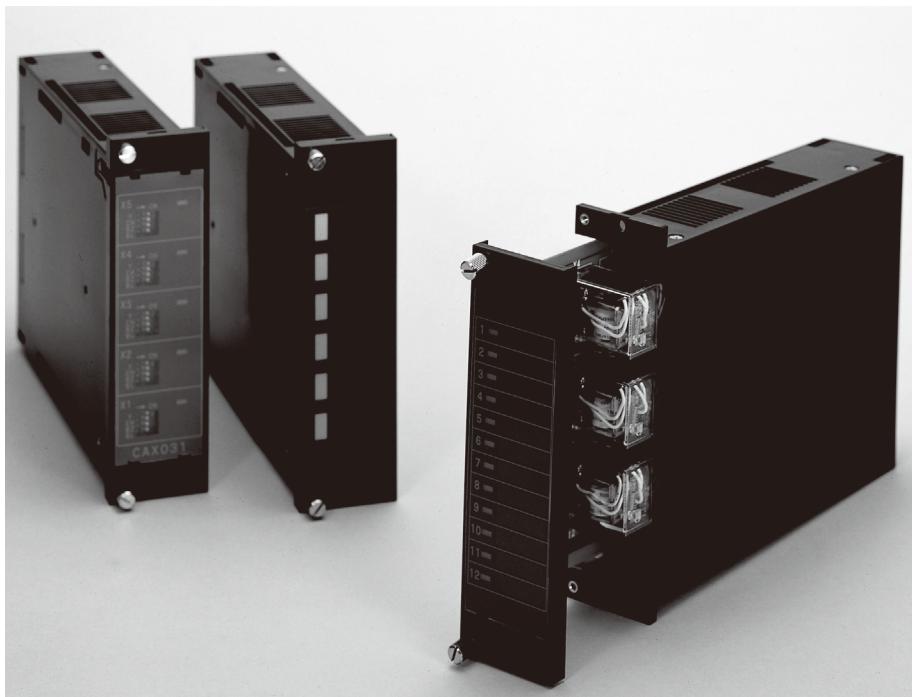




Annunciator relay

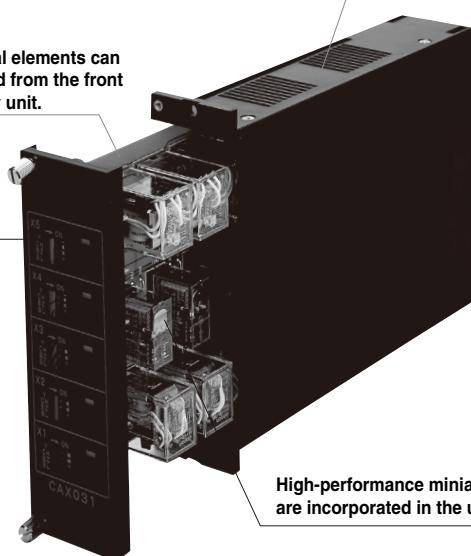
# CAX-TYPE



The relay case is made of a combination of plastic and metal, ensuring light weight and high unit strength.

The internal elements can be removed from the front of the relay unit.

Operation indicator LED  
(except for some models)



All wires can be connected from the back of the relay unit.

## FEATURES

**1**

With built-in high-performance relays, CAX type annulator relay enables fault detection with high reliability.

**4**

Common circuits can be connected with crossover wiring.

**2**

CAX type provides a variety of sequences, suitable for applications.

**5**

The internal relay status can be easily checked with the operation LED at the front of the unit.

**3**

With the card relay structure, maintenance from the front of the relay unit is available.

**6**

CAX type incorporates up to 12 circuit elements which enables high-density mounting.

## SPECIFICATION (RATINGS AND PERFORMANCE)

Specificalon	Type	CAX-021	CAX-031 CAX-032	CAX-041	CAX-051	CAX-061	CAX-071 CAX-072 CAX-073	CAX-081 CAX-082	
Rated insulation voltage (Ui)	250V AC / DC								
Rated operating voltage (Ith)	100 / 110 V DC (For indication: 24 V DC)	100 / 110 V DC	100 / 110 V DC (For indication: 24 V DC)	100 / 110 V DC	100 / 110 V DC (CAX-073: 100 / 110 V AC)	100 / 110 V DC			
No. of built-in elements (circuits)	12 elements	5 elements	8 elements	11 elements	5 elements	(CAX-71) 6 elements (CAX-81) 6 elements (CAX-82) 5 elements			
Power supply voltage fluctuation	100 / 110 V DC: -20 to +30%, 24 V DC: ±10%, 100 / 110 V AC: ±15%								
Withstand voltage	(L-A)	2,000 V AC for one minute							
Lightning impulse	(L-A)	±4,500 V, 3 times for each pole (1.2 / 50 µs)							
Output contact rating	125 V DC, 1 A (3 A max. in total via common bus)								
Insulation resistance	10 MΩ or more (500 V DC Megger)								
Operating time	See each timing chart.								
Shock resistance	300 m/s², 3 times in each direction								
Vibration resistance	16.7 Hz, 0.4 mm double amplitude, Vibration time: 600 s								
Operating temperature	-10 to 55°C								
Storing temperature	-20 to 60°C								
Altitude	2,000 m max.								



