Autonics LCD Display Counter/Timer CX SERIES

INSTRUCTION MANUAL





Thank you for choosing our Autonics product Please read the following safety considerations before use

Safety Considerations

×Please observe all safety considerations for safe and proper product operation to avoid hazards. **Safety considerations are categorized as follows. ⚠Warning Failure to follow these instructions may result in serious injury or death.
⚠Caution Failure to follow these instructions may result in personal injury or product damage. **The symbols used on the product and instruction manual represent the following ▲ symbol represents caution due to special circumstances in which hazards may occur.

1. Fail-safe device must be installed when using the unit with machinery that may cause serious injury or substantial economic loss. (e.g. nuclear power control, medical equipment, ships, vehicles, railways, aircraft, combustion apparatus, safety equipment, crime/disaster prevention devices, etc.)

Failure to follow this instruction may result in personal injury, fire, or economic loss.

2. The unit must be installed on a device panel before use.
Failure to follow this instruction may result in electric shock.

3. Do not connect, repair, or inspect the unit while connected to a power source.

Failure to follow this instruction may result in electric shock.

Failure to follow this instruction may result in electric shock.

4. Do not disassemble or modify the unit. Please contact us if necessary. Failure to follow this instruction may result in electric shock or fire.

▲ Caution

1. Do not use the unit outdoors. Failure to follow this instruction may result in shortening the life cycle of the unit, or electric shock. 2. When connecting the power input and relay output cables, use AWG20 (0.05mm²) cables and make sure to tighten the terminal screw bolt above 0.74 to 0.90N·m. Failure to follow this instruction may result in fire due to contact failure.

3. Use the unit within the rated specifications.

Failure to follow this instruction may result in shortening the life cycle of the unit, or fire.

 A Do not use loads beyond the rated switching capacity of the relay contact.
 Failure to follow this instruction may result in insulation failure, contact melt, contact failure, relay broken, or fire. broken, or nire.

5. Do not use water or oil-based detergent when cleaning the unit. Use dry cloth to clean the unit. Failure to follow this instruction may result in electric shock or fire.

6. Do not use the unit where flammable or explosive gas, humidity, direct sunlight, radiant heat,

vibration, or impact may be present.

Failure to follow this instruction may result in fire or explosion.

7. Keep dust and wire residue from flowing into the unit.

Failure to follow this instruction may result in fire or product damage.

For more information about counter/timer, refer to user manual Visit our website (www.autonics.com) and download it.

Ordering Information CX | 6 | S | - | 1P | 4 | F Signal input method No mark Selectable voltage input (PNP) no-voltage input (NPN) Free voltage input 24VAC 50/60Hz. 24-48VDC 100-240VAC 50/60Hz 1-stage setting 2-stage setting DIN W48×H48mm Display digit 999999 (6-digit) LCD Display Counter/Timer

Unit Description CX6M Series • CX6S Series 888888 12 13 14 12 13

1. Counting value display component (red)
RUN mode: Displays counting value for counter operation or time progress value for timer operation. Function setting mode: Displays parameter.

2. Setting value display component (green)
RUN mode: Displays setting value.
Function setting mode: Displays parameter setting value.

3. Time unit indicator (h:m:s): Turns ON for time unit for timer.

4. Key lock indicator (@]: Turns ON for key lock setting.

5. Reset input indicator (RST): Turns ON for reset key input or reset signal input.

6. INH indicator (INH)
: For selectable voltage input (PNP), no-voltage input (NPN) model (CX6□H□□), it turns ON for

6. INH indicator (INH)

: For selectable voltage input (PNP), no-voltage input (NPN) model (CX6□→□), it turns ON for INHIBIT signal input. (in case of CX6S Series and timer mode, it turns ON for INB/INH signal input.) For free voltage input model (CX6□→□F), it turns ON for INB/INH signal input for timer.

