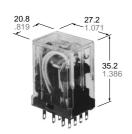
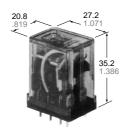




# MINIATURE RELAY FOR WIDER APPLICATIONS

# **HC-RELAYS**





**HCE Amber Relays** 

### **FEATURES**

- Extra long life Min. 108 mechanical operations (DC type)
- 4 contact arrangements
- 4 Form C (for 5 A 250 V AC),
- 3 Form C (for 7 A 250 V AC),
- 2 Form C (for 7 A 250 V AC),
- 1 Form C (for 10 A 250 V AC)
- Applicable to low to high level loads (100µA to 10A)
- Amber sealed types available
- Bifurcated contact types available as HC4D

#### mm inch

#### **SPECIFICATIONS**

#### **Contacts**

Arrangement		1 Form C	2 Form C	3 Form C	4 Form C		
Initial current resistance, max. (By voltage drop 6 V DC 1 A)			30 mΩ				
Contact material		(-inid-tlashed silver allov			Gold-clad silver nickel		
	Nominal switching capacity	10 A 250 V AC	7 A 250 V AC	7 A 250 V AC	5 A 250 V AC		
Rating	Max. switching power		1,750 VA	1,750 VA	1,250 VA		
(resistive)	Max. switching voltage	250 V AC					
	Max. switching current	10 A	7 A	7 A	5 A		

### Coil

Nominal operating power	AC (50Hz): 1.3VA, AC (60Hz): 1.2 VA
	DC:0.9 to 1.1W

#### Remarks

- \* Specifications will vary with foreign standards certification ratings.
- \*1 Detection current: 10 mA
- \*2 Excluding contact bounce time
- \*3 Half-wave pulse of sine wave: 11ms; detection time: 10μs
- \*4 Half-wave pulse of sine wave: 6ms
- \*5 Detection time: 10µs
- \*6 Refer to 5. Conditions for operation, transport and storage mentioned in AMBIENT ENVIRONMENT (Page 61).

#### Characteristics

Max. operatir	ng speed	20 cpm (at max. rating)		
Initial insulati	ion resistance	:	Min. 1,000 MW at 500 V DC	
Initial	Between ope	en contacts	700 Vrms for 1 min.	
breakdown	Between cor	ntact sets	700 Vrms for 1 min.	
voltage*1	Between cor	ntact and coil	2,000 Vrms for 1 min.	
Operate time (at 20°C)	e*2 (at nomina	l voltage)	Approx. 10 ms (DC, AC type)	
	e (without diod oltage) (at 20		Approx. 5 ms (DC type) Approx. 10 ms (AC type)	
Temperature rise, max. (at 70°C) (at nominal voltage)			80°C	
Shock resistance		Functional*3	Min. 196 m/s <sup>2</sup> {20 G}	
		Destructive*4	Min. 980 m/s <sup>2</sup> {100 G}	
Vibration resistance		Functional*5	10 to 55 Hz at double amplitude of 1 mm	
		Destructive	10 to 55 Hz at double amplitude of 2 mm	
Conditions for operation, transport and storage* <sup>6</sup> (Not freezing and condens- ing at low temperature)		Ambient temp.	–50°C to +70°C –58°F to +158°F	
		Humidity	5 to 85% R.H.	
Unit weight			Approx. 30g 1.06 oz	

#### **Expected life (min. operations)**

Electrical (at 20 cpm)

Voltag	e	125 V AC		250	250 V AC		30 V DC	
Load	l	Resistive (cos φ = 1)	Inductive (cos $\varphi = 0.4$ )	Resistive (cos φ = 1)	Inductive (cos $\varphi = 0.4$ )	Resistive	Inductive	Expected life
		10A	5A	10A	3A	_	_	2×10 <sup>5</sup>
HC1 (1 Form C)	Current	7A	3A	7A	2.5A	3A	1A	5×10 <sup>5</sup>
(11011110)		5A	2A	5A	1.5A	_	_	1×10 <sup>6</sup>
		7A	3.5A	7A	2A	_	_	2×10 <sup>5</sup>
HC2 (2 Form C) Current	5A	2.5A	5A	1.5A	3A	0.6A	5×10 <sup>5</sup>	
	3A	1.5A	3A	1A	_	_	1×10 <sup>6</sup>	
		7A	_	7A	_	_	_	1×10 <sup>5</sup>
HC3 (3 Form C) Current	_	3.5A	_	2A	_	_	2×10 <sup>5</sup>	
	5A	_	5A	_	3A	0.4A	5×10 <sup>5</sup>	
HC4 (4 Form C) Current	5A	2A	5A	1A	_	_	2×10 <sup>5</sup>	
	Current	3A	1A	3A	0.8A	3A	0.4A	5×10 <sup>5</sup>
		2A	0.5A	2A	0.4A	_	_	1×10 <sup>6</sup>