Annunciator relay

# CAX-TYPE

## HOW TO ORDER

See the product coding.

## PRODUCT CODING

**CAX-021-DC110**

Basic type

Circuit code

Rated operating voltage

## OPERATING INSTRUCTIONS

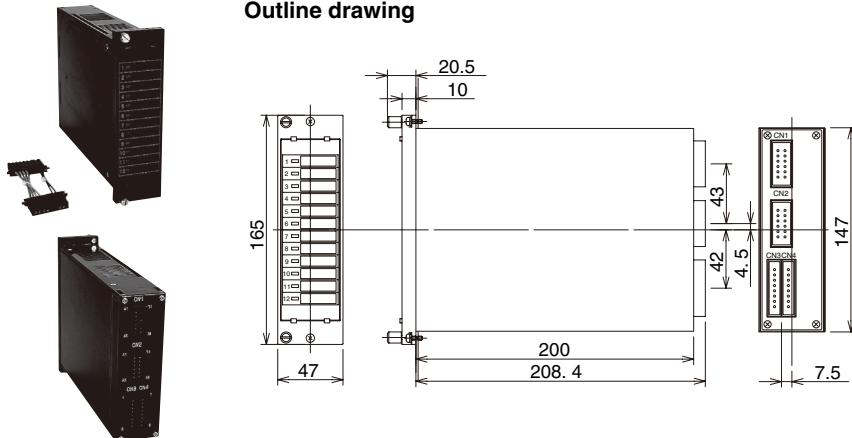
Type name	Item No. of elements	Operation indicator	Rated operating voltage	Built-in relay	Main functions (For details, see the circuit diagram.)
<b>CAX-021</b>	12	■ (R)	100 / 110 V DC	MY4Z G6S	X and Y relays are interlocked. X relay is synchronized with fault input. Output contact (1a) is provided. Y relay (24 V DC) is self-latched with X contact, and turns on the lamp. (Lamp test function is provided.)
<b>CAX-031</b>	5	■ (Y)	100 / 110 V DC 24 V DC	MY4Z G2R	X and Y relays are interlocked. X relay can cope with repeated fault inputs. Y relay (24 V DC) is self-latched with X contact, and interlocked with Z relay. Alarm selection (4-CH) is enabled. Lamp is controlled in D/D control mode. (Lamp test function is provided.)
<b>CAX-032</b>	2 (Common) 3	■ (Y)	100 / 110 V DC 24 V DC	MY4Z G2R	Built-in common relays (3-CH) are assigned to two elements of CAX-031 and alarm output contact. Built-in R and C circuits are provided. Intended for combination use with CAX-031.
<b>CAX-041</b>	8	■ (R)	100 / 110 V DC	MY4Z	Enables self-latching with X-relay operation. (Selectable with DIP switch) Alarm selection (2H) is synchronized with fault input. (Selectable with DIP switch) (Lamp test function is provided.)
<b>CAX-051</b>	11	■ (R)	100 / 110 V DC	HH54 BW	X and Y relays are interlocked. X relay is synchronized with fault input. Output contact (1a) is provided. Y relay (24 V DC) is self-latched with X contact, and turns on the lamp. (Lamp test function is provided.) Output contact (1a) is connected to common circuit.
<b>CAX-061</b>	5	None	100 / 110 V DC	HH54 BW	X, Y and Z relays are interlocked. One-shot pulse (alarm output) is retained for at least 150 ms. External lamp output contact and lamp test circuit are provided.
<b>CAX-071</b>	6	■ R, G, Y	100 / 110 V DC	HH54 BW	X and Y relays are interlocked. X relay is synchronized with fault input. Y relay is self-latched with X contact. Alarm selection (2H) is one-shot pulse. (Selectable with DIP switch) Lamp colors (R, G, Y) are also selectable with DIP switch.
<b>CAX-072</b>	(Common) 2	■ (R)	100 / 110 V DC	HH54 BW	Common relay (2-CH) for alarm circuit, intended for combination use with CAX-071. Built-in R and C circuits are provided. One-shot pulse from CAX-071 can be detected.
<b>CAX-073</b>	(AC) 1	■ R, G, Y	100 / 110 V AC	HH54 BW	Operates with an AC power supply. X, X1, Y and Z relays are interlocked, which are assigned to DC power supply fault output contacts. Each relay provides output contact (1a).
<b>CAX-081</b>	(Common) 3x2	None	100 / 110 V DC	MY4	Built-in common relays (3-CH x 2) are assigned to alarm output contacts. Each output contact (1a) is connected to common circuit. 3-CH relays for intensive contact are incorporated.
<b>CAX-082</b>	5	None	100 / 110 V DC	MY4	X and Y relays are interlocked. Each output contact (1a) is connected to common circuit.

