

勝 特 力 材 料 886-3-5753170 胜特力电子(上海) 86-21-54151736 胜特力电子(深圳) 86-755-83298787 Http://www.100y.com.tw

Multifunction Digital Timer

H5CX

Advanced 1/16 DIN Digital Timer With Multiple Functions in One Unit

- 11-field selectable timing modes for a wide variety of applications
- Twin-timer function included in one unit to meet a wide range of cyclic control applications
- Programmable display color to alert any output status change
- All parameters can be set via front membrane keys or DIP switches
- PNP/NPN selectable input
- Wide time range from 0.001 second to 9999 hours
- Key protect function
- NEMA4/IP66 front





Ordering Information

Output type	Part numbers					
	Standard type	Economy type				
	Screw terminals	11-pin socket	8-pin socket			
Contact output	H5CX-A AC100-240	H5CX-A11 AC100-240	H5CX-L8 AC100-240			
	H5CX-AD AC24/DC12-24	H5CX-A11D AC24/DC12-24	H5CX-L8D AC24/DC12-24			
Transistor output	H5CX-AS AC100-240	H5CX-A11S AC100-240	H5CX-L8S AC100-240			
	H5CX-ASD AC24/DC12-24	H5CX-A11SD AC24/DC12-24	H5CX-L8SD AC24/DC12-24			

Note: The power supply and input circuits for the H5CX-A11/A11S have basic insulation. Other models are not insulated.

■ Model Number Legend:

H5CX-DDDD

1 2 3 4

1. Type

A: Standard type
L: Economy type

2. External connection

None: Screw terminals 8: 8-pin socket 11: 11-pin socket

3. Output type

None: Contact output S: Transistor output

4. Supply voltage

None: AC100 to 240, 50/60 Hz D: AC24/DC12 to 24

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H5CX

■ Accessories (Order Separately)

Name		Part numbers		
Flush mounting adapter (See note 1.)	Y92F-30		
Waterproof packing (See note 1.)		Y92S-29		
Track mounting/	8-pin	P2CF-08		
front connecting socket	8-pin, finger-safe type	P2CF-08-E		
	11-pin	P2CF-11		
	11-pin, finger-safe type	P2CF-11-E		
Back connecting socket	8-pin	P3G-08		
for panel mounting	8-pin, finger-safe type	P3G-08 with Y92A-48G (See note 2.)		
	11-pin	P3GA-11		
	11-pin, finger-safe type	P3GA-11 with Y92A-48G (See note 2.)		
Hard cover		Y92A-48		
Soft cover	TAM MM.	Y92A-48F1		
Mounting track	50 cm (I) × 7.3 mm (t)	PFP-50N		
	1 m (I) × 7.3 mm (t)	PFP-100N		
	1 m (l) × 16 mm (t)	PFP-100N2		
End plate	OM	PFP-M COST WAY AND THE PROPERTY OF THE PROPERT		
Spacer		PFP-S		

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Specifications

■ Ratings

	H5CX-A□	H5CX-A11□	H5CX-L8□		
	Digital timer	W 1	00 r. OW. I.		
	100 to 240 VAC (50/60 Hz), 24 VAC (50/60 Hz)/12 to 24 VDC (permissible ripple: 20% (p-p) max.)				
· ALIMA	85% to 110% rated supply voltage (12 to	24 VDC: 90% to 110%)	· ro COM.		
IN CONT.	Approx. 6.2 VA at 264 VAC Approx. 5.1 VA at 26.4 VAC Approx. 2.4 W at 12 VDC				
Mounting method	Panel mounting	mounting, DIN track mounti	ing		
External connections	Screw terminals	11-pin socket	8-pin socket	W	
Terminal screw tightening torque	0.5 N · m max.	TW W	MM. TOOX. COM.	TW	
100 m	7-segment, negative transmissive LCD; Present value: 11.5-mm-high characters, red or green (programmable) Set value: 6-mm-high characters, green 7-segment, negative transmissive LCD Present value: 11.5-mm-high characters, red Set value: 6-mm-high characters, green			I.T.	
Digits	4 digits	TI	M. 100 J.		
Time ranges	9.999 s (0.001-s unit), 99.99 s (0.01-s ur 999.9 min (0.1-min unit), 9999 min (1-min	nit), 999.9 s (0.1-s unit), 99 n unit), 99 h 59 min (1-min i	999 s (1-s unit), 99 min 59 s unit), 999.9 h (0.1-h unit), 99	(1-s u 999 h (
Timer mode	Elapsed time (Up), remaining time (Dow	n), selectable	MM 100X		
Input signals	Start, gate, reset	CONL	Start, reset	CO	
MMM.100X MMM.100X	$\begin{array}{c} \mbox{No-voltage Input} \\ \mbox{ON impedance: 1 k} \mbox{Ω max.} \mbox{ (Leakage current: 5 to 20 mA when 0 Ω)} \\ \mbox{ON residual voltage: 1 V max.} \\ \mbox{OFF impedance: 100 k} \mbox{Ω min.} \\ \end{array}$		ON impedance: 1 (Leakage current: when 0 Ω) ON residual voltage	lo-voltage Input 0 -voltage Input 0 N impedance: 1 k Ω ma 0 -eakage current: 5 to 20 0 hen 0 0 0 N residual voltage: 1 V 0 FF impedance: 100 k Ω	
Start, reset, gate	Minimum input signal width: 1 or 20 ms	selectable, same for all inp	put)	To.	
Power reset	Minimum power-opening time: 0.5 s (except for A-3, b-1, and F mode)				
Reset system	Power resets (except for A-3, b-1, and F modes), external and manual reset				
Sensor waiting time	260 ms max. (Control output is turned OFF and no input is accepted during sensor waiting time.)				
Output modes	A, A-1, A-2, A-3, b, b-1, d, E, F, Z, Twin-Timer ON START/OFF START				
One-shot output time	0.01 to 99.99 s	MAN CO	WW WY	44	
MA	SPDT contact output: 5 A at 250 VAC, resistive load (cosφ=1) Minimum applied load: 10 mA at 5 VDC (failure level: P, reference value) Transistor output: NPN open collector, 100 mA at 30 VDC max. residual voltage: 1.5 VDC max. (Approx. 1 V)				
1	Conforms to EN60947-5-1 for Timers with Contact Outputs and EN60947-5-2 for Timers with Transisto puts. NEMA B300 Pilot Duty, 1/4 HP 5-A resistive load at 120 VAC, 1/3 HP 5-A resistive load at 240 VAC				
	Yes	WWW.	V.COM	17	
Memory backup	EEPROM (overwrites: 100,000 times mi	n.) that can store data for	10 years min.		
, ,	Operating: -10 to 55°C (-10 to 50°C if			densa	
	Storage: -25 to 65°C (with no icing o		COM.		
	25% to 85% RH	TAN.	100 r.		
·	Black (N1.5)	M. M			
	Waterproof packing,	None			

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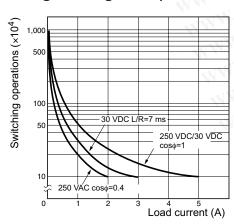
■ Characteristics

Item	H5CX-A□/-A11□/-L8□				
Accuracy of operating time and setting error (in- cluding temperature and voltage influences) (See note 1.)	Power-ON start: $\pm 0.01\% \pm 50$ ms max. Rated against set value Signal start: $\pm 0.005 \pm 30$ ms max. Rated against set value Signal start for transistor output model: $\pm 0.005\% \pm 3$ ms max. (See note 2.) If the set value is within the sensor waiting time at startup the control output of the H5CX will not turn ON until the sensor waiting time passes.				
Insulation resistance	$100~{ m M}\Omega$ min. (at $500~{ m VDC}$) between current-carrying terminal and exposed non-current-carrying metal parts and between non-continuous contacts				
Dielectric strength	2,000 VAC, 50/60 Hz for 1 min between current-carrying terminals and non-current-carrying metal parts 1,000 VAC, 50/60 Hz for 1 min between non-continuous contacts				
Impulse withstand voltage	3 kV (between power terminals) for 100 to 240 VAC, 1 kV for 24 VAC/12 to 24 VDC 4.5 kV (between current-carrying terminal and exposed non-current-carrying metal parts) for 100 to 240 VAC 1.5 kV for 24 VAC/12 to 24 VDC				
Noise immunity	±1.5 kV (between power terminals) for 100 to 240 VAC, ±480 V for 24 VAC/12 to 24 VDC, and ±600 V (between input terminals), square-wave noise by noise simulator (pulse width: 100 ns/1 ms, 1-ns rise)				
Static immunity	Destruction: 15 kV Malfunction: 8 kV				
Vibration resistance	Destruction: 10 to 55 Hz with 0.75-mm single amplitude each in three directions Malfunction: 10 to 55 Hz with 0.35-mm single amplitude each in three directions				
Shock resistance	Destruction: 294 m/s ² each in three directions Malfunction: 98 m/s ² each in three directions				
Life expectancy	Mechanical: 10,000,000 operation min. Electrical: 100,000 operations min. (5 A at 250 VAC, resistive load)				
Approved safety standards (See note 3.)	UL508/Recognition (H5CX-L8: Listing only with OMRON's P2CF-08: or P3G-08 socket), CSA C22.2 No. 14, conforms to EN61010-1 (Pollution degree 2/overvoltage category II) Conforms to VDE0106/P100 (finger protection).				
EMC	EM61326 EM55011 Group 1 class A EM61326 EM61000-4-2: 4 kV contact discharge (level 2) 8 kV air discharge (level 3) EM61000-4-3: 10 V/m (Amplitude-modulated, 80 MHz to 1 GHz) (level 3); 10 V/m (Pulse-modulated, 900 MHz ±5 MHz) (level 3); 10 V/m (Pulse-modulated, 900 MH				
Degree of protection	Panel surface: IP66 and NEMA Type 4 (indoors) (See note 4.)				
Weight					
vveignt	H5CX-A□: Approx. 135 g, H5CX-A11□/-L8□:Approx. 105 g				