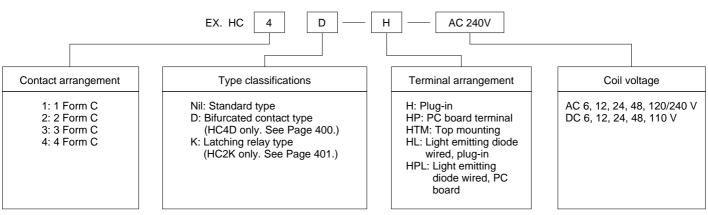
Mechanical life (at 180 cpm) DC type: 10<sup>s</sup>, AC type: 5×10<sup>7</sup>

#### TYPICAL APPLICATIONS

Transportation, power station control equipment, refrigerators, building control equipment, office machines, coin operat-

ed machines, amusement devices, medical equipment, etc.

#### ORDERING INFORMATION



#### Notes:

- 1. When ordering VDE recognized types, add suffix VDE.
- 2. HC3 (3 Form C) series are not approved by VDE.
- 3. AC 48 V type is not available for LED wiring.
- 4. Standard packing Carton: 20 pcs.; Case: 200 pcs.
- 5. UL/CSA approved type is standard.

### COIL DATA (Common for Standard, Amber sealed and Bifurcated contact types)

DC Type at 20°C 68°F

Coil voltage,	e, Pick-up voltage, Drop-out voltage, VDC (min.)		Coil resistance,	Nominal coil	Operating power, W		
V DC	V DC (max.)	V DC (min.)	Voltage, V DC	Ω (±10%)	current, mA (±10%)	Nominal	Minimum
6	4.8	0.6	6.6	40	150	0.9	0.58
12	9.6	1.2	13.2	160	75	0.9	0.58
24	19.2	2.4	26.4	650	37	0.9	0.58
48	38.4	4.8	52.8	2,600	18.5	0.9	0.58
110	88.0	11.0	121.0	10,000	10	1.0	0.64

#### AC Types (50/60 Hz) at 60 Hz, 20°C 68°F

Coil voltage,	Pick-up voltage,	Drop-out voltage,	Drop-out voltage, V AC (min.)  Max. allowable voltage, V AC	Nominal coil	Operating power, VA	
V AC	V AC (max.)			current, mA (±20%)	Nominal	Minimum
6	4.8	1.8	6.6	200		
12	9.6	3.6	13.2	100		
24	19.2	7.2	26.4	50	1.20	0.77
48	38.4	14.4	52.8	25	1.20	0.77
110/120	96	36	132	10.9/11.9		
220/240	176.0	66.0	264.0	6.0/6.5		

#### NOTES:

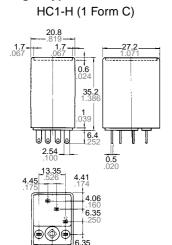
- 1. The range of coil current is  $\pm 15\%$  for AC (60 Hz), and  $\pm 10\%$  for DC, at 20°C.
- 2. The relay is applicable to the range of 80 % to 110% of the nominal coil voltage. However, it is recommended that the relay be used in the range of 85% to 110% to take temporary voltage variations into consideration.
- 3. The coil resistance of DC types is the measured value at a coil temperature of  $20^{\circ}$ C. Please compensate coil resistance by  $\pm 0.4\%$  for each degree centigrade coil temperature change.
- 4. All AC 240 V types are rated for double coil voltages, both AC 220 V and AC 240 V.
- 5. For use with 220 V or 240 V DC, connect a resistor as suggested in the chart below, in series with the 110 V DC relay.