7. Output indicator (OUT1, OUT2): Turns ON for the dedicated control output ON.

8. SV checking and changing indicator (SET, SET1, SET2) (green)

: Turns ON when checking and changing SV.

9. COUNTER indicator (COUNTER): Turns ON for counter operation.

10. TOTAL indicator (SET) (counter display mode, it turns ON with the COUNTER indicator.

: In case of TOTAL counter display mode, it turns ON with the COUNTER indicator.

11. TIMER indicator (TIMER)

12. RESET key
RUN mode, Function setting mode

: Press the RESET key to reset the counting value and turn OFF the output.

TOTAL counter display mode^{*1}: Press the RESET key to reset the counting value of TOTAL counter.

13. MODE key
RUN mode: Hold the MODE key over 3 sec to enter function setting mode.

Press the MODE key to select SV2 (SET2)/ SV1 (SET1)/TOTAL counter^{×1} display for counter operation.

Press the MODE key to select SV2 (SET2)/ SV1 (SET1)/TOTAL counter **¹ discounter operation.

Function setting mode: Hold the MODE key over 3 sec to return RUN mode.

Press the MODE key to save the SV and enter the next setting.

Function setting check mode: Hold the MODE key over 1 sec to return RUN mode.

Changing SV mode: Press the MODE key to save SV and return RUN mode.

14. (② ③ 图 key

1) ⑥ key

RUN mode: Press the ⑥ key to change SV and move SV (SET, SET1, SET2) digits.

Changing SV mode: Press the ⑥ key to change digits.

2) ⑤ 图 key

Changing SV mode: Increases or Decreases SV.

Function setting mode: Changes the settings.

**1: For selectable voltage input (PNP), no-voltage input (NPN) model (CX6 □ □ □).

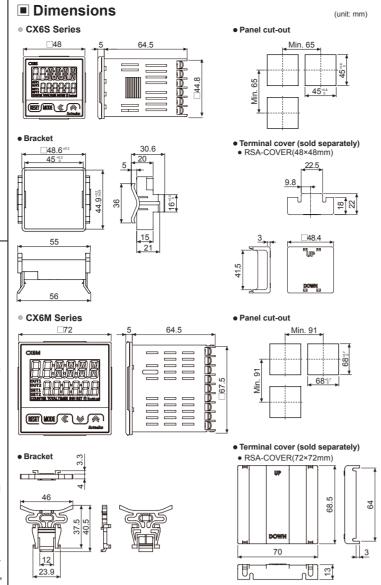
※1: For selectable voltage input (PNP), no-voltage input (NPN) model (CX6□-□□).