Note: 1. The values are based on the set value.

- 2. The value is applied for a minimum pulse width of 1 ms.
- $\textbf{3.} \ \ \text{To meet UL listing requirements with the H5CX-L8} \\ \square, \text{ an OMRON P2CF-08-} \\ \square \text{ or P3G-08 Socket must be mounted on the Timer.} \\$
- 4. Waterproof packing Y92S-29 is necessary to ensure IP66 waterproofing between the H5CX and installation panel.

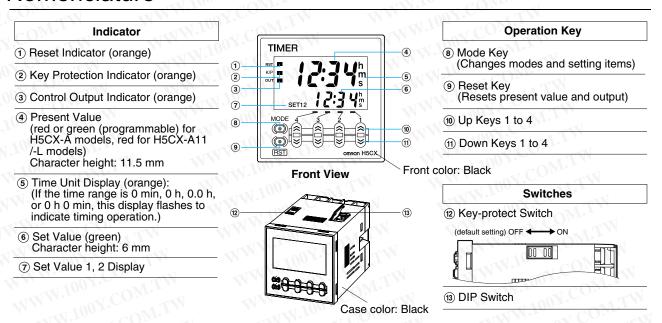
■ Engineering Data (Reference Values)



Reference:

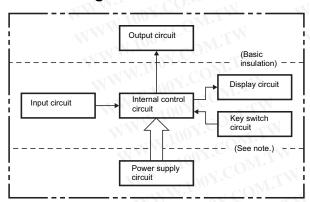
A maximum current of 0.15 A can be switched at 125 VDC ($\cos\phi$ =1) and a maximum current of 0.1 A can be switched if L/R is 7 ms. In both cases, a life of 100,000 operations can be expected. The minimum applicable load is 10 mA at 5 VDC (failure level: P).

Nomenclature



Operation

■ Block Diagram



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Note: Power circuit is not insulated from the input circuit, except for H5CX-A11/-A11S, which have basic insulation.

■ I/O Functions

Item		Description
Inputs	Start signal	Stops timing in A-2 and A-3 (power ON delay) modes. Start timing in other modes.
	Reset	Resets present value. (In elapsed time mode, the present value returns to 0; in remaining time mode, the present value returns to the set value.) Count inputs are not accepted and control output turns OFF while reset input is ON. Reset indicator is lit while reset input is ON.
	Gate	Inhibits timer operation.
Outputs	Control output (OUT)	Outputs take place according to designated operating mode when timer reaches corresponding set value.

Setting Procedure Guide

Settings for Timer Operation

Use the following settings for all models except the H5CX-L8□. Refer to *Quick Setup - Advanced Timer Functions* for the H5CX-L8□.

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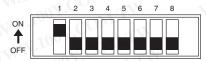
When Using Basic Functions Only

Basic Functions

- Time range (0.001 s to 999.9 h, except 9,999 h and 9,999 min)
- Output mode (A, A-2, E, F)
- Timer mode (UP/DOWN)
- Input signal width (20 ms/1 ms)

The settings can be performed easily with the DIP switch.

⇒For details on setting methods, refer to *Quick Setup - Basic Timer Functions* on the following page.





When Using Other Time Ranges (9,999 h, 9,999 min) and Output Modes (A-1, A-3, b, b-1, d, and Z)

All the functions can be set with the operation keys. ⇒For details on the setting methods, refer to *Quick Setup - Advanced Timer Functions*.

When Using More Specific Settings (Output Time, NPN/PNP Input Mode, Display Color, Key Protect Level)

Setting for items other than the basic functions can be performed with the operation keys.

⇒For details on the setting methods, refer to *Quick Setup - Advanced Timer Functions*.

Note: At the time of delivery, the H5CX is set for timer operation.

■ Settings for Twin Timer Operation

Use the following settings for all models except the H5CX-L8 ... Refer to Operation - Timer/Twin Timer Selection Mode for the H5CX-L8 ...

When Using Basic Functions Only

- _ Basic Functions _ _ _
- Time range (0.01 s to 99 min 59 s)
- ON/OFF start mode
 OFF
- (Repeat cycle OFF start/Repeat cycle ON start)
- Timer mode (UP/DOWN)
- Input signal width (20 ms/1 ms)

The settings can be performed easily with the DIP switch.

⇒For details on setting methods, refer to Quick Setup - Basic Twin Timer Function.





When Using Other Time Ranges (999.9 min, 9,999 min, 99 h 59 min, 999.9 h, 9,999 h, 9.999 s)

All the functions can be set with the operation keys. ⇒For details on the setting methods, refer to *Quick Setup - Advanced Twin Timer Functions*.

When Using More Specific Settings (NPN/PNP Input Mode, Display Color, Key Protect Level)

Setting for items other than the basic functions can be performed with the operation keys.

→For details on the setting methods, refer to Quick Setup - Advanced Twin Timer Functions.

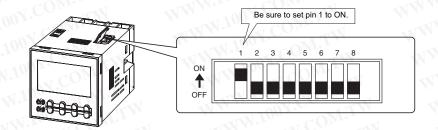
Note: At the time of delivery, the H5CX is set for timer operation.

Operation - Timer Function

■ Quick Setup – Basic Timer Functions

Settings for basic functions can be performed with just the DIP switch.

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	Item	OFF	ON	Pin 2	Pin 3	Pin 4	Time range
١	DIP switch set-	Disabled	Enabled	ON	ON	ON	0.001 s to 9.99
tings enable/ disable	$M_{I,I}$	W.W.	OFF	OFF	OFF	0.01 s to 99.99	
_	Time range	Refer to the ta	ble on the right.	ON	OFF	OFF	0.1 s to 999.9
	Timo rango	TOTAL TO THE TO	iolo on the right.	OFF	ON 🕥	OFF	1 s to 9999 s
11	JW.100 2	OW.	WW	ON	ON	OFF	0 min 01 s to 9 59 s
1	Output mode	Refer to the table on the right.		OFF	OFF	ON	0.1 min to 999.9 min
	Timer mode	Elapsed time (UP)	Remaining time (DOWN)	ON	OFF	ON	0 h 01 min to 99 h 59 min
	Input signal width	20 ms	1 ms	OFF	ON	ON	0.1 h to 999.9
:	All the pins are fa	actory-set to OF	F. T.				
				Pin 5	Pin 6	Ou	utput mode
				OFF	OFF		mode (signal ON d : power reset oper on)
			Using Indicators	ON	OFF	de	2 mode: (power O elay (I): power rese ation)
he ON/OFF status of the DIP switch pins can be onfirmed using the front display. For details, refer to peration in Timer Function Run Mode.				OFF	ON		mode (interval: po set operation)
				ON			

- Note: 1. Be sure to set pin 1 of the DIP switch to ON. If it is set to OFF, any DIP switch settings will not be enabled.
 - 2. Changes to DIP switch settings are enabled when the power is turned ON. (Perform DIP switch settings while the power is OFF.)
 - 3. There is no DIP switch on the H5CX-L8\(\Pi\). For details on the setting methods, refer to \(Quick\) Setup Advanced Timer Function.
 - **4.** When using time ranges or output modes that cannot be set with the DIP switch, all of the settings have to be made using the operation keys. For details on the setting methods, refer to *Quick Setup Advanced Timer Functions*.