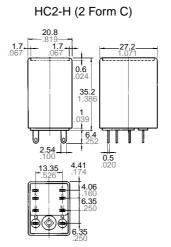
Voltage	1 Form C, 2 Form C, 3 Form C, 4 Form C
220 V DC	11 kΩ (5 W)
240 V DC	13 kΩ (5 W)

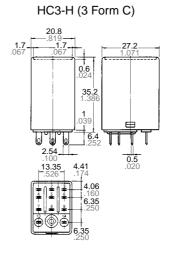
### **DIMENSIONS** (Common for standard, Amber sealed and Bifurcated contact (4C only) types)

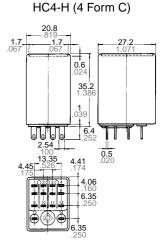
mm inch

#### Plug-in type





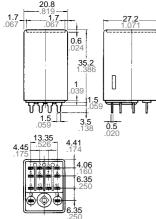




General tolerance:  $\pm 0.2 \pm .008$ 

#### PC board type

HC4-H (4 Form C)



6.35 .250 General tolerance: ±0.2 ±.008

#### PC board pattern (Copper-side view)

1c

4.1 .161



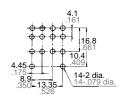
3с



2c



4c



Tolerance: ±0.1 ±.004

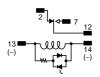
Note: Special PC terminal with 0.9 mm (.035 inch) width available with suffix "-31".

### Schematic (bottom view)

HC1-H, HC1-HP (1 Form C)



LED AC type



LED DC type



HC2-H, HC2-HP (2 Form C)

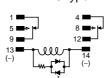
Dimensions of HC1-HP, HC2-HP, HC3-HP are the

same as those of plug-in type

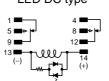
except shapes of terminals.



LED AC type



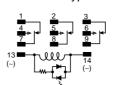
LED DC type



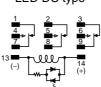
HC3-H, HC3-HP (3 Form C)



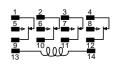
LED AC type



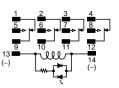
LED DC type



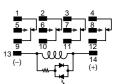
HC4-H, HC4-HP (4 Form C)



LED AC type



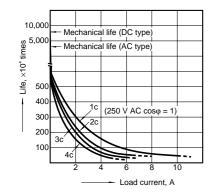
LED DC type



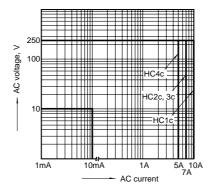
### REFERENCE DATA

#### 1. Life curve

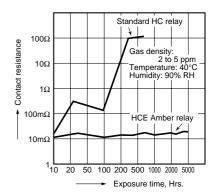
Load: 250 V AC resistive load



#### 2. Switching capacity range



#### 3. H<sub>2</sub>S gas test

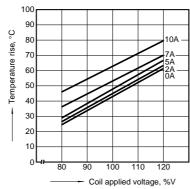


#### 4. Coil temperature rise

Measured portion: Inside the coil Note: When the nominal voltage is applied to AC 120 or 240 V coil types respectively, the figures of coil temperature rise increase by approx. 10 degrees to the ones shown on each graph.