\* The built-in relays described in the above table are OMRON or Fuji Electric products.

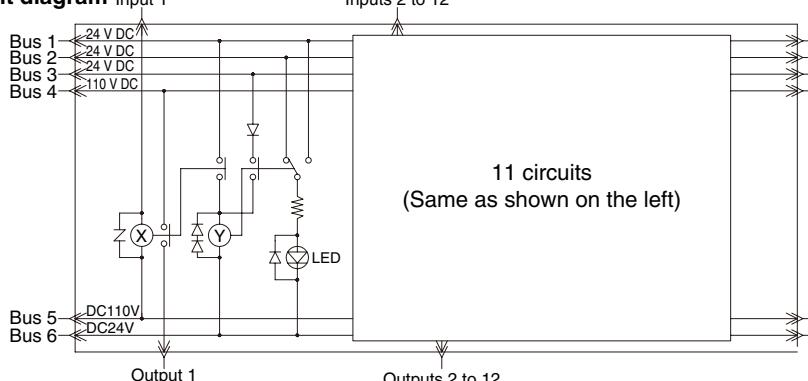
## STANDARD PRODUCTS

**CAX-021**

Outline drawing



Circuit diagram Input 1



Operation chart

		The arrow marks indicate external operations. ↑ : ON, ↓ : OFF				
		Momentary fault	Input	Input	Continuous fault	Input
Input						
LED			Lit		Lit	Lit
Output (a-contact)			Output	Output		Output
Bus 3 (RESET)			Input		Input	Input
Bus 2 (LAMP TEST)						Input