Specifications

CX6S-1PDD CX6S-2PDD CX6M-1PDD CX6M-2PDD

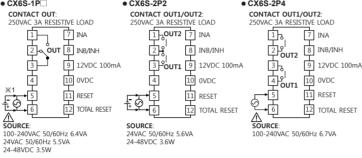
Dis				CX6S-1P	CX6S-2P	CX6M-1P	CX6M-2P		
	play	digits	3	6-digit					
				7-segment (1st, 2		ng value display: r	ed,		
Dis	play	meth	od	settin	ig value display: g	reen),			
_		-			ther digits of coun	ting value display:	red) LCD metho		
	aracte		unting value	4.5×10mm		7×13mm			
size (W×H)				3.5×7mm 5×9mm					
Po	wer AC voltage		voltage	100-240VAC~ 50/60Hz					
sup			C/DC voltage	24VAC~ 50/60Hz	, 24-48VDC				
Per	missi	ible v	oltage range	90 to 110% of rate	ed voltage				
	100		CX6□-□□	Max. 6.4VA	Max. 6.7VA	Max. 7.1VA	Max. 7.5VA		
	volt	tage	CX6□-□□F	Max. 3.2VA	Max. 3.9VA	Max. 3.2VA	Max. 4.2VA		
le le	₫—			AC: Max. 5.5VA	AC: Max. 5.6VA	AC: Max. 6.2VA	AC: Max. 6.3VA		
Consumption	AC.	/DC	CX6□-□□	DC: Max. 3.5W	DC: Max. 3.6W	DC: Max. 4W	DC: Max. 4.1W		
т,	volt	tage	0.000	AC: Max. 2.6VA	AC: Max. 3.0VA	AC: Max. 2.6VA	AC: Max. 3.5VA		
(ت	-	CX6□-□□F	DC: Max. 1.4W	DC: Max. 1.7W	DC: Max. 1.4W	DC: Max. 1.9W		
	Мах.		CX6□-□□	Salastable 1eps/3	20ana/200ana/1ka	nc/Ekono			
INA/IN		INB	CXOLFLL	Selectable Tcps/3	30cps/300cps/1kc	ps/5kcps			
<u>_</u>	coun		CX6□-□□F	20cps					
	spee			·					
8			range	-99999 to 999999					
O	Scale			Decimal point up	to fifth digit				
ı	Min. s	ignal	CX6□-□□	RESET, TOTAL R	RESET signal: Sel	ectable 1ms/20ms	•		
	width	-	CX6□-□□F	RESET signal: 25	ms				
\neg	Tierr					9999s, 99m59.99	s, 999m59.9s.		
ļ	Time	rang	je			9h59m59s, 9999			
-	Oper	ation	mode	Up, Down		,			
ا			CX6□-□□		ET. TOTAL RESET	signal: Selectable	1ms/20ms		
ē	width	-grial	CX6U-UUF	INA, INH, RESET		ga colociable			
Timer		at a							
	Repe Set e		101			tart: max. ±0.01%			
Į		_		In case of signal ON start: max. ±0.01% ±0.03s [CX6□ - □ □F]-In case of power ON start: max. ±0.01% ±0.08s In case of signal ON start: max. ±0.01% ±0.06s					
Į	Volta								
	Temp	o. err	or	In	case of signal ON	Start: max. ±0.019	6 ±0.06S		
						o-voltage input (N	IPN)		
				[Voltage input (PNP)]-input impedance: 10.8kΩ, [H]: 5-30VDC, [L]: 0-2VDC					
			CX6□-□□						
				[No-voltage input (NPN)]-short-circuit impedance: max. 1kΩ, short-circuit residual voltage: max. 2VDC					
	nput								
					short-circ	uit residual voltag	e: max. 2VDC		
	ut thod			[Free voltage inpu	short-circ	uit residual voltag INB (INHIBIT) inp	e: max. 2VDC ut		
			2,425,555	[H]: 24	short-circ ut]-INA (START) , 1-240VDC/24-24	uit residual voltag	e: max. 2VDC ut		
			CX6□-□□F	[Free voltage inpu [H]: 2 ⁴ [No-voltage input	short-circ ut]-INA (START) , 4-240VDC/24-24]-RESET input	uit residual voltag INB (INHIBIT) inp 0VAC~ 50/60Hz,	e: max. 2VDC ut		
			CX6□-□□F	[H]: 24	short-circu ut]-INA (START) , 4-240VDC/24-24 J-RESET input short-circuit impe	uit residual voltag INB (INHIBIT) inp 0VAC~ 50/60Hz, edance: max. 1kΩ,	e: max. 2VDC ut [L]: 0-10VDC/VA		
me	thod			[H]: 24 [No-voltage input]	short-circult]-INA (START), 4-240VDC/24-24]-RESET input short-circuit imposhort-circuit resident	uit residual voltag INB (INHIBIT) inp 0VAC~ 50/60Hz,	e: max. 2VDC ut [L]: 0-10VDC/VA		
me	thod	ot out	tput time	[H]: 24 [No-voltage input] 0.01 to 99.99s se	short-circut]-INA (START), 4-240VDC/24-24 J-RESET input short-circuit impe short-circuit resid	uit residual voltag INB (INHIBIT) inp 0VAC~ 50/60Hz, edance: max. 1kΩ, dual voltage: max.	e: max. 2VDC ut [L]: 0-10VDC/VA		
On	e-sho	ot out	tput time	[H]: 24 [No-voltage input] 0.01 to 99.99s se SPDT (1c): 1	short-circut]-INA (START), 4-240VDC-=/24-24]-RESET input short-circuit impu short-circuit residuting SPST (1a): 2	uit residual voltag INB (INHIBIT) inp $0VAC\sim 50/60Hz$, edance: max. $1k\Omega$, dual voltage: max.	e: max. 2VDC ut [L]: 0-10VDC/VA 2V SPDT (1c): 2		