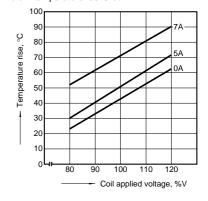
HC1 AC coil

Ambient temperature: 25°C 77°F



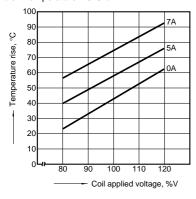
HC2 AC coil

Ambient temperature: 30°C 86°F



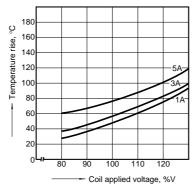
HC3 AC coil

Ambient temperature: 18°C 64°F



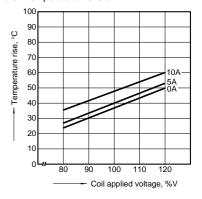
HC4 AC coil

Ambient temperature: 15 to 21  $^{\circ}\text{C}$  59 to 70  $^{\circ}\text{F}$ 



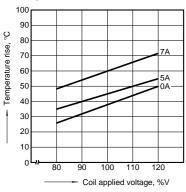
HC1 DC coil

Ambient temperature: 29°C 84°F



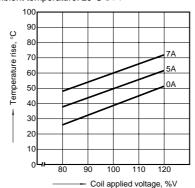
#### HC2 DC coil

Ambient temperature: 29°C 84°F



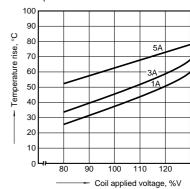
HC3 DC coil

Ambient temperature: 29°C 84°F



HC4 DC coil

Ambient temperature: 17 to 18°C 62 to 64°F





# **Amber Relays HCE**

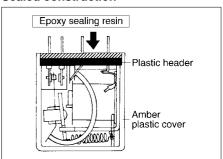
HC sealed relays are version of the HC relays and are recommended for use in switching medium loads under adverse ambient conditions. They show highly stable contact resistance even after long use, due to their sealed construction and reliable gold plated contacts. Amber relays also make the combined process of automatic wave soldering and cleaning process possible with their resultant savings

in cost and labor. Contact arrangements of 1 Form C, 2C, and 4C are available for plug-in, PC board and top-mount.

#### Construction

The diagram at right shows a cross-section of the plastic sealed relay. All the plastic parts are annealed and outgassed to ensure fully the stability of both chemical and physical characteristics.

#### **Sealed construction**



### **SPECIFICATIONS**

#### **Contacts**

Contact arrangement			1 Form C	2 Form C	4 Form C	
	Nominal swit	ching capacity	5 A 250 V AC	3 A 250 V AC	2 A 250 V AC	
Dating (registive)	Max. switchir	ng power	1,250 VA	700 VA	500 VA	
Rating (resistive)	Max. switchir	ng voltage	250 V AC			
	Max. switchir	ng current	5 A	3 A	2 A	
Conditions for operation, transport and storage (Not freezing and condensing at low temperature)  Ambient Humidity		Ambient temp.	<b>−40°C to +60°C</b> −40°F to +140°F			
		Humidity	5 to 85% R.H.			
Ambient air pressure			760	mmHg +20% (1.013 mb +	20%)	

#### **Expected life (min. operations)**

Electrical (at 20 cpm)

Volta	ge	125 V AC	250 V AC	30 V	DC	Expected
Load	d	Resistive (cos φ = 1)	Resistive $(\cos \varphi = 1)$	Resistive	Inductive	life
HC1E (1 Form C)	Current	5 A	5 A	3 A	1 A	
HC2E (2 Form C)	Current	3 A	3 A	2 A	1.7 A	2×10 <sup>5</sup>
HC4E (4 Form C)	Current	2 A	2 A	2 A	0.6 A	
	HC1E (1 Form C) HC2E (2 Form C)	Load  HC1E (1 Form C)  HC2E (2 Form C)  HC4E	Load     Resistive (cos φ = 1)       HC1E (1 Form C)     Current     5 A       HC2E (2 Form C)     Current     3 A	Load     Resistive (cos φ = 1)     Resistive (cos φ = 1)       HC1E (1 Form C)     Current $5 A$ $5 A$ HC2E (2 Form C)     Current $3 A$ $3 A$ HC4E $3 A$ $3 A$ $3 A$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$

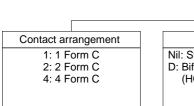
Mechanical life (at 180 cpm)

DC type:  $10^8$  , AC type:  $5\times10^7$ 

#### Characteristics

Operate time	Approx. 10 ms (DC, AC type)
Release time	Approx. 5 ms (DC type) Approx. 10 ms (AC type)

#### ORDERING INFORMATION



Type classifications

Nil: Standard type
D: Bifurcated contact type
(HC4D only. See Page 400.)

EX. HC

Terminal arrangement

H: Plug-in
HP: PC board terminal
HTM: Top mounting
L: Light emitting diode wired, plug-in
PL: Light emitting diode wired, PC board

AC 240V

Coil voltage

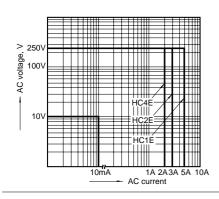
AC 6, 12, 24, 48, 120,
240 V

DC 6, 12, 24, 48, 110 V

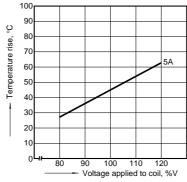
UL/CSA approved type is standard.