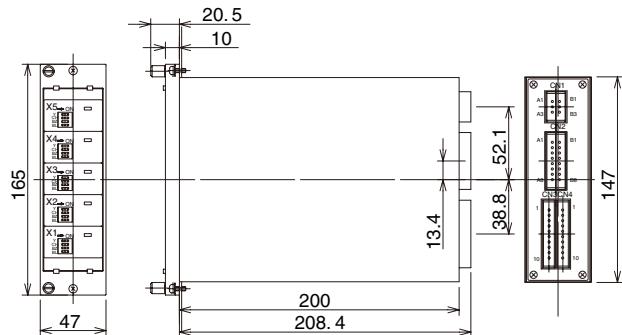
Annunciator relay

# CAX-TYPE

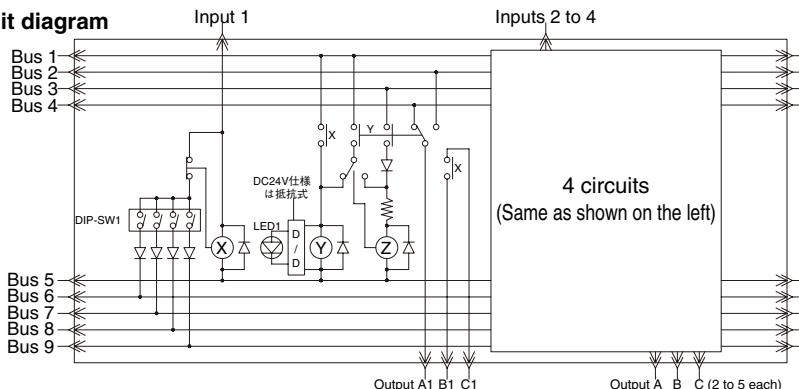
## STANDARD PRODUCTS

### CAX-031

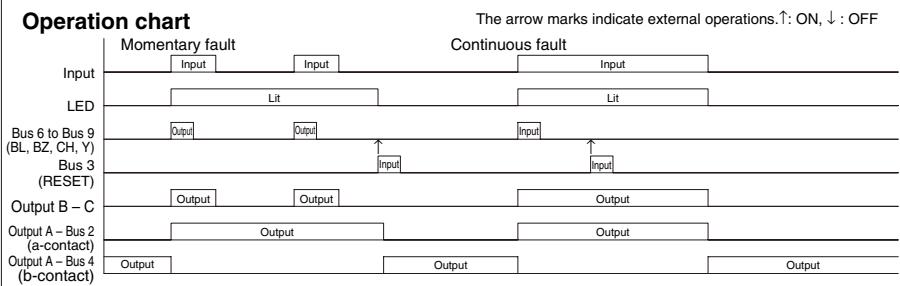
#### Outline drawing



#### Circuit diagram



#### Operation chart

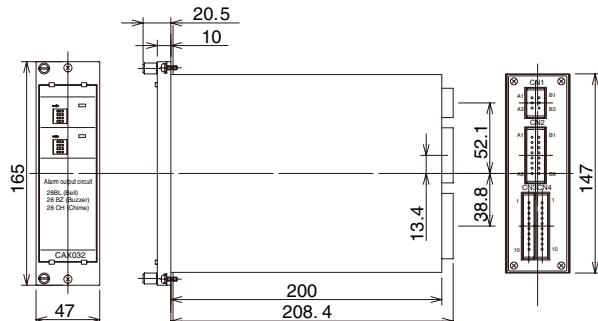


## STANDARD PRODUCTS

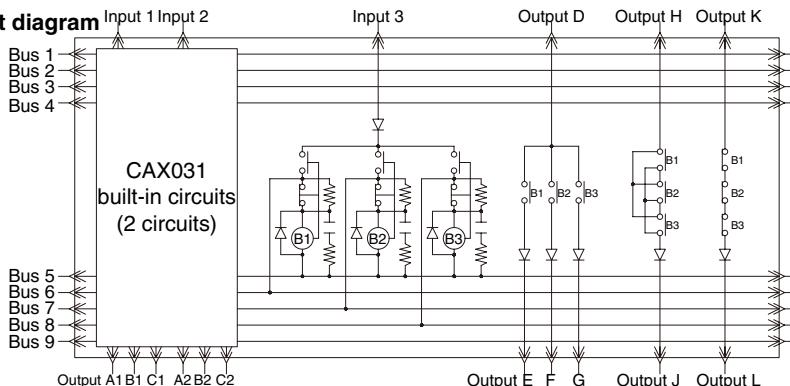
### CAX-032



Outline drawing

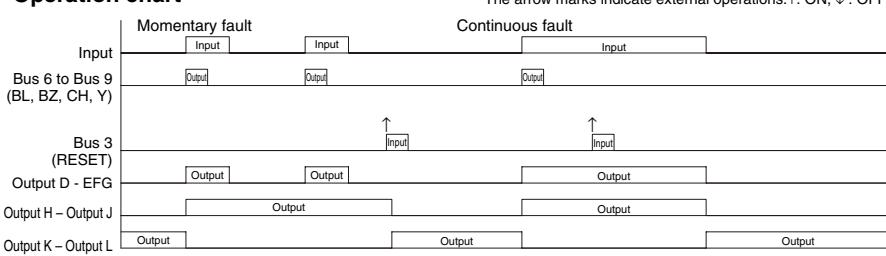


Circuit diagram



Operation chart