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One Coult Ship Ship Ship Ship Ship Ship Ship Ship	e-sho ntrol put ternal mory ulatic electri ise munit ock lay life cle otectio viron- nt prova	Solid state I power reterence ic structure i	tput time act Type Capacity Type Capacity Type Capacity Type Capacity Type Capacity Type Capacity Tope Capacity To	[H]: 24 [No-voltage input] 0.01 to 99.99s set SPDT (1c): 1 Max. 250VAC~ 3. Max. 12VDC~ ±1! Approx. 10 years Over 100MΩ (at 5 2,000VAC 50/60) Square-wave nois Square-wave nois 0.75mm amplitud direction for 1 hou 0.5mm amplitude direction for 10 m 300m/s² (approx. Min. 5,000,000 op Front part: IP50 (1-10 to 55°C, stora; 35 to 85%RH, sto C € Approx. 147g (approx. 116.8g) Approx. 39g (approx. 92g)	short-circo short-circo stil-INA (START) 4-240VDC/24-24 J-RESET input short-circuit impy short-circuit resid titing [SPST (1a): 2 A resistive load 0%, 100mA (non-volatile mem 600VDC megger) 4z for 1 min se by noise simula se by noise simula se by noise simula se at frequency 10 ur at frequency 10 ur at frequency 10 ur at frequency 10 cr at frequency	uit residual voltag INB (INHIBIT) inp OVAC~ 50/60Hz, dance: max. 1kΩ, fual voltage: max. SPDT (1c): 1 Max. 250VAC~ 3 NPN open collector: 1 Max. 30VDC···· 10 tor (pulse width 1 tor (pulse width 1 to 55Hz (for 1 min) 55Hz (for 1 min) 7, Z direction for 3 to 4 Approx. 249g (approx. 185.5g) Approx. 248g (approx. 184.5g) Approx. 248g (approx. 184.5g)	e: max. 2VDC ut [L]: 0-10VDC/V/ 2V SPDT (1c): 2 A resistive load [MPN open collector 0mA us) ±2kV us) ±500V) in each X, Y, Z times times Approx. 254g (approx. 180.5c Approx. 237g (approx. 157g) Approx. 253g		
On Could Exist Me She Recycles The She R	e-shot ternal te	Solid state I power rete on resident state ACO Memory A	iput time act Type Capacity Type Capacity rer supply** Intion sistance ength Color voltage chanical alfunction echanical alfunction ructure abient temp. abient humi. CX6 - F	[H]: 24 [No-voltage input] 0.01 to 99.99s set SPDT (1c): 1 Max. 250VAC~ 3. Max. 12VDC— ±14 Approx. 10 years Over 100MΩ (at § 2,000VAC 50/60) Square-wave nois 0.75mm amplitud direction for 1 hou 0.5mm amplitud direction for 1 not 0.5mm amplitud direction for 10m 300m/s² (approx. 100m/s² (approx. 100m/s² (approx. 100m/s² (approx. 15,000,000 ope) Front part: IP50 (1-10 to 55°C, stora; 35 to 85%RH, sto C€ Approx. 147g (approx. 143g (approx. 139g (approx. 192g) Approx. 192g) Approx. 192g	short-circo short-circo shif-liNA (START), 4-240VDC-/24-24 J-RESET input short-circuit impy short-circuit resident short-circuit resident short-circuit imp short-circuit resident short-circuit imp short-circuit resident short-circuit resident short-circuit imp short-circuit resident short-circuit imp short-circuit resident short-circuit imp short-circuit resident short-circuit imp sh	uit residual voltag INB (INHIBIT) inp OVAC~ 50/60Hz, dance: max. 1kΩ, dual voltage: max. SPDT (1c): 1 Max. 250VAC~ 3 NPN open collector: 1 Max. 30VDC~ 10 tor (pulse width 1) tor (pulse width 1) tor (pulse width 1) to 55Hz (for 1 min) 55Hz (for 1 min) 7 Z direction for 3 1 Approx. 249g (approx. 185.5g) Approx. 233g (approx. 153g) Approx. 248g	e: max. 2VDC ut [L]: 0-10VDC/VA 2V SPDT (1c): 2 A resistive load NPN open collector 10mA us) ±2kV us) ±500V) in each X, Y, Z in each X, Y, Z times times Approx. 254g (approx. 180.5g Approx. 237g (approx. 157g)		