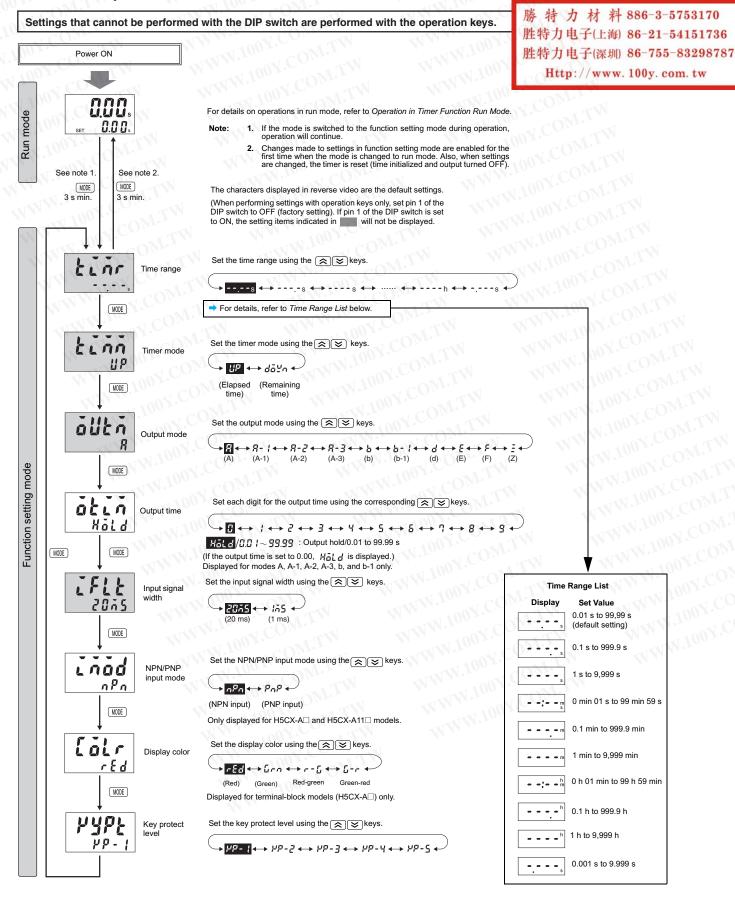


Detailed Settings

After making DIP switch settings for basic functions, detailed settings (see note) can be added using the operation keys. For more details, refer to *Quick Setup - Advanced Timer Functions*.

Note: Key protect level, output time, display color, NPN/PNP input mode.

Quick Setup – Advanced Timer Functions



■ Explanation of Timer Functions

Time Range (ELTO) (Setting possible using DIP switch.)

Set the range to be timed in the range 0.000 s to 9,999 h. Settings of type ---- h (9,999 h) and ---- min (9,999 min) cannot, however, be made with the DIP switch. Use the operation keys if these settings are required.

Timer Mode (Łūnā) (Setting possible using DIP switch.)

Set either the elapsed time (UP) or remaining time (DOWN) mode.

Output Mode (allen) (Setting possible using DIP switch.)

Set the output mode. The possible settings are A, A-1, A-2, A-3, b, b-1, d, E, F, and Z. Only output modes A, A-2, E, and F can be set using the DIP switch. Use the operation keys if a different setting is required. (For details on output mode operation, refer to *Timing Charts*.)

Output Time (atin)

When using one-shot output, set the output time for one-shot output (0.01 to 99.99 s). One-shot output can be used only if the selected output mode is A, A-1, A-2, b, or b-1. If the output time is set to 0.00, $H\bar{a}Ld$ is displayed, and the output is held.

Input Signal Width (*LFLE*) (Setting possible using DIP switch.)

Set the minimum signal input width (20 ms or 1 ms) for signal, reset, and gate inputs. The same setting is used for all external inputs (signal, reset, and gate inputs). If contacts are used for the input signal, set the input signal width to 20 ms. Processing to eliminate chattering is performed for this setting.

NPN/PNP Input Mode (Lnad)

Select either NPN input (no-voltage input) or PNP input (voltage input) as the input format. The same setting is used for all external inputs. For details on input connections, refer to *Input Connections*.

Display Color ([aLr)

Set the color used for the present value.

rEd The present value is displayed in red.

Lrn The present value is displayed in green.

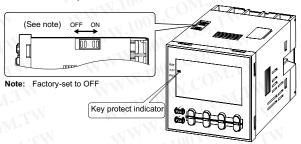
r-Γ. The present value is displayed in red when the control output is OFF, and is displayed in green when the control output is ON.

L-r The present value is displayed in green when the control output is OFF, and is displayed in red when the control output is ON.

Key Protect Level (PYPL)

Set the key protect level.

When the key-protect switch in set to ON, it is possible to prevent setting errors by prohibiting the use of certain operation keys by specifying the key protect level (KP-1 to KP-5). The key protect indicator is lit while the key-protect switch is set to ON. Confirm the ON/OFF status of the key-protect switch after the H5CX is mounted to the panel.



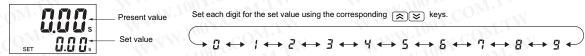
O_{Mr} .	=1 -TXN	N. T. COM
Level	Definitions	1001. TOW. IV
KP-1 (default setting)	MOSE COMMON HSCOX	Prohibits changing the mode to timer/twin timer selection mode or function setting mode. The H5CX can only be used in run mode.
KP-2	omacı HSCX	Prohibits changing the mode to timer/twin timer selection mode or function setting mode. The H5CX can only be used in run mode. Also prohibits use of the reset key.
KP-3	MOS A STATE OF THE	Prohibits changing the mode to timer/twin timer selection mode or function setting mode. The H5CX can only be used in run mode. Also prohibits use of the up and down keys.
KP-4	MOSE OF THE PARTY	Prohibits changing the mode to timer/twin timer selection mode or function setting mode. The H5CX can only be used in run mode. Also prohibits use of the reset, up and down keys.
KP-5	General Michael	Prohibits changing the mode to timer/twin timer selection mode or function setting mode. The H5CX can only be used in run mode. Also prohibits use of any operation keys.

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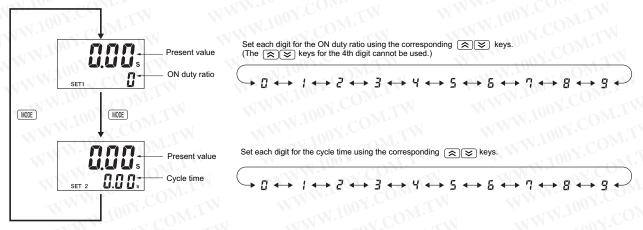
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■ Operation in Timer Function Run Mode

When Output Mode Is Not Z



When Output Mode Z Is Selected



Present Value and Set Value

These items are displayed when the power is turned ON. The present value is displayed in the main display and the set value is displayed in the sub-display. The values displayed will be determined by the settings made for the time range and the timer mode in function setting mode.

Present Value and ON Duty Ratio (Output Mode = Z)

The present value is displayed in the main display and the ON duty ratio is displayed in the sub-display. "SET1" lights at the same time.

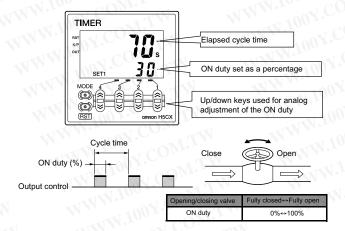
Set the ON duty ratio used in ON/OFF-duty cycle mode (Z) as a percentage.

If a cycle time is set, cyclic control can be performed in ON/OFF-duty cycle mode simply by changing the ON duty ratio.

Present Value and Cycle Time (Output Mode = Z)

The present value is displayed in the main display and the cycle time is displayed in the sub-display. "SET2" lights at the same time.

Set the cycle time used in ON/OFF-duty cycle mode (Z).

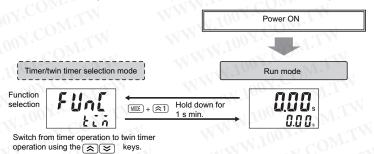




Operation - Twin Timer Function

■ Switching from Timer to Twin Timer

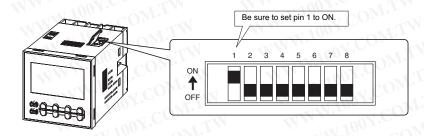
The H5CX is factory-set for timer operation. To switch to twin timer operation, use the procedure given below.



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■ Quick Setup - Basic Twin Timer Functions

Settings for basic functions can be performed with just the DIP switch.