The arrow marks indicate external operations. ↑: ON, ↓ : OFF





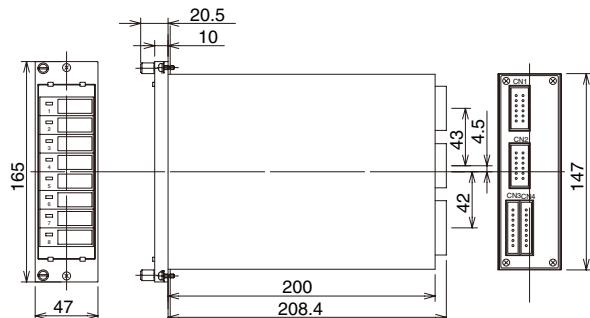
Annunciator relay

# CAX-TYPE

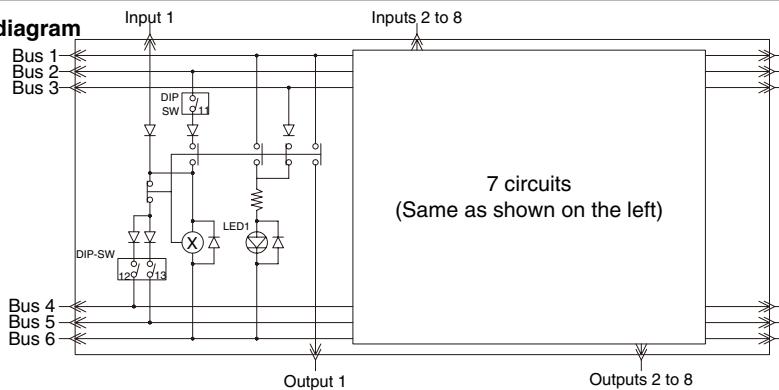
## STANDARD PRODUCTS

### CAX-041

Outline drawing

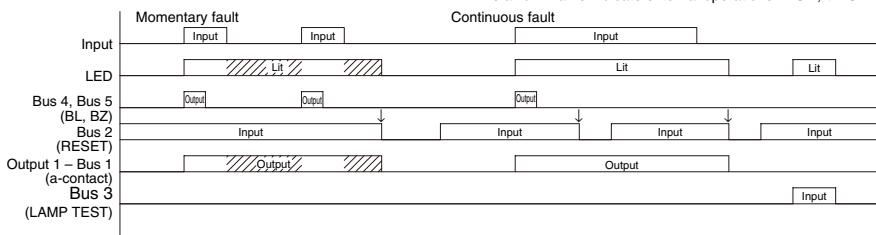


#### Circuit diagram



#### Operation chart

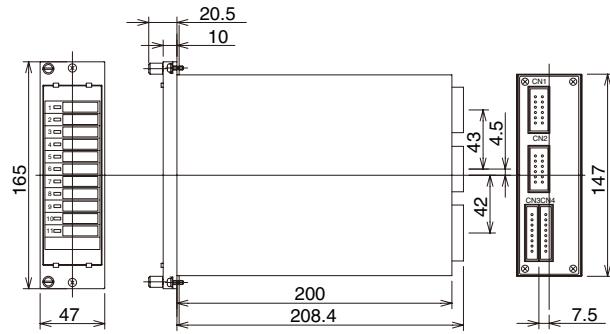
Operation indicated with diagonal lines: The LED and output can be turned on only while SW11 is ON.  
The arrow marks indicate external operations. ↑: ON, ↓: OFF