### **REFERENCE DATA (HC Amber Relays)**

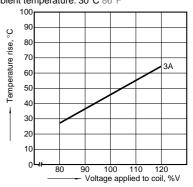
1. Switching capacity range



2.-(1) Coil temperature rise (1c AC type) Measured portion: Inside the coil Ambient temperature 30°C 86°F

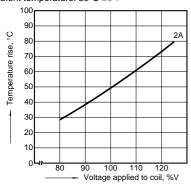


2.-(2) Coil temperature rise (2c AC type) Measured portion: Inside the coil Ambient temperature: 30°C 86°F

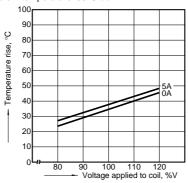


### HC

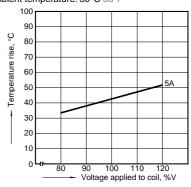
2.-(3) Coil temperature rise (4c AC type) Measured portion: Inside the coil Ambient temperature: 30°C 86°F



2.-(4) Coil temperature rise (1c DC type) Measured portion: Inside the coil Ambient temperature: 30°C 86°F



2.-(5) Coil temperature rise (2c DC type) Measured portion: Inside the coil Ambient temperature: 30°C 86°F

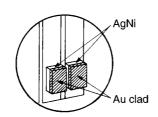


# Bifurcated contact types HC4D

Extremely high contact reliability has been made possible by adoption of gold-clad bifurcated contacts for both movable and stationary contacts.

HC4D type can be used from the dry circuit 100  $\mu$ A at 10 V DC to the power circuit 3 A at 250 V AC resistive load.

Therefore, with HC4D type such a usage is possible that one contact switches 100  $\mu$ A and another contact switches 3 A load. Also Amber sealed types are available as HC4ED relays.



### **SPECIFICATIONS**

#### **Contacts**

Contact arrangement		4 Form C only
Contact material		Gold-clad silver nickel
Rating (resistive)	Nominal switching capacity	3 A 250 V AC
	Max. switching power	750 VA
	Max. switching current	3A

#### Characteristics

Operate time (Approx.)	DC, AC: 10 ms
Release time (Approx.)	DC: 5 ms AC: 10 ms

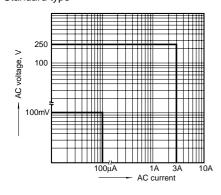
#### **Expected life (min. operations)**

Electrical (at 20 cpm)

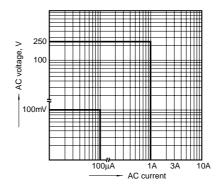
	Voltage	/oltage 125 V AC			V AC	30 V DC		
	Load	Resistive $(\cos \varphi = 1)$	Inductive (cos $\varphi = 0.4$ )	Resistive (cos φ = 1)	Inductive (cos $\phi = 0.4$ )	Resistive	Expected life	
	HC4DE	3 A	1 A	3 A	0.8 A	3 A	2×10 <sup>5</sup>	
	HC4ED	1 A	_	1 A	_	_	2×10°	

### REFERENCE DATA

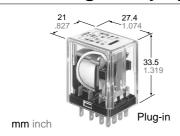
1. Switching capacity range Standard type



Amber type



# \_atching relay types: HC2K



HC magnetic latching relays are particularly suitable for various vending machines, remote control devices, parking meters, conveyor, NC machinery, etc.

### TYPES AND COIL DATA

DC coils at 20°C 68°F

UL, CSA recognized

Part No.		Nominal coil current (mA)		Nominal operating power (VA)		Coil voltage	
Plug-in	PC board terminal	set	reset	set	reset	Pick-up	Max. allowable
HC2K-DC6V	HC2K-P-DC6V	207	107	1.24	0.64	80% of Nominal voltage	110% of Nominal voltage
HC2K-DC12V	HC2K-P-DC12V	100	52.2	1.20	0.63		
HC2K-DC24V	HC2K-P-DC24V	51.1	25.5	1.23	0.61		
HC2K-DC48V	HC2K-P-DC48V	25.3	13.7	1.21	0.66		
HC2K-DC100V	HC2K-P-DC100V	15.6	5.8	1.56	0.58		