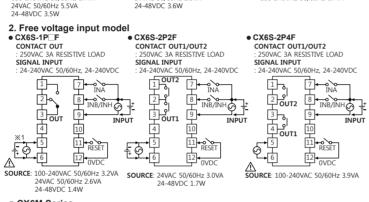
XThe above specifications are subject to change and some models may be discontinued

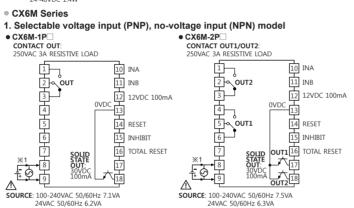


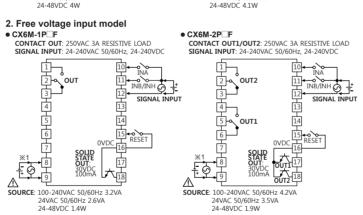
Connections CX6S Series

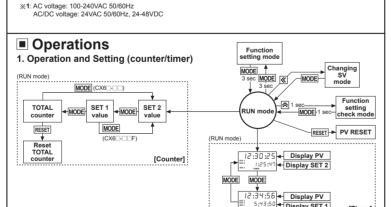
1. Selectable voltage input (PNP), no-voltage input (NPN) model











1-1. Function setting mode

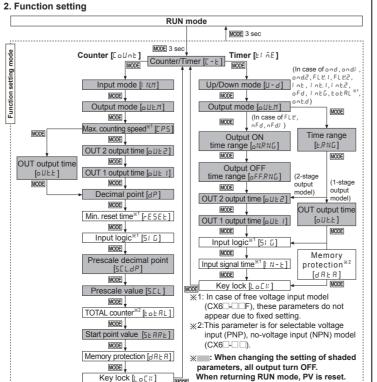
Hold the MODE key over 3 sec to enter function setting mode in RUN mode Set the function by the MODE, ⋈, keys.

Hold the MODE key over 3 sec to return RUN mode in function setting mode 1-2. Function setting check mode Hold the key over 1 sec to enter function setting check mode in RUN mode.

When checking the saved parameters, press the MODE, key to check next item and press the key to check previous item. old the MODE key over 1 sec at function setting check mode and it returns to RUN mode

In RUN mode, function setting mode, press the RESET key to reset the current value and the output At TOTAL counter display mode $^{\rm x1}$, press the RESET key to reset TOTAL counter counting value and the current counting value.

X1: For selectable voltage input (PNP), no-voltage input (NPN) model (CX6□→□).
TOTAL counter display mode is only for counter operation.