	Item	OFF.	ON	TIWW.IO	Pin 2	Pin 3	OFF	time range
1	DIP switch set-	Disabled	Enabled	W . 100	OFF	OFF	0.01	s to 99.99 s
	tings enable/ disable	OUN.CO.	WT	WWW	ON	OFF	0.1 s	s to 999.9 s
2	OFF time range	Refer to the ta	ble on the right.		OFF	ON	1 s t	o 9,999 s
3		N.100.7	$O_{M:I,I,I}$	1.WW.1	ON	ON	0 mi	n 01 s to 99 min 59 s
4	ON time range	Refer to the ta	ble on the right.	MAL				
5	- 31	W.L		N W				
5	- N N							
6	ON/OFF start	Repeat cycle	Repeat cycle		Pin 4	Pin 5		ON time range
	ON/OFF start mode	Repeat cycle OFF start	Repeat cycle ON start	MANA	Pin 4	Pin 5		ON time range 0.01 s to 99.99 s
				MAAA			Th	AN V AN
	mode	OFF start	ON start		OFF	OFF	Th	0.01 s to 99.99 s

Easy Confirmation of Switch Settings Using Indicators

The ON/OFF status of the DIP switch pins can be confirmed using the front display. For details, refer to *Operation in Twin Timer Function Run Mode*.

Note: 1. Be sure to set pin 1 of the DIP switch to ON. If it is set to OFF, any DIP switch settings will not be enabled.

- 2. Changes to DIP switch settings are enabled when the power is turned ON. (Perform DIP switch settings while the power is OFF.)
- 3. There is no DIP switch on the H5CX-L8□. For details on the setting methods, refer to *Quick Setup Advanced Twin Timer Functions*.
- **4.** When using time ranges or output modes that cannot be set with the DIP switch, all of the settings have to be made using the operation keys. For details on the setting methods, refer to *Quick Setup Advanced Twin Timer Functions*.

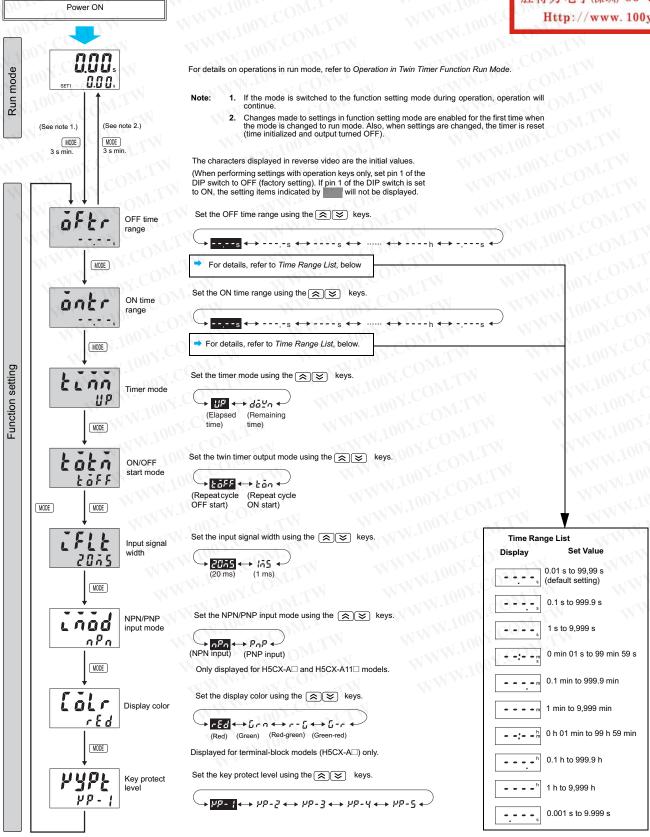
Detailed Settings

After making DIP switch settings for basic functions, detailed settings (see note) can be added using the operation keys. For more details, refer to *Quick Setup - Advanced Twin Timer Functions*.

Note: Key protect level, output time, display color, NPN/PNP input mode.

Quick Setup – Advanced Twin Timer Functions

Settings that cannot be performed with the DIP switch are performed with the operation keys.



■ Explanation of Twin Timer Functions

OFF Time Range (aFtr) (Setting possible using DIP switch.)

Set the time range for the OFF time in the range 0.000 s to 9,999 h. Only settings of type --.- s (99.99 s), ---- s (99.99 s), ---- s (99.99 s), and -- min -- s (99 min 59 s), however, can be made with the DIP switch. Use the operation keys if another type of setting is required.

ON Time Range (ontr) (Setting possible using DIP switch.)

Set the time range for the ON time in the range 0.000 s to 9,999 h. Only settings of type --.-- s (99.99 s), ---- s (999.9 s), ---- s (9,999 s), and -- min -- s (99 min 59 s), however, can be made with the DIP switch. Use the operation keys if another type of setting is required.

Timer Mode (ŁĹńń) (Setting possible using DIP switch.)

Set either UP (incremental) or DOWN (decremental) timer mode. In UP mode, the elapsed time is displayed, and in DOWN mode, the remaining time is displayed.

ON/OFF Start Mode ($L\bar{a}L\bar{n}$) (Setting possible using DIP switch.)

Set the output mode. Set either OFF start or ON start. (For details on output mode operation, refer to *Timing Charts*.)

Input Signal Width (LFLE) (Setting possible using DIP switch.)

Set the minimum signal input width (20 ms or 1 ms) for signal, reset, and gate inputs. The same setting is used for all external inputs (signal, reset, and gate inputs). If contacts are used for the input signal, set the input signal width to 20 ms. Processing to eliminate chattering is performed for this setting.

NPN/PNP Input Mode (Lnad)

Select either NPN input (no-voltage input) or PNP input (voltage input) as the input format. The same setting is used for all external inputs. For details on input connections, refer to *Input Connections*.

Display Color ([alr)

Set the color used for the present value.

rEd The present value is displayed in red.

Len The present value is displayed in green.

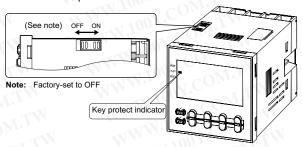
r-□....... The present value is displayed in red when the control output is OFF, and is displayed in green when the control output is ON.

L-r The present value is displayed in green when the control output is OFF, and is displayed in red when the control output is ON.

Key Protect Level (PYPL)

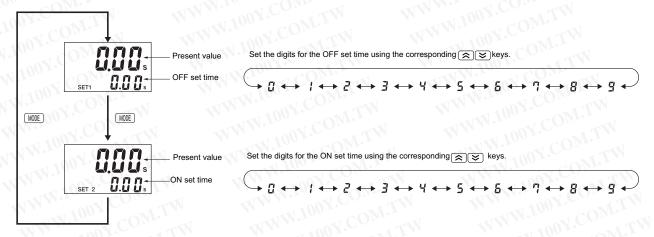
Set the key protect level.

When the key-protect switch in set to ON, it is possible to prevent setting errors by prohibiting the use of certain operation keys by specifying the key protect level (KP-1 to KP-5). The key protect indicator is lit while the key-protect switch is set to ON. Confirm the ON/OFF status of the key-protect switch after the H5CX is mounted to the panel.



) Mar	-11	7 (0)
Level	Definition	1001. CON:11
KP-1 (default setting)	MOSE COMMON HSCOX	Prohibits changing the mode to timer/twin timer selection mode or function setting mode. The H5CX can only be used in run mode.
KP-2	ORIGINAL HSCX	Prohibits changing the mode to timer/twin timer selection mode or function setting mode. The H5CX can only be used in run mode. Also prohibits use of the reset key.
KP-3	MODE TO THE PARTY OF THE PARTY	Prohibits changing the mode to timer/twin timer selection mode or function setting mode. The H5CX can only be used in run mode. Also prohibits use of the up and down keys.
KP-4	With the second History	Prohibits changing the mode to timer/twin timer selection mode or function setting mode. The H5CX can only be used in run mode. Also prohibits use of the reset, up and down keys.
KP-5	omen NSCX	Prohibits changing the mode to timer/twin timer selection mode or function setting mode. The H5CX can only be used in run mode. Also prohibits use of any operation keys.

■ Operation in Twin Timer Function Run Mode



Present Value and OFF Set Time

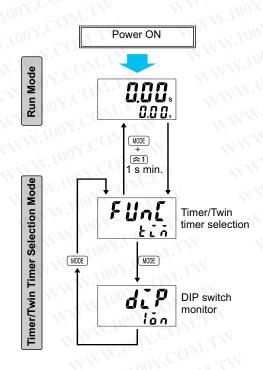
The present value is displayed in the main display and the OFF set time is displayed in the sub-display. "SET1" lights at the same time.