Plug-in

#### AC coils

Part No.		Nominal coil current (mA)		Nominal operating power (VA)		Coil voltage	
Plug-in	PC board terminal	set	reset	set	reset	Pick-up	Max. allowable
HC2K-AC6V	HC2K-P-AC6V	206	103	1.23	0.62	80% of Nominal voltage	110% of Nominal voltage
HC2K-AC12V	HC2K-P-AC12V	100	52	1.20	0.62		
HC2K-AC24V	HC2K-P-AC24V	51	21.4	1.22	0.51		
HC2K-AC48V	HC2K-P-AC48V	25.2	18.5	1.2	0.88		
HC2K-AC115V	HC2K-P-AC115V	10.4	5.4	1.20	0.621		



PC board terminal

HC2K AC types are not recognized by UL, CSA.

Notes: 1. The coil current range is  $\pm 10\%$  of the nominal coil current.

- 2. The relay is suitable to the range of 80% 110% of the nominal coil voltage. However, it is recommended that the relay be used in the range of 85% — 110% of the nominal coil voltage, with the temporary voltage variation taken into consideration.
- 3. UL/CSA approved type is standard.

### **SPECIFICATIONS**

Coi	าta	cts
-----	-----	-----

Arrangeme	nt	2 Form C only		
Initial contact resistance max. (By voltage drop 6 V DC 1 A)			50 mΩ	
	Nominal switching capacity		3 A 250 V AC	
Rating (resistive)	Max. switching	power	750 VA	
(resistive)	Max. switching	current	3A	
Coil				
Nominal operating power		Set coil	1.2 VA to 1.33 VA	
		Reset coil	0.51 VA to 0.88 VA	

#### Characteristics

Initial breakdown voltage	Betwee	en contact il	1,500 Vrms for 1 min.			
Set time (at nominal	voltage)	(at 20°C)	AC, DC: Approx. 20 ms			
Reset time (at nominal voltage)			AC: Approx. 30 ms DC: Approx. 50 ms			
Temperature rise		Set coil	Max. 80°C			
(at nominal voltage)		Reset coil	Max. 50°C			
Shock/vibration resis	tance		Min. 98 m/s <sup>2</sup> {10 G}			
Expected life (min. operations)	Mechanical (at 180 cpm)		107			
	Electrical (resistive) (at 20 cpm)		2×10 <sup>5</sup>			
Ambient temperature			-40°C to +50°C -40°F to +122°F (Not freezing and condensing at low temperature)			

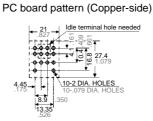
### **DIMENSIONS AND CIRCUIT DIAGRAM**

**Dimensions** 

**27.4** 

Circuit diagram

General tolerance: ±0.5 ±.020



Tolerance: ±0.1 ±.004

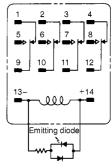
- 1. Configuration and dimensions of HC2K types are the same as those of standard HC4 types. Standard sockets and screw terminal sockets of HC4 can be used: HC4-SS-K, HC4-PS-K, HC4-WS-K, and HC4-HSF-K
- 2. Please note that circuit diagram of HC2K is different from HC4.
- 3. Avoid operation by capacitor since latching force varies according to input pulse voltage.

# LED wired types: HC-L

The built-in indication LED (Light emitting diode) Series are suitable for instant indication of operate function in applications where numerous relays are to be used. The HC-L relays are supplied with LED wired in parallel with the coil for visual indication that the relay is functioning. A Red LED is used for AC type and green one for DC.





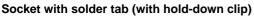


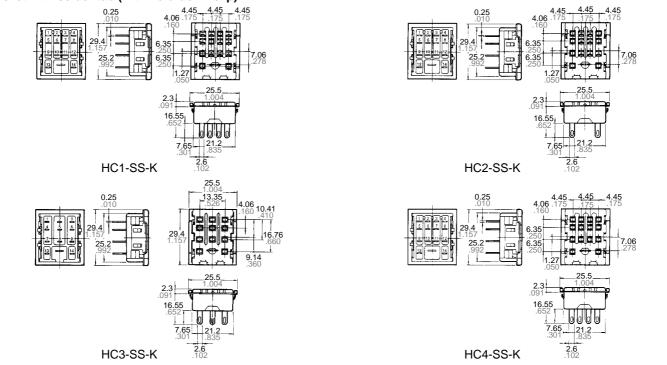
Protection diode (BOTTOM VIEW)