Counter Mode 1. Parameter setting (MODE key: Moves parameters, ⊌, R key: Changes parameter setting values Counter/Timer ※EoUnt: Counter CoUnt ← → ti ñE → UP ← → UP - 1 ← → UP - 2 ← → UP - 3 ← → dn ← → dn - 1 ← → Ud-[*1 ← → Ud-b*1 ← → Ud-R ← → dn-3 ← → dn-2 ← Input mode is UP, UP- 1, UP-2, UP-3 or do. do- 1, do-2, do-3, F -- > n --> [--> r --> +-> P --> P --> P Output mode Input mode is Ud-A, Ud-b*1, Ud-[*1 F↔n ↔E↔r ↔ Ľ ↔P ↔ 9 ↔ 8 ↔ 5 ↔ Ŀ ↔ d If max. counting speed is 5kcps, and output mode is d, max. counting speed is automatically changed as 30cps, factory default. *Max. counting speed is when duty ratio of INA of 30 → 300 → 12 → 52 → 1 IINB input signal is 1:1.

It is applied for INA, or INB input as same.

When output mode is d, set max. counting speed one among 1cps, 30cps, 300cps, or 1kcps. OUT 2 *Set one-shot output time of OUT 2. *Setting range: 00.01 to 99.99 sec [6UE2] When output mode is F, n, 5, E, d, this parameter does not appear. (fixed as HOLD)

In the control of the XSet one-shot output time of OUT 1. OUT 1 Setting range: 00.01 to 99.99 sec, Hold output time* *When output mode is 5, b, d, this parameter does not appear. (fixed as HOLD) OUT XSetting range: 00.01 to 99.99 sec output time* *When output mode is F, n, 5, b, d, this parameter does not appear. (fixed as HOLI [o U t.t] Decimal point Min. reset time3 1 ← → 20, unit: ms XSet min. width of external reset signal input [r E S E E] Input logic³ nPn: No-voltage input, PnP: Voltage input Prescale decimal point ※Decimal point of prescale should not set smaller than decimal point [dP] *Setting range of prescale is linked with prescale decimal point [5£L.dP] setting. value [5[L] TOTAL counter [LotAl] ※Setting range of start point value is linked with decimal point [dP] setting. Start point (0.00000 to 999999) When input mode is dn, dn-1, dn-2, this parameter does not appear. [SEARE] *When total count function is ON, this parameter does not appear. Memory XELr: Resets the counting value when power OFF. rEC: Maintains the counting value when power OFF. [AAFB] (memory protection) LoC3: Locks (S. 🗵, (S.) (A) keys, key lock indicator turns ON LoC3 ← LoC3: Locks (S.) (S.) (A) keys, key lock indicator turns ON X1: For voltage input (PNP), no-voltage input (NPN) model (CX6□-□□). *2: For free voltage input (model(CX6)-ID_F), these parameters do not appear due to fixed setting

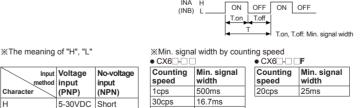
*3: For 1-stage setting model (CX6)-IPD_D, olb / does not appear. The oUE2 output time is displayed as oUEE. *4: Decimal point and prescale decimal point

-Decimal point: Set the decimal point for display value regardless of prescale value. Set the decimal point for prescale value of counting value regardless of display value.

2. Input mode

Input mode	Counting chart	Operation
	INA H	
Up [U <i>P</i>]	INB H No counting 5 6 7	When INA is counting input, INB is no counting input. When INB is counting input, INA is no counting input.
Up-1 [UP- 1]	INB H No counting 4 5	
	INA H	
Up-2 [UP-2]	INB H No counting 3 4	
	0	
Up-3 [UP-3]	INA H INB H Count 1 2 3 5 6	When INA or INB input signal is rising (♣□), it counts. XINA: Counting input XINB: Counting input
	0—————————————————————————————————————	
Down [dn]	INA H No counting INB H NO cou	
Down-1 [d n = 1]	INA H INB H INB L n n-1 n-2 No counting Count 0	
Down-2 [d ∩ - 2]	INA H No counting Count O No counting No counting No counting	
	INA H	
Down-3 [d n - 3]	INB H n-1 n-2 n-3 n-5	
	0	
Up/Down-A [김성 - 유]	INA H INB H Count 2 3 4 3 2 1 2 3 4	XINA: Counting input INB: Counting command input XWhen INB is "L", counting command is up. When INB is "H", counting command is down.
Up/Down-B ^{×1}	INA H 4 4	XINA: Up counting input INB: Down counting input When INA and INB input

%A: over min. signal width, B: over than 1/2 of min. signal width. If the signal is smaller than these width, it may cause counting error (\pm 1).