Present Value and ON Set Time

The present value is displayed in the main display and the ON set time is displayed in the sub-display. "SET2" lights at the same time.

Operation - Timer/Twin Timer Selection Mode

Select whether the H5CX is used as a timer or a twin timer in timer/twin timer selection mode. The H5CX is also equipped with a DIP switch monitor function, a convenient function that enables the settings of the DIP switch pins to be confirmed using the front display.





To change the mode to timer/twin timer selection mode, hold down the <a>1 key for 1 s min. with the <a>MODE key held down. The <a>MODE key must be pressed before the <a>1 key. If the <a>1 key is pressed first, the mode will not change.

Select either timer operation or twin timer operation using the Res keys.

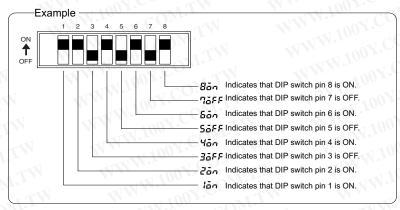
Note: The H5CX is factory-set for timer operation.

Confirm the status of DIP switch pins 1 to 8 using the Rys keys.

Note: 1. This display is not supported with H5CX-L8□.

2. This display is only possible when DIP switch pin 1 (DIP switch settings enable/disable) is set to ON (enable).

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Note: 1. When the mode is changed to timer/twin timer selection mode, the present value is reset and output turns OFF. Timing operation is not performed in timer/twin timer selection mode.

Setting changes made in timer/twin timer selection mode are enabled when the mode is changed to run mode. If settings are changed, the HC5X is automatically reset (present value initialized, output turned OFF).

Timing Charts

■ Timer Operation

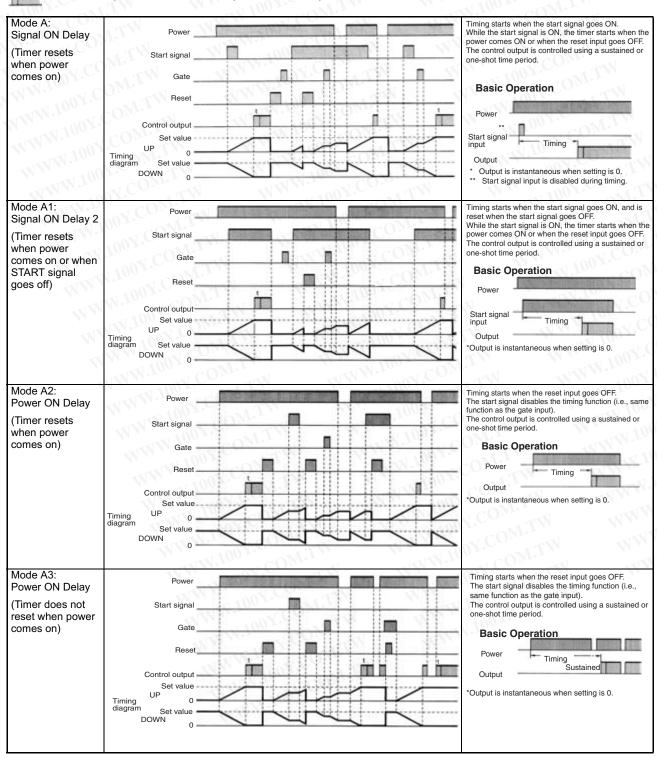
The gate input is not included in the H5CX-L8□ models.

One-shot output

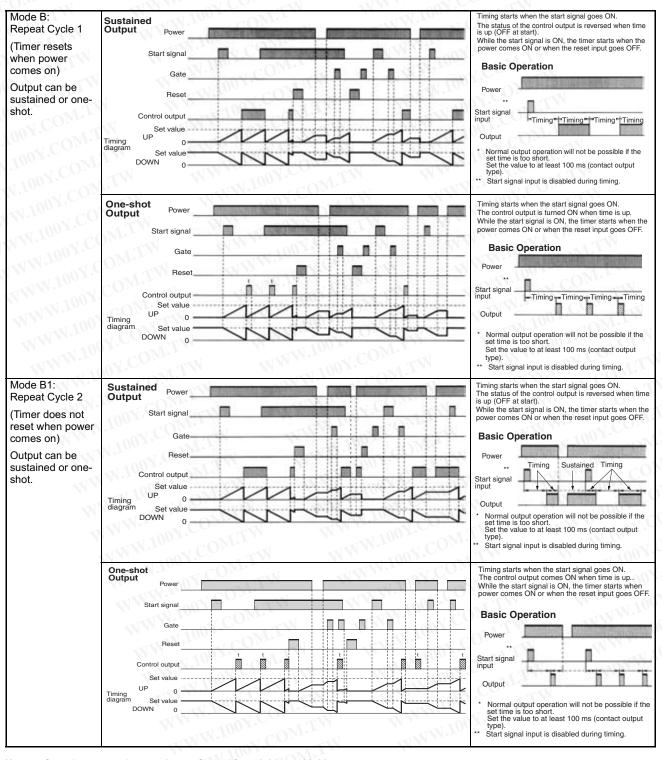
Sustained output

Either one-shot output or sustained output can be selected

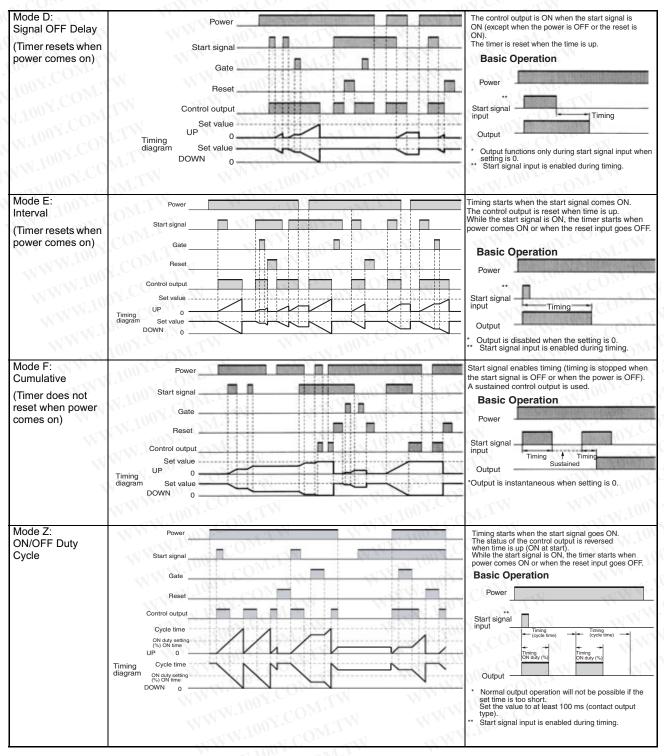
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Note: One-shot output time can be configured from 0.01 s to 99.99 s.



Note: One-shot output time can be configured from 0.01 s to 99.99 s.

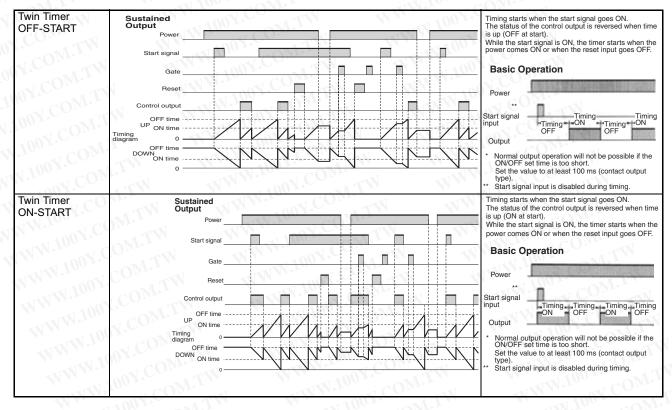


Z Mode

Output quantity can be adjusted by changing the cycle time set in the adjustment level to 1 and by changing the ON duty (%) set value. The set value shows the ON duty (%) and can be set to a value between 0 and 100 (%). When the cycle time is 0, the output will always be OFF. When the cycle time is not 0 and when ON duty has been set to 0 (%), the output will always be OFF. When ON duty has been set to 100 (%), the output will always be ON.

Note: One-shot output time can be configured from 0.01 s to 99.99 s.

■ Twin Timer Operation



Note: One-shot output time can be configured from 0.01 s to 99.99 s.

