K8AB-VS1

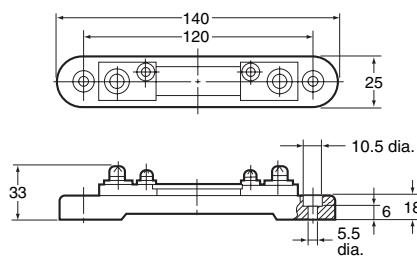
K8AB-VS2

K8AB-VS3



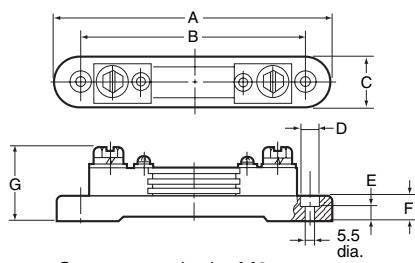
## Shunts

### SDV-SH5 to SDV-SH50 (60-mV Rating)



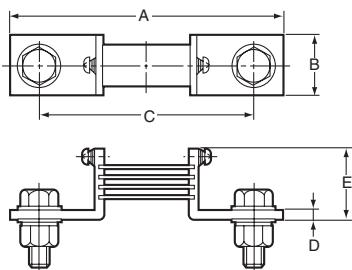
Current terminal: M6 screw  
Voltage terminal: M4 screw

### SDV-SH75 to SDV-SH200 (60-mV Rating)



Current terminal: M8 screw  
Voltage terminal: M4 screw

Model	A	B	C	D	E	F	G
SDV-SH75	140	120	25	10.5	6	18	36
SDV-SH100	140	120	25	10.5	6	18	36
SDV-SH150	140	120	25	10.5	6	18	43
SDV-SH200	140	120	25	10.5	6	18	43

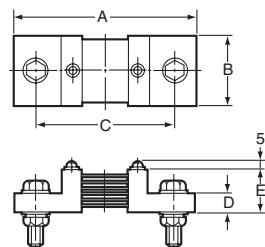
**SDV-SH300/-SH500 (60-mV Rating)**

Current terminal: M10 screw (SDV-SH300),  
M12 screw (SDV-SH500)

Voltage terminal: M4 screw

Model	A	B	C	D	E	Resistor
SDV-SH300	130	30	110	4	36	4
SDV-SH500	160	40	120	6	41	5

**Note:** Inquire about models with a rated current of 1,500 A or larger.

**SDV-SH750/-SH1000 (60-mV Rating)**

Current terminal: M12 screw  
Voltage terminal: M5 screw

Model	A	B	C	D	E
SDV-SH750	175	45	130	15	30
SDV-SH1000	175	60	135	18	30

## Questions and Answers

### Q Checking Operation

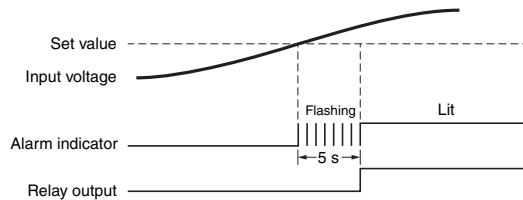
#### A Overvoltages

Gradually increase the input from 80% of the setting. The input will equal the operating value when the input exceeds the setting and the alarm indicator starts flashing. Operation can be checked by the relay outputs that will start after the operating time has passed.

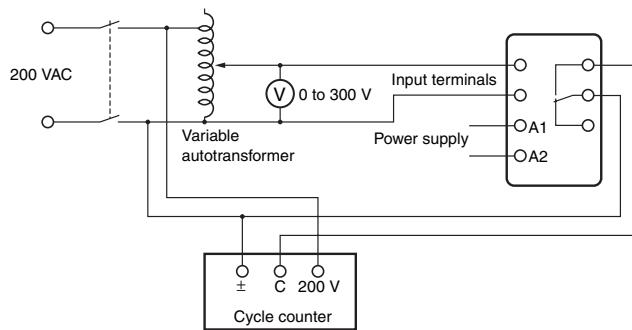
#### Undervoltage

Gradually decrease the input from 120% of the setting and check the operation using the same method as for overvoltage.

**Example:** Overvoltage Operating Mode and an Operating Time of 5 s  
**Note:** K8AB-VS□ output relays are normally operative.



### Connection Diagram



### Q How to Measure the Operating Time

#### A Overvoltage

Change the input suddenly from 0% to 120% of the set value and measure the time until the Unit operates.

#### Undervoltage

Change the input suddenly from 120% to 0% of the set value and measure the time until the Unit operates.

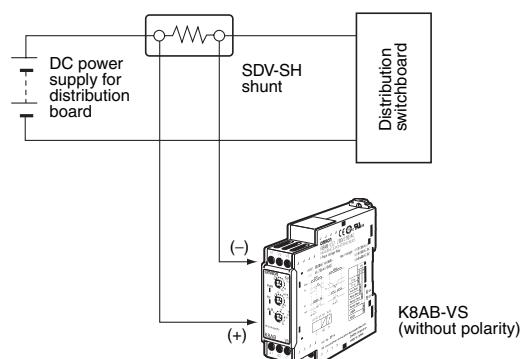
### Q Operating Adjustment Knobs

**A** Use a screwdriver to turn the knobs. There is a stopper to prevent the knob from turning any further once it has been turned completely to the left or right. Do not force the knob past these limits.

### Q Detecting Current with a Current Splitter

**A** An example of detecting an overload is shown below.

**Example:** Overload detection in a distribution switch board installed in a power substation.







# Warranty and Application Considerations

## Read and Understand this Catalog

Please read and understand this catalog before purchasing the products. Please consult your OMRON representative if you have any questions or comments.

## Warranty and Limitations of Liability

### WARRANTY

OMRON's exclusive warranty is that the products are free from defects in materials and workmanship for a period of one year (or other period if specified) from date of sale by OMRON.

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## Application Considerations

### SUITABILITY FOR USE

OMRON shall not be responsible for conformity with any standards, codes, or regulations that apply to the combination of products in the customer's application or use of the products.

Take all necessary steps to determine the suitability of the product for the systems, machines, and equipment with which it will be used. Know and observe all prohibitions of use applicable to this product.

NEVER USE THE PRODUCTS FOR AN APPLICATION INVOLVING SERIOUS RISK TO LIFE OR PROPERTY WITHOUT ENSURING THAT THE SYSTEM AS A WHOLE HAS BEEN DESIGNED TO ADDRESS THE RISKS, AND THAT THE OMRON PRODUCTS ARE PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM.

## Disclaimers

### PERFORMANCE DATA

Performance data given in this catalog is provided as a guide for the user in determining suitability and does not constitute a warranty. It may represent the result of OMRON's test conditions, and the users must correlate it to actual application requirements. Actual performance is subject to the OMRON *Warranty and Limitations of Liability*.

### CHANGE IN SPECIFICATIONS

Product specifications and accessories may be changed at any time based on improvements and other reasons. Consult with your OMRON representative at any time to confirm actual specifications of purchased product.

### DIMENSIONS AND WEIGHTS

Dimensions and weights are nominal and are not to be used for manufacturing purposes, even when tolerances are shown.

### ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.

To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.

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Industrial Automation Company

**Control Devices Division H.Q.**  
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