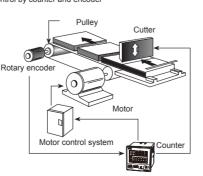
300cps 1.67ms

This function is to set and display calculated unit for actual length, liquid, position, etc. It is called "prescale value" for measured length, liquid, or position, etc per 1 pulse. For example, when moving L, the desired length to be measured, and P, the number of pulses per 1 revolution of a rotary encoder, occurs, prescale value is L/P.

5kcps

E.g.) Positioning control by counter and encoder

0-2VDC Open



[Diameter (D) of pulley connected with encoder= 22mm, the number of pulses by 1 rotation of encoder=1,000]

*Prescale value $= \frac{\pi \times \text{Diameter (D) of pulley}}{\pi \times \text{Diameter (D) of pulley}} = \frac{3.1416 \times 22}{\pi \times 1000} = 0.069 \text{mm/pulse}$ The number of pulses by 1 rotation of encoder 1000

Set decimal point [dP] as [-----], prescale decimal point [5[LdP] as [----], and prescale value [5£L] as [0.069] at function setting mode.

It is available to control conveyer position by 0.1mm unit.

1. Parameter s	etting (MODE key:	Moves param	eters, ⊌, [key: Change	s paramete	r setting v
Parameter Counter/Timer [[-+]	Parameter settin		‰[oUnt tiñE;	: Counter		
Up/Down mode	UP ←→ dn ×UP: Time progre	esses from '0'				
[U-d]	dn: Time progre	esses from the	setting tir	me to '0'.	2 4-> ! o.t.•	
Output mode	ont.d ← ▶ t ot R					1
Time range	TIMER s	9999.99 ™ER .	99999.9 Timer .	999999	99;59.99 TMER	4▶ 999 :
output ON TIME range [aNPNG]*4, output OFF TIME	I — • — —	3999:59 ™ER hon 9	9:59:59 TIMER horse	999999 TIMER m	99999.9. TMER	♦ 9999
range [offRNG]*4 OUT 2 output time*5	XSet one-shot or XSetting range:	00.01 to 99.99	sec, Hold			
OUT 1 output time*5	When 1st digit is Set one-shot or Setting range: 0	utput time of O	UT 1.		old appea	rs.
OUT output	When 1st digit is Setting range: 0	is flashing, pre 00.01 to 99.99	ss the 🔇	key once and h		
[oUŁ.Ł] Input logic ^{*6}					old appea	rs.
Input signal time ^{*6}	/ ← → ≥0, uni	it: ms			T eignal	
[! N-E] Memory protection	[Lr ← ►rE[※[Lr: Resets th	<u> </u>			1 Signal	
[dRER]	r E [: Maintains	the counting with the counting	value whe	n power OFF. (s, key lock indi	cator turns C	OFF
Key lock	↓ LoC.3 ← → LoC.	L o C.2 : Lo	ocks 🔇, 😸	key, key lock in],	ock indicato	or turns O
*4: When output TIME range [a *5: In case of 1-s aut 2 output	mode is and, and, and are range [E.R.N.G.]. mode is FLL, nFd aff.R.N.G.]. stage setting mode time is displayed a e voltage input mo	, nFd. I, set ou el (CX6⊡-1P⊡ [as oUŁŁ .	itput ON T	IME range [aNl	RNG] and ou	itput OFF
setting.	voltage input mo	One-shot outp	out (0.01 to	99 99 sec)	e-shot output	
2-2. Operation	out mode for '0 s by output mo N Delay) mode [a	de ('0' time	,	,		-
INA (START) —	Up mode	Down mod	de	INA (START)		
Setting time 2 ····			-	Setting time 1		
0 OUT 1				OUT 1		
OUT 2 —	ON Delay 1) mod	te food /1		0012		
Set '0' for setting	time 1. Up mode	Down mode	•	• Set '0' for s		
INA (START) — RESET —			П	INA (START) RESET		$-\!$
Setting time 2 ····			÷	Setting time 1		
0 —				0 OUT 1		
OUT 2 —				OUT 2		二
C. OND.2 (Power • Set '0' for setting	ON Delay) mode time 1. Up mode	[ond.2] Down mode		• Set '0' for s		2. mode
POWER -		Down mode	<u>-</u> - -	POWER		
RESET ——Setting time 2 ······			_	RESET Setting time 1		
0 —			_	0		
OUT 1			_	OUT 1		\Rightarrow
	Delay) mode [nFa		_	0012		
• Set '0' for Off_De	elay setting time.			: '0' for On_Del INA (START) -		
	SET	п		RESET -	1 1	
UP On_De			UP	Off Delay		
DISPLAY	0	11/	DISPLA	0 -	_/	4
DOWN On_De	lay 0	7//	DOWN	Off_Delay - 0 -		7
OUT (OU	2	- H - L		OUT 2 (OUT)	1 1	
E. NFD.1 (ON-OF • Set '0' for Off_De	F Delay1) mode [alay setting time.	oFd.1]	• Set	: '0' for On_Del	ay setting tir	me.
INA (STA	ART)			INA (START) -		
RE	SET					
UP On_D		111		Off_Delay		
DISPLAY DOWN On_D	elay —		DISPLA'	Y 0 - Off Delay -		$\exists \exists$