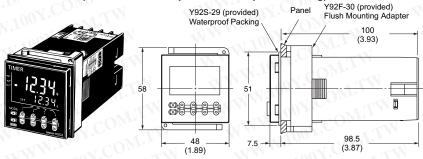
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Dimensions

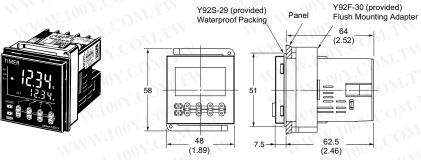
Unit: mm (inch)

■ Dimensions with Flush Mounting Adapter

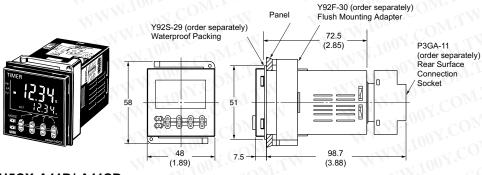
H5CX-A/-AS (Provided with Adapter and Waterproof Packing)



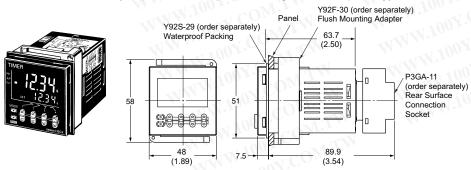
H5CX-AD/-ASD (Provided with Adapter and Waterproof Packing)



H5CX-A11/-A11S (Adapter and Waterproof Packing Ordered Separately)



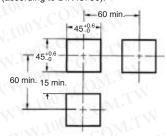
H5CX-A11D/-A11SD (Adapter and Waterproof Packing Ordered Separately)



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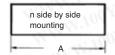
Panel Cutouts

Panel cutouts are as shown below. (according to DIN43700).



Note 1. The mounting panel thickness should be 1 to 5 mm.

- To allow easier operability, it is recommended that Adapters are mounted so that the gap between sides with hooks is at least 15 mm.
- It is possible to mount timers side by side, but only in the direction without the hooks.



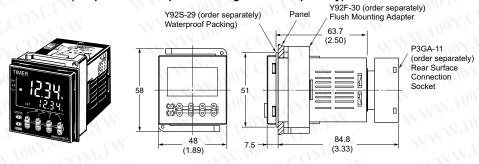
 $A = (48n - 2.5)_{0}^{+1}$

With Y92A-48F1 attached. A = $\{48n-2.5 + (n-1) \times 4\}_{0}^{+1}$

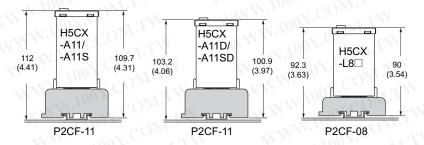
With Y92A-48 attached. A = $(51n-5.5)_{0}^{+1}$

Unit: mm (inch)

H5CX-L8□ (Adapter and Waterproof Packing Ordered Separately)



■ Dimensions with Front Connecting Socket



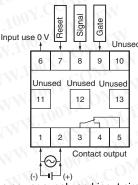
Note: These dimensions vary with the kind of DIN track (reference value).

Installation

■ Terminal Arrangement

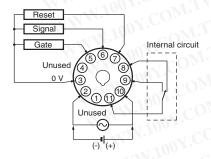
Confirm that the power supply meets specifications before use.

H5CX-A/-AD



The power supply and input circuit are not insulated. Terminals 1 and 6 of the H5CX-AD are connected internally.

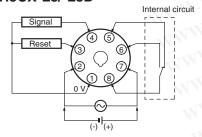
H5CX-A11/-A11D



The power supply and input circuit of the H5CX-A11 have basic insulation. The power supply and input circuit of the H5CX-A11D are not insulated. Terminals 2 and 3 of the H5CX-A11D are connected internally.

H5CX-L8/-L8D

connected internally.

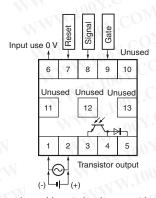


The power supply and input circuit are not insulated.
Terminals 1 and 2 of the H5CX-L8D are

Note: Do not connect unused terminals as relay terminals.

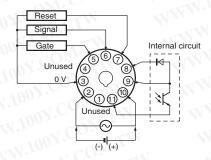
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H5CX-AS/-ASD



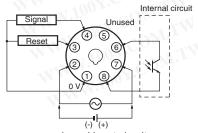
The power supply and input circuit are not insulated. Terminals 1 and 6 of the H5CX-ASD are connected internally.

H5CX-A11S/-A11SD



The power supply and input circuit of the H5CX-A11S have basic insulation. The power supply and input circuit of the H5CX-A11SD are not insulated. Terminals 2 and 3 of the H5CX-A11SD are connected internally.

H5CX-L8S/-L8SD

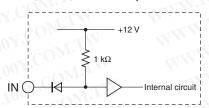


The power supply and input circuit are not insulated.

Terminals 1 and 2 of the H5CX-L8SD are connected internally.

■ Input Circuits

Start, Reset, and Gate Input

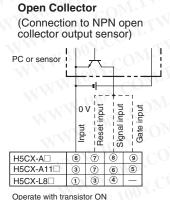


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■ Input Connections

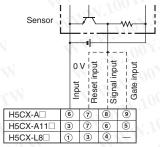
The inputs of the H5CX-A \square /-A11 \square are no-voltage (short-circuit or open) inputs or voltage inputs. The input of the H5CX-L8 \square is no-voltage input only.

No-voltage Inputs (NPN Inputs)



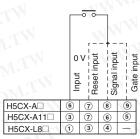
Voltage Output

(Connection to a voltage out put sensor)



Operate with transistor ON

Contact input

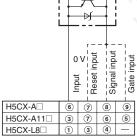


Operate with relay ON

No-voltage Input Signal Levels

No-contact input	Short-circuit level
M	Transistor ON Residual voltage: 2 V max. Impedance when ON: 1 K Ω max. (the leakage current is 5 to 20 mA when the impedance is 0 Ω)
	Open level
	Transistor OFF Impedance when OFF: 100 K Ω min.
Contact input	Use contact which can adequately switch 1 mA at 5 V Maximum applicable voltage: 30 VDC max.

Two-wire Sensor



Operate with transistor ON

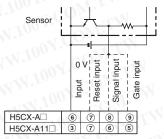
Applicable Two-wire Sensor

Leakage current:
Switching capacity:
Residual voltage:
Operating voltage:
1.5 mA max.
5 mA min.
3 VDC max.
10 VDC

Voltage Inputs (PNP Inputs)

No-contact Input (NPN Transistor)

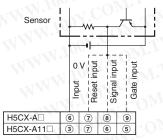
(Connection to NPN open collector output sensor)



Operate with transistor OFF

No-contact Input (PNP Transistor)

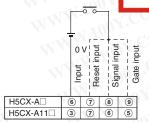
(Connection to PNP open collector output sensor)



Operate with transistor ON

Contact input

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Operate with relay ON

Voltage Input Signal Levels

 $\begin{array}{lll} \mbox{High level (Input ON):} & 4.5 \mbox{ to } 30 \mbox{ VDC} \\ \mbox{Low level (Input OFF):} & 0 \mbox{ to } 2 \mbox{ VDC} \\ \mbox{Maximum applicable voltage:} & 30 \mbox{ VDC max.} \\ \mbox{Input resistance:} & \mbox{Approx. } 4.7 \mbox{ k}\Omega \end{array}$

Note: Power circuit is not insulated from the input circuit, except for H5CX-A11/-A11S, which have basic insulation. For wiring, refer to

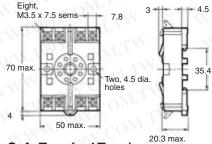
Precautions.