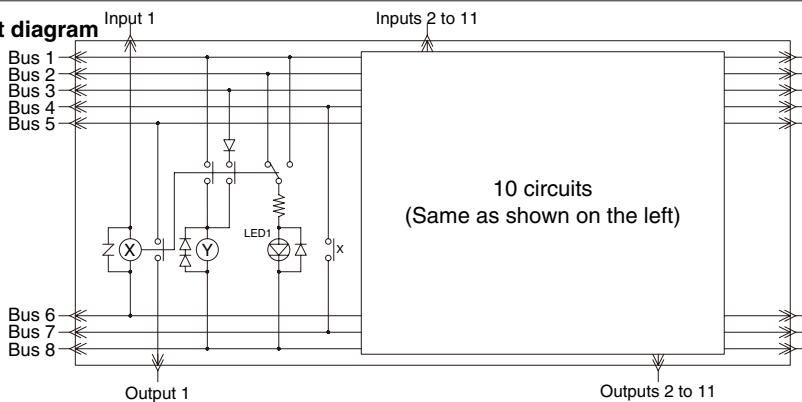
## STANDARD PRODUCTS

### CAX-051

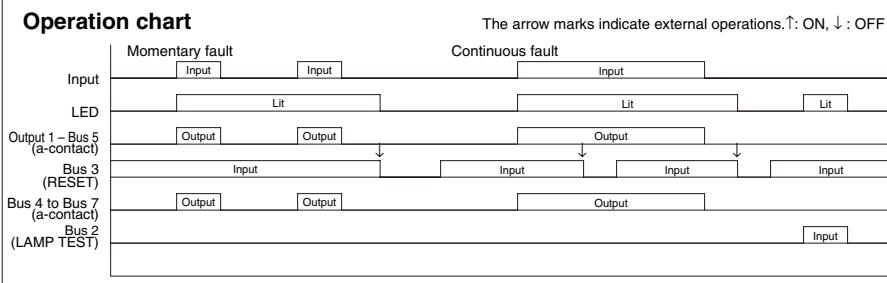
Outline drawing



Circuit diagram



Operation chart





### **Annunciator relay**

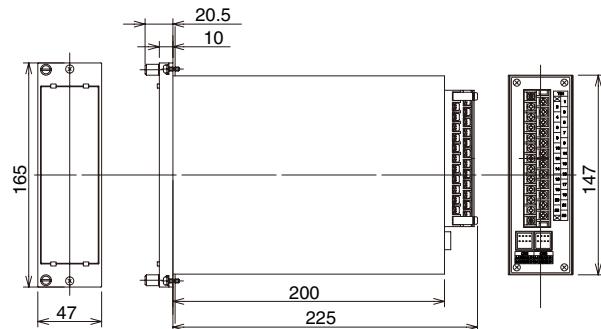
# CAX-TYPE

## **STANDARD PRODUCTS**

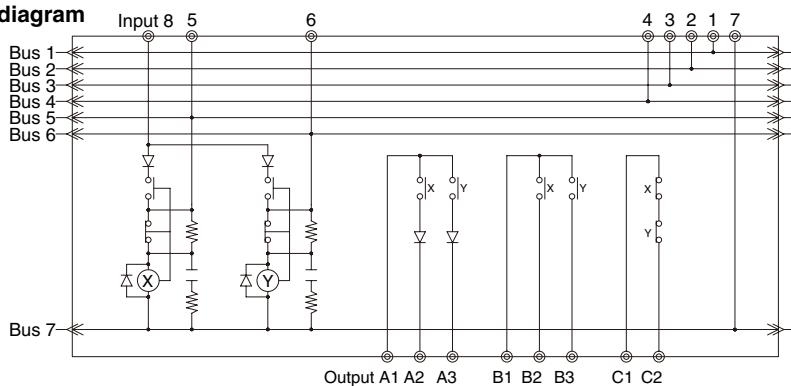
CAX-072



## **Outline drawing**

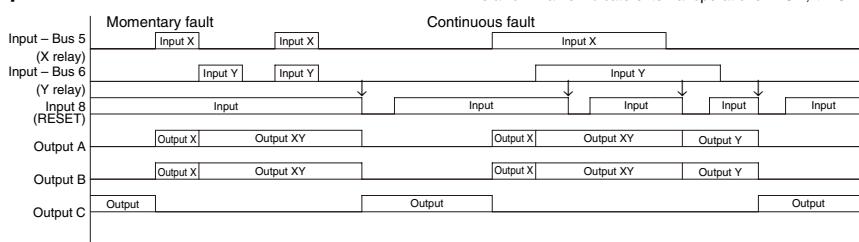


## Circuit diagram



## Operation chart

The arrow marks indicate external operations.  $\uparrow$ : ON,  $\downarrow$ : OFF

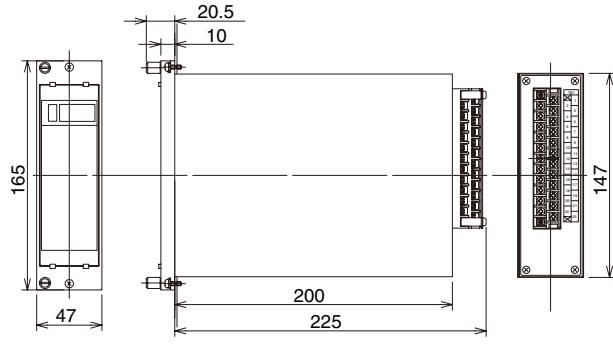


## STANDARD PRODUCTS

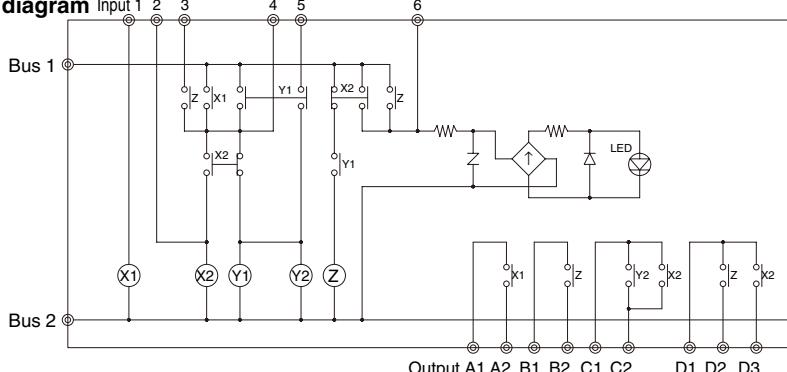
### CAX-073



**Outline drawing**



**Circuit diagram**



**Operation chart**

Reset by inputs 3 and 4		Input operation when input 3 remains ON.			
Input 1	Reset	Continuous	Reset	Continuous	
LED	Lit	Lit		Lit	
Inputs 3 and 4	Input	Input	Input	Input	Input
Input 5	Input	Input	Input	Input	Input
Outputs X1 and X2	X1	X2	X1 · X2	X1	X2
Outputs Y1 and Y2	Y1 · Y2	Y1 · Y2		Y1 · Y2	Y1 · Y2
Output Z	Z	Z			