■ Timer Mode

Factory Default

(OUT)

signals are rising (_) at

output A. B phase with counter input, INA, INB, set input mode [NM] as phase

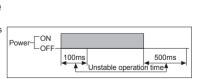
	B	Factory default			
	Parameter	CX6	CX6□-□□F		
	I MM	Ud-C	Ud-R		
	oUŁ.M	F	F		
	CP5	30	_		
	oUt 2 (oUt.t *1)	Hold(fixed)	HoLd(fixed)		
	oUt I ^{*1}	00.10	00.10		
	dР				
Counter	rESEŁ	20 ms			
	51 0	nPn	_		
	SCL.dP		-,		
	5CL	1.00000	1.00000		
	ŁoŁAL ^{™2}	oFF	_		
	SEARE	000000	000000		
	48F8	ELr	CLr		
	U-d	UP	UP		
	o U Ł.M	ond	and		
	oUt 2 (oUt.t **1)	HoLd	HoLd		
Timer	oUt I ^{*1}	00.10	00.10		
	Ł.RNG	999.999s	999.999s		
	51 G *2	nPn			
	1 N-F	20 ms	_		
LoEK		L.oFF	L.oFF		
SET1		1000	1000		
SET2		5000	5000		

 \times 1: For 1-stage setting model (CX6 \square -1P \square), \circ U \vdash I does not appear. The output time of \circ U \vdash I is x2: For selectable voltage input (PNP), no-voltage input (NPN) model (CX6□-□□).

Cautions During Use

1. Power ON/OFF The inner circuit voltage rises within 100ms after supplying the power to the unit.
The inner circuit voltage falls within 500ms after cutting the power to the unit. The input is unavailable at this period.

Be sure that the inner circuit voltage drops



within 500ms after turning OFF the power 2. In case of 24VAC, 24-48VDC model, power supply should be insulated and limited voltage/ current or Class 2, SELV power supply device.

3. Input signal line ①Shorten the cable from the sensor to the unit.

②Use shield cable when input cable is longer.
③Wire the input signal line separately from power line.

4. Input logic selection