Accessories (Order Separately)

Unit: mm

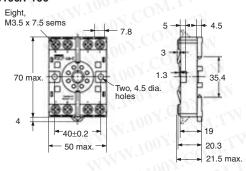
■ Track Mounting/Front Connecting Socket



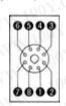


P2CF-08-E (Finger Safe Terminal Type) Conforming to VDE0106/P100





Terminal Arrangement/ Internal Connections (Top View)

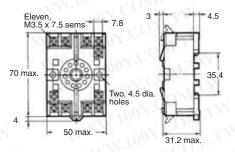


Surface Mounting Holes

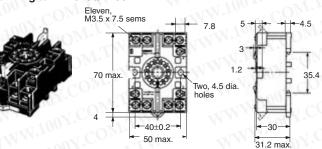
■ Track Mounting/Front Connecting Socket

P2CF-11



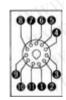


P2CF-11-E (Finger Safe Terminal Type)
Conforming to VDE0106/P100

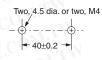


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Terminal Arrangement/ Internal Connections (Top View)



Surface Mounting Holes



■ Back Connecting Socket

P3G-08





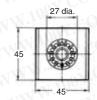


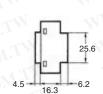
Terminal Arrangement/ Internal Connections (Bottom View)



P3GA-11







Terminal Arrangement/ Internal Connections (Bottom View)



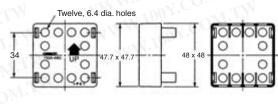
■ Finger Safe Terminal Cover

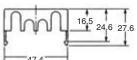
Conforming to VDE0106/P100

Y92A-48G

(Attachment for P3G-08/P3GA-11 Socket)





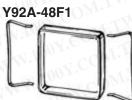


Unit: mm (inch)

■ Hard Cover

Y92A-48

■ Soft Cover



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■ Panel Mounting Adapter

(provided with H5CX-A□ models) Y92F-30



■ Waterproof Packing

(provided with H5CX-A□ models)

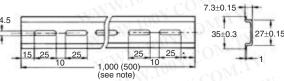
Y92S-29



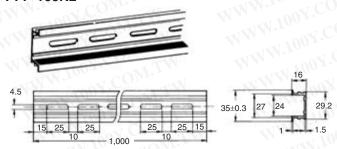
■ Mounting Track

PFP-100N, PFP-50N





PFP-100N2



Note: The values shown in parentheses are for the PFP-50N.

50

11.5

10 M4 x 8 pan head

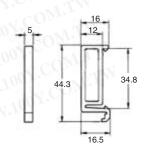
■ End Plate PFP-M



■ Spacer PFP-S

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Precautions

─∕!\ Caution

Do not use the product in locations subject to flammable or explosive gases. Doing so may result in explosion.

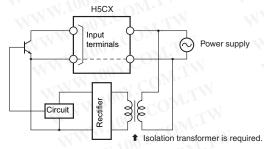
The service life of the output relays depends on the switching capacity and switching conditions. Consider the actual application conditions and use the product within the rated load and electrical service life. Using the product beyond its service life may result in contact deposition or burning.

Do not disassemble, repair, or modify the product. Doing so may result in electric shock, fire, or malfunction.

Do not allow metal objects or conductive wires to enter the product. Doing so may result in electric shock, fire, or malfunction.

■ Power Supplies

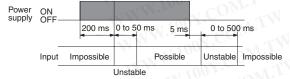
For the power supply of an input device of the H5CX (except for H5CX-A11\(\sigma\)), use an isolating transformer with the primary and secondary windings mutually isolated and the secondary winding not grounded.



Make sure that the voltage is applied within the specified range, otherwise the internal elements of the Timer may be damaged.

Do not touch the input terminals while power is supplied. The H5CX (except for H5CX-A11/-A11S) has a transformer-less power supply and so touching the input terminals with power supplied may result in electric shock.

When turning the power ON and OFF, input signal reception is possible, unstable, or impossible as shown in the diagram below.



Turn the power ON and OFF using a relay with a rated capacity of 10 A minimum to prevent contact deterioration due to inrush current caused by turning the power ON and OFF.

Apply the power supply voltage through a relay or switch in such a way that the voltage reaches a fixed value immediately, otherwise they may not be reset or a timer error may result.

Be sure that the capacity of the power supply is large enough, otherwise the Timer may not start due to inrush current (approx. 10 A) that may flow for an instant when the Timer is turned on.

Make sure that the fluctuation of the supply voltage is within the permissible range.

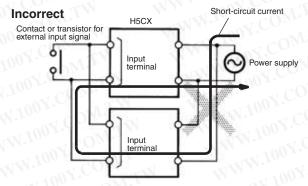
■ Timer Control with Power Start

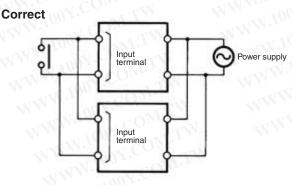
To allow for the startup time of peripheral devices (sensors, etc.), the H5CX starts timing operation between 200 ms to 260 ms after power is turned ON. For this reason, in operations where timing starts from power ON, the time display will actually start from 250 ms. If the set value is 249 ms or less, the time until output turns ON will be a fixed value between 200 and 250. (Normal operation is possible for set value of 250 ms or more.) In applications where a set value of 249 ms or less is required, use start timing with signal input.

When the H5CX is used with power start in F mode (i.e., accumulative operation with output on hold), there will be a timer error (approximately 100 ms each time the H5CX is turned ON) due to the characteristics of the internal circuitry. Use the H5CX with signal start if timer accuracy is required.

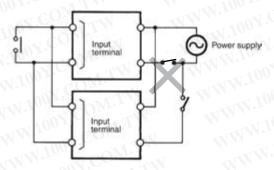
■ Input/Output

The H5CX (except for H5CX-A11/-A11S) uses transformerless power supply. When connecting a relay or transistor as an external signal input device, pay attention to the following points to prevent short-circuiting due to a sneak current to the transformerless power supply. If a relay or transistor is connected to two or more Timers, the input terminals of those Timers must be wired properly so that they will not differ in phase, otherwise the terminals will be short-circuited to one another.





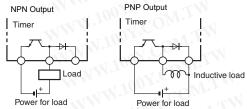
It is impossible to provide two independent power switches as shown below regardless of whether or not the Timers are different in phase.



■ Transistor Output

The transistor output of the H5CX is insulated from the internal circuitry by a photocoupler, so the transistor output can be used as both NPN and PNP output.

The diode connected to the collector of the output transistor is used to absorb inverted voltage that is generated when an inductive load is connected to the H5CX.



■ Self-diagnostic Function

The following displays will appear if an error occurs.

Confirm the error type using the display, and take the appropriate countermeasures.

Main display	Sub- display	Error	Correction
E2	No display	Memory (RAM)	Reset the power supply. If normal operation is still not restored, replacement or repair is necesary. If normal operation is restored, the cause may have been noise.
E2	5Uñ	Memory (EEP) (See note)	Reset to the factory settings using the reset key.
ΕΙ	No display	CPU	Either press the reset key or reset the power supply.

Note: This includes times when the life of the EEPROM has expired.

■ Changing the Set Values

When changing the set value during a timing operation, the output will turn ON if the set value is changed as follows because of the use of a constant read-in system:

Elapsed time mode: Present value ≥ set value

Remaining time mode: Elapsed time ≥ set value (The present value is set to 0.)

Note: When in the remaining time mode, the amount the set value is changed is added to or subtracted from the present value.

■ Operation with a Set Value of 0

Operation with a set value of 0 will vary with the output mode. Refer to the *Timing Charts*.

■ DIP Switch Setting

Ensure that the power is turned OFF before changing DIP switch settings. Changing DIP switch settings with the power turned ON may result in electric shock due to contact with terminals subject to high voltages.

■ Power Failure Backup

All data is stored in the EEPROM when there is power failure. The EEPROM can be overwritten more than 100,000 times.

Operating mode	Overwriting timing
A-3, F mode	When power is turned OFF.
Other mode	When settings are changed.

Response Delay Time When Resetting (Transistor Output)

The following table shows the delay from when the reset signal is input until the output is turned OFF.

(Reference value)

Minimum reset signal width	Output delay time
1 ms	0.8 to 1.2 ms
20 ms	15 to 25 ms

■ Wiring

Wiring input lines in the same conduit as power lines or other high-voltage lines may result in malfunction due to noise. Wire the input lines separately, away from lines carrying high-voltages. In addition, make the input wiring as short as possible and use shield lines or metal wiring conduits.

Mounting

Dense mounting may result in a reduction in the service life of internal parts.

Tighten the two mounting screws on the Adaptor. Tighten them alternately, a little at a time, so as to keep them at an equal tightness

The H5CX's panel surface is water-resistive (conforming to NEMA 4 and IP66). In order to prevent the internal circuit from water penetration through the space between the timer and operating panel, attach a waterproof packing between the timer and installation panel and secure the waterproof packing with the Y92F-30 flush-mounting adapter.

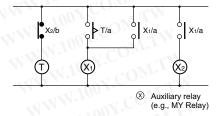


It is recommended that the space between the screw head and the adapter should be

Operating Environment

- Use the product within the ratings specified for submerging in water, and exposure to oil.
- Do not use the product in locations subject to vibrations or shocks. Using the product in such locations over a long period may result in damage due to stress.
- Do not use the product in locations subject to dust, corrosive gases, or direct sunlight.
- Separate the input signal devices, input signal cables, and the product from the source of noise or high-tension cables producing noise.