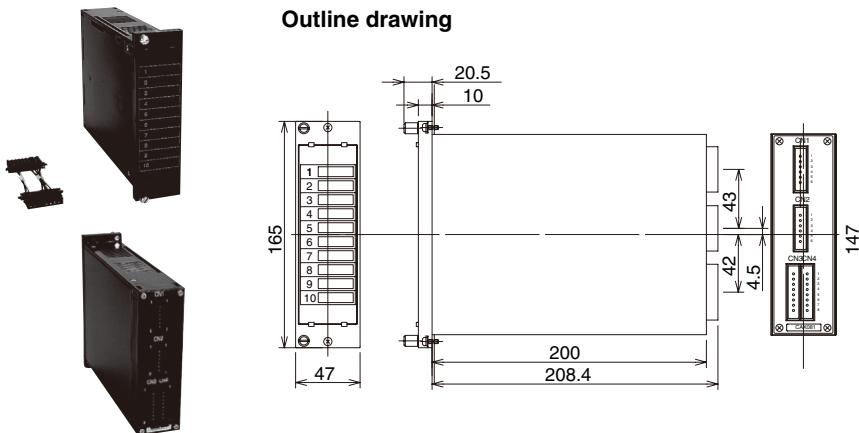
Annunciator relay

# CAX-TYPE

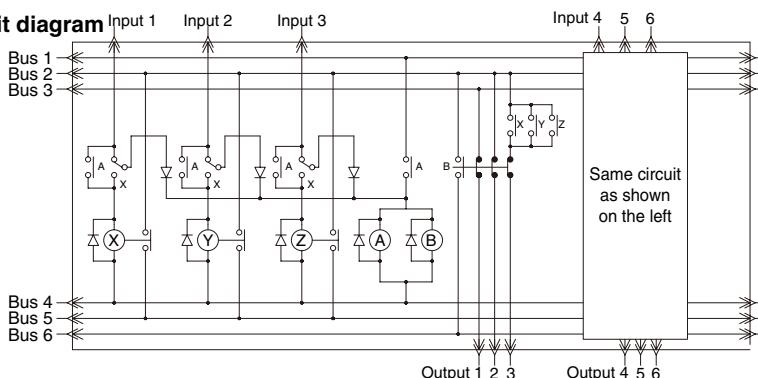
## STANDARD PRODUCTS

### CAX-081

Outline drawing

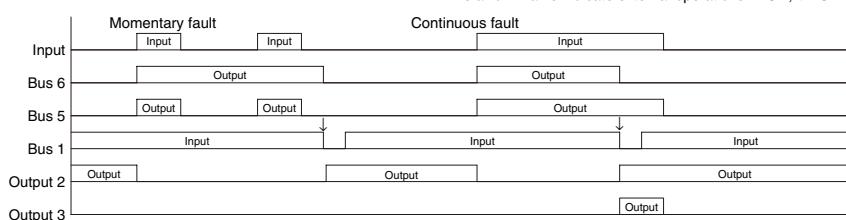


Circuit diagram



Operation chart

The arrow marks indicate external operations. ↑: ON, ↓: OFF

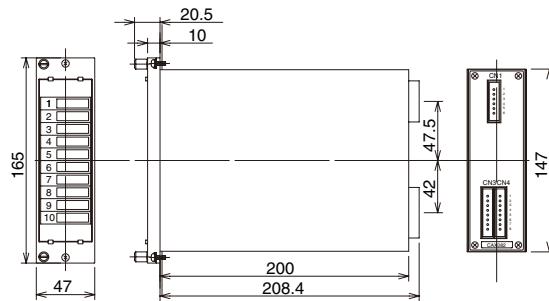


## STANDARD PRODUCTS

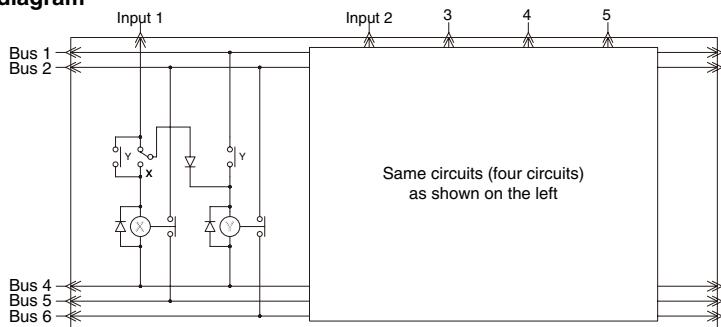
### CAX-082



Outline drawing

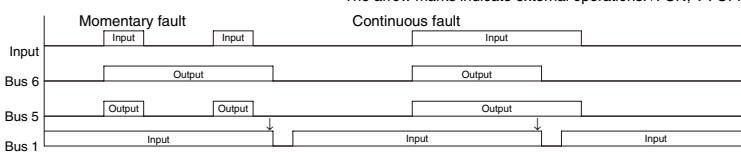


### Circuit diagram



### Operation chart

The arrow marks indicate external operations. ↑: ON, ↓: OFF  
Continuous fault





Annunciator relay

# CAX-TYPE

## TERMINAL NUMBERS (back of relay unit)

CAX021	CAX031																																																																																													
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3">CN1</th> </tr> <tr> <th>NO</th><th>Connection</th><th>NO</th></tr> </thead> <tbody> <tr><td>A1</td><td>Input 1</td><td>Output 1 B1</td></tr> <tr><td>A2</td><td>Input 2</td><td>Output 2 B2</td></tr> <tr><td>A3</td><td>Input 3</td><td>Output 3 B3</td></tr> <tr><td>A4</td><td>Input 4</td><td>Output 4 B4</td></tr> <tr><td>A5</td><td>Input 5</td><td>Output 5 B5</td></tr> <tr><td>A6</td><td>Input 6</td><td>Output 6 B6</td></tr> </tbody> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3">CN2</th> </tr> <tr> <th>NO</th><th>Connection</th><th>NO</th> </tr> </thead> <tbody> <tr><td>A1</td><td>Input 7</td><td>Output 7 B1</td></tr> <tr><td>A2</td><td>Input 8</td><td>Output 8 B2</td></tr> <tr><td>A3</td><td>Input 9</td><td>Output 9 B3</td></tr> <tr><td>A4</td><td>Input 10</td><td>Output 10 B4</td></tr> <tr><td>A5</td><td>Input 11</td><td>Output 11 B5</td></tr> <tr><td>A6</td><td>Input 12</td><td>Output 12 B6</td></tr> </tbody> </table>	CN1			NO	Connection	NO	A1	Input 1	Output 1 B1	A2	Input 2	Output 2 B2	A3	Input 3	Output 3 B3	A4	Input 4	Output 4 B4	A5	Input 5	Output 5 B5	A6	Input 6	Output 6 B6	CN2			NO	Connection	NO	A1	Input 7	Output 7 B1	A2	Input 8	Output 8 B2	A3	Input 9	Output 9 B3	A4	Input 10	Output 10 B4	A5	Input 11	Output 11 B5	A6	Input 12	Output 12 B6	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3">CN1</th> </tr> <tr> <th>NO</th><th>Connection</th><th>NO</th> </tr> </thead> <tbody> <tr><td>A1</td><td>Output A1</td><td>Output A3 B1</td></tr> <tr><td>A2</td><td>Output A2</td><td>Output A4 B2</td></tr> <tr><td>A3</td><td>—</td><td>Output A5 B3</td></tr> </tbody> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3">CN2</th> </tr> <tr> <th>NO</th><th>Connection</th><th>NO</th> </tr> </thead> <tbody> <tr><td>A1</td><td>Output