### **ACCESSORIES**

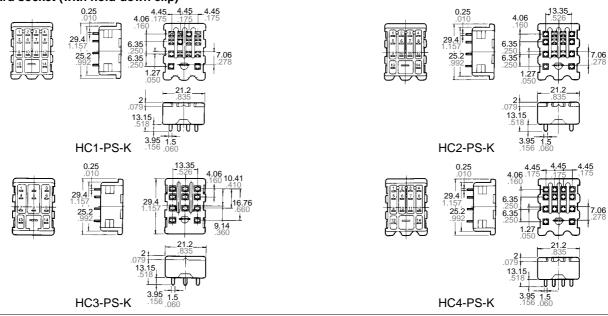
Relay Socket	HC1 (1 Form C)	HC2 (2 Form C)	HC3 (3 Form C)	HC4 (4 Form C)
Socket with solder tab (with hold-down clip)	DISSEL LA	TO PASSE OF THE PA		RESERVE DE LE
	HC1-SS-K	HC2-SS-K	HC3-SS-K	HC4-SS-K
PC board socket (with hold-down clip)	HCI Ps. K Blazeoldo	HO2-PS-K XA:SOVAC	HCa. PS. K 7/1250/4C	HC+PB-K skasovac
	HC1-PS-K	HC2-PS-K	HC3-PS-K	HC4-PS-K
Socket for wrap wiring (with hold-down clip)				
	HC1-WS-K	HC2-WS-K	HC3-WS-K	HC4-WS-K
Screw terminal socket for front wiring (with hold-down clip)	_	NC2 CF IV		HOATISE IS
		HC2-SF-K Exclusively for HC2-H	HC3-HSF-K For HC2-H, HC3-H	HC4-HSF-K For HC1-H, HC2-H, HC4-H
Screw terminal socket for DIN rail assembly (with hold-down clip)	_			
		HC2-SFD-K Exclusively for HC2-H	HC3-SFD-K For HC2-H, HC3-H	HC4-SFD-K For HC1-H, HC2-H, HC4-H

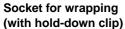
**DIMENSIONS** mm inch



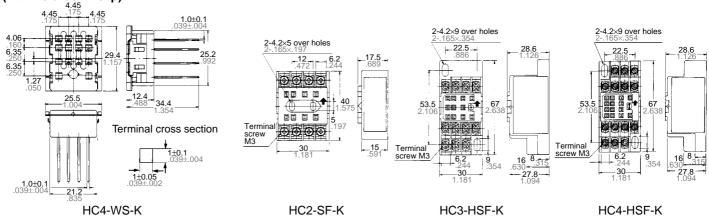


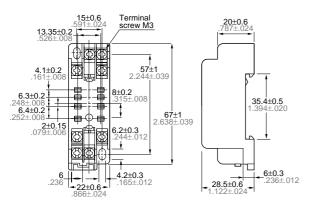
#### PC board socket (with hold-down clip)

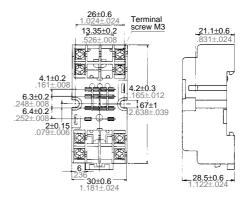




### Screw terminal socket for front wiring (with hold-down clip)





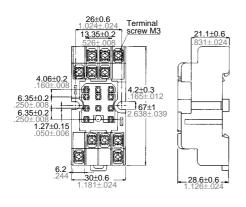


Terminal screw M3

21.1±0.6

28.5±0.6 .122±.024

HC2-SFD-S HC2-SFD-K

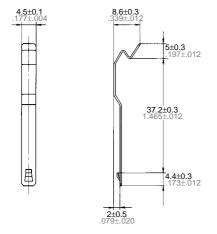


HC3-SFD-K HC4-SFD-K



(1) Leaf spring: Applied to HC1-SS-K, HC2-SS-K, HC3-SS-K, HC4-SS-K, HC1-PS-K, HC2-PS-K, HC3-PS-K, HC4-PS-K, HC2-SF-K, HC3-HSF-K, HC4-HSF-K

Part No.: HC/HL-LEAF-SPRING-K



(2) "M shape" leaf spring: Applied to HC1-WS-K,HC2-WS-K, HC3-WS-K, HC4-WS-K

Part No.: HC/HL-LEAF-SPRING-MK

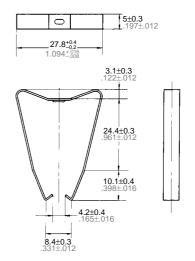
13.35±0.