- Separate the product from the source of static electricity when using the product in an environment where a large amount of static electricity is produced (e.g., forming compounds, powders, or fluid materials being transported by pipe).
- Organic solvents (such as paint thinner), as well as very acidic or basic solutions might damage the outer casing of the Timer.
- Use the product within the ratings specified for temperature and humidity.
- Do not use the product in locations where condensation may occur due to high humidity or where temperature changes are severe.
- Store at the specified temperature. If the H5CX has been stored at a temperature of less than -10°C, allow the H5CX to stand at room temperature for at least 3 hours before use.
- Leaving the H5CX with outputs ON at a high temperature for a long time may hasten the degradation of internal parts (such as electrolytic capacitors). Therefore, use the product in combination with relays and avoid leaving the product as long as more than 1 month with the output turned ON.



■ Insulation

There is no insulation between power supply and input terminals (except for H5CX-A11/-A11S.)

Basic insulation between power supply and output terminals.

Input and output terminals are connected to devices without exposed charged parts.

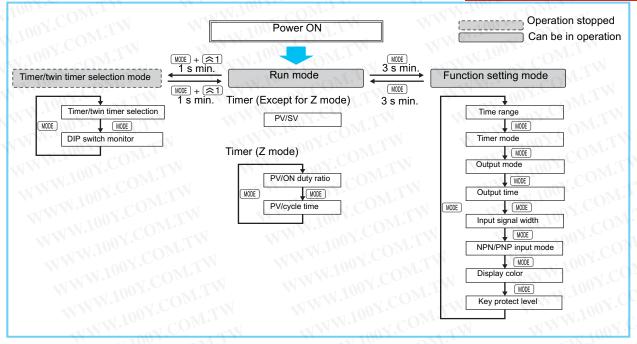
Input and output terminals are connected to devices with basic insulation that is suitable for the maximum operating voltage.

Appendix

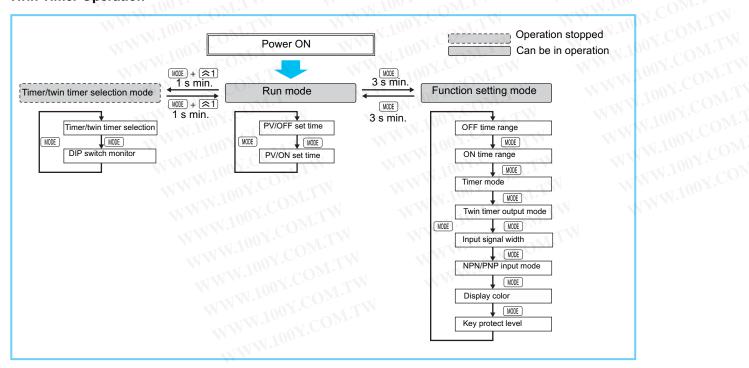
■ Using the Operation Keys

Timer Operation





Twin Timer Operation



Note: 1. All setting changes are performed using the ♠ and ❤ keys.

2. The above flowcharts outline the procedure for all models. For details on specific models, refer to timer or twin timer operation.

■ List of Settings

Fill in your set values in the set value column of the following tables and utilize the tables for quick reference.

Timer/Twin Timer Selection Mode

Parameter name	Parameter	Setting range	Dafault value	Unit
Timer/Twin Timer selection	FUnE	Frū/Fāru	MM.100 Fri COM.1	 0
DIP switch monitor	dīP	ōnlōFF COM	ōFF COM	r W
Settings for Ti	mer Operation	on WW.100Y.COM.	MMM.100X'COM	TW
Run Mode when C	Output Mode Is	Not Z		

Parameter name		Parameter	Setting range	Dafault value	Unit
Present value,	Set value	TIN	0.00 to 99.99 (Time range:,s)	0.00	s
set value	WT	11/1/4	0.0 to 999.9 (Time range:,-s)	0.0	S
	CO_{M1}	VIVIX	0 to 9999 (Time range:s)	N O	S
	OWIT	-31	0:00 to 99:59 (Time range:mins)	0:00	min; s
	WILL	Al As	0.0 to 999.9 (Time range:,-min)	0.0	min
	COM.	VV	© to 9999 (Time range:min)	0	min
	COMIT		0:00 to 99:59 (Time range:hmin)	0:00	h; min
	OY. COTTY		0.0 to 999.9 (Time range:,-h)	0.0	h
	COM	N ×	0 to 9999 (Time range:h)	D	h
	00_{II}		0.000 to 9.999 (Time range: -,s)	0.000	s CONT
	Present value		Same as set value	Same as left	Same as left

Run Mode when Output Mode = Z

Parameter name	e 1007.	Parameter	Setting range	Dafault value	Unit
Present value,	Cycle time	ULT	0.00 to 99.99 (Time range:,s)	0.00	S
cycle time	W.100 1.	OM.	0.0 to 999.9 (Time range:,-s)	0.0	s CO
	M. 1007.	TITIN	0 to 9999 (Time range:s)	0	S
	INN.I	COM	©:00 to 99:59 (Time range:mins)	0:00	min; s
	1 100 ·	COM	0.0 to 999.9 (Time range:,-min)	0.0	min
	1100	Til	0 to 9999 (Time range:min)	0	min
	WWW.	V.Co	0:00 to 99:59 (Time range:hmin)	0:00	h; min
	W.10	COM	0.0 to 999.9 (Time range:,-h)	0.0	h
	MW.	DOX.	0 to 9999 (Time range:h)	0	h 100
	MM	W.Co.	0.000 to 9.999 (Time range: -,s)	0.000	s
	Present value	Inc. COL	Same as cycle time above	Same as left	Same as left
Present value,	ON duty ratio	1001	0 to 100	0	%
ON duty ratio	Present value	TO CO	Same as cycle time above	Same as left	Same as left

Function Setting Mode

Parameter name	Parameter	Setting range	Dafault value	Unit
Time range	E LACO	,s/s/min/min/min/h	WILL	
Timer mode	Frui	UP/dōYn	UP	
Output mode	āUĿñ	R/R- I/R-2/R-3/6/6- I/d/E/F/E	Я	
Output time	ōŁūō	HāLd/0.0 I to 99.99	HōLd	s
Input signal width	TFLE (2055/ ISS	20ā5	
NPN/PNP input mode	īnād	nPn/PnP	nPn	
Display color	[ōLr	rEdlörülr-ölö-r	rEd	
Key protect level	PSPE -	PP- 11PP-21PP-31PP-41PP-5	PP- 1	

Settings for Twin Timer Operation

Run Mode

Parameter name	e	Parameter	Setting range	Dafault value	Unit
Present value,	OFF set time	-TXX 10	0.00 to 99.99 (Time range:,s)	0.00	s
OFF set time	WT	MAN	0.0 to 999.9 (Time range:,-s)	0.0	s
		TIWW.	☐ to 9999 (Time range:s)	D C	S
	M.T.W	W. TXN	0:00 to 99:59 (Time range:mins)	0:00	min; s
	WT	MM	0.0 to 999.9 (Time range:,-min)	0.0	min
	$0_{M^{**}}$		0 to 9999 (Time range:min)	0	min
	OW.T.W	- T	0:00 to 99:59 (Time range:hmin)	0:00	h; min
	TW	A A	0.0 to 999.9 (Time range:,-h)	0.0	h
	COMP	-XIV	0 to 9999 (Time range:h)	0	h
	TOM.TW	4	0.000 to 9.999 (Time range: -,s)	0.000	S
	Present value	N W	Same as OFF set time above	Same as left	Same as left
Present value,	ON set time	ol s	Same as OFF set time above	Same as left	Same as left
ON set time	Present value		Same as OFF set time above	Same as left	Same as left

Function Setting Mode

Parameter name	Parameter	Setting range	Dafault value	Unit
OFF time range	ōFŁr	,s/,-s/s/min/,-min/min/h	,s	Y.COM.
ON time range	öntr	,s/,-s/s/min/,-min/min/s	,s	ON.COM
Timer mode	Frāā	UPIdōYn	UP	COD
ON/OFF start mode	ŁōŁō	ŁōFF/Łōn	ŁōFF	100 J.
Input signal width		20ñ5/ lñ5	2055	OV.CO
NPN/PNP input mode	īnād	nPn/PnP	nPn	700
Display color	[ōLr	rEdlörülr-ölö-r	rEd	4-100 A.
Key protect level	YYPE	PP- 11PP-21PP-31PP-41PP-5	PP- 1	- 00X.

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Cat. No. L101-E3-1A

01/02/7.5M

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Printed in USA