B1</td><td>Output B2 B1</td></tr> <tr><td>A2</td><td>Output B2</td><td>Output B3 B2</td></tr> <tr><td>A3</td><td>—</td><td>Output B4 B3</td></tr> <tr><td>A4</td><td>Input 1</td><td>Output C3 B4</td></tr> <tr><td>A5</td><td>Input 2</td><td>Output D4 B5</td></tr> <tr><td>A6</td><td>Input 3</td><td>Output C4 B6</td></tr> <tr><td>A7</td><td>Input 4</td><td>Output B5 B7</td></tr> <tr><td>A8</td><td>Input 5</td><td>Output C5 B8</td></tr> </tbody> </table>	CN1			NO	Connection	NO	A1	Output A1	Output A3 B1	A2	Output A2	Output A4 B2	A3	—	Output A5 B3	CN2			NO	Connection	NO	A1	Output B1	Output B2 B1	A2	Output B2	Output B3 B2	A3	—	Output B4 B3	A4	Input 1	Output C3 B4	A5	Input 2	Output D4 B5	A6	Input 3	Output C4 B6	A7	Input 4	Output B5 B7	A8	Input 5	Output C5 B8
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# ELECTRONIC DEVICES

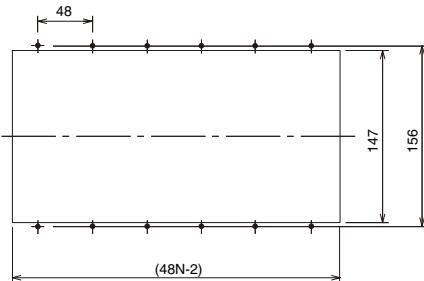
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Annunciator relay

# CAX-TYPE

## MOUNTING HOLE DIMENSIONS



The panel cutout dimensions shown on the left apply to all types.  
The recommended mounting panel thickness (t) is 1.6 to 3.2 mm.

### Mounting procedure

1. Mount the unit case to the mounting panel (with M4 screws).
2. Insert the card relay into the unit case, and fasten it.
3. Connect wires to the back terminals of the relay.

## ACCESSORIES

### Connector housing for wiring

#### ● Dynamic Series (manufactured by AMP)



Type name: **CAX- Type CN** [No. of poles] P

Type	No. of poles	AMP Model No.
CAX-021	12P	178289-6
	6P	178289-3
CAX-031	16P	178289-7
	6P	178289-3
CAX-032	16P	178289-7
	12P	178289-6
CAX-041	12P	178289-6
CAX-051	12P	178289-6
CAX-061	10P	178289-5

### Contact

#### ● MIC Mark II (manufactured by AMP)



\* Refer to the IS-259J (91592-1) or IS260J (755400-1) crimping tool instruction manual supplied by AMP.

AMP model No. 175217-2

### Connector housing for crossover wiring

#### ● Dynamic Series (manufactured by AMP)



Type name: **CAX- Type CL** [No. of poles] P

Type	No. of poles	AMP Model No.
CAX-021	8P	178288-7
CAX-031	10P	172888-8
CAX-032	10P	172888-8
CAX-041	8P	178288-7
CAX-051	8P	178288-7
CAX-061	10P	178288-8

Type name: **CAX- Type CM** [No. of poles] P

Type	No. of poles	AMP Model No.
CAX-071	8P	1318119-4
CAX-072	8P	1318119-4
CAX-073	8P	1318119-4

## Card relay



CAX-021



CAX-041



CAX-071



CAX-081



CAX-031



CAX-051



CAX-072



CAX-082



CAX-032



CAX-061



CAX-073

## Case



Type name: **CAX-** Type **Case**

## Front cover



Type name: **CAX-CV**

\* Transparent front cover only.