4.1±0.2 161±.00

2±0.15 .079±.006

6.3±0.2

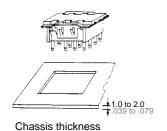
6.4±0.2 .252±.008 4.<u>45</u>±0.2



mm inch

### MOUNTING DIMENSIONS AND METHOD

#### Solder and wrapping socket mount





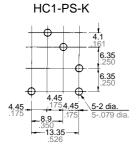
Quick mounting

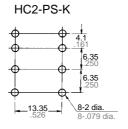
Chassis cutout MINIMUM SEPARATION \

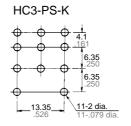
Tolerance:  $\pm 0.1 \pm .004$ 

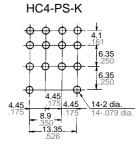
### PC board pattern for PC board socket (Copper-side view)

For socket-mount





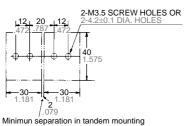




General tolerance: ±0.5 ±.020

#### Screw socket mounts (Top view)

HC2-SF-K



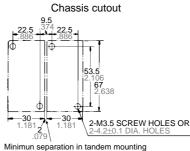
Chassis cutout

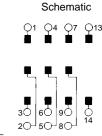
Schematic





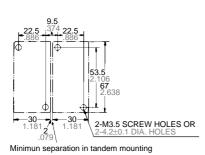
HC3-HSF-K





HC4-HSF-K

Chassis cutout

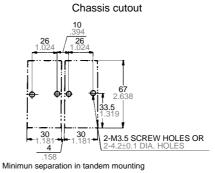


Schematic

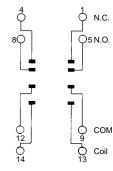




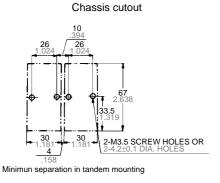
HC2-SFD-K



Schematic



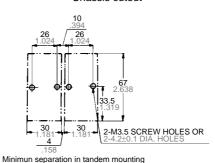
HC3-SFD-K

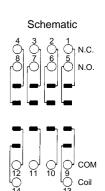


Schematic N.C. N.O. От сом

Coil

HC4-SFD-K Chassis cutout





#### Direct mount for HC-TM relay siries



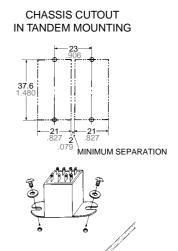
110 11

#### Notes:

- HC 1-HTM, HC2-HTM, HC3-HTM,
  HC4-HTM types all have dimensions in common except for the number of terminals.
- 2. For the specifications, please refer to Page 395
- 3. In mounting, use M3 screw and M3 washer.

#### 34.2 1.346 1.339 1.346 1.339 1.346 1.3

4 Form C



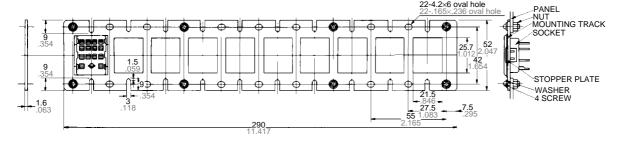
Tolerance:  $\pm 0.1 \pm .004$ 

#### Mounting track for solder socket

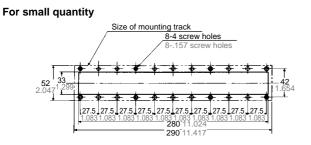


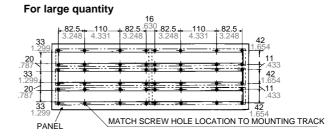
Up to 10 sockets per track. Cut at notch for desired track length.

# Track-mounted solder log sockets HC-MOUNTING TRACK



#### Chassis





Tolerance:  $\pm 0.1 \pm .004$ 

### For Cautions for Use, see Relay Technical Information (Page 48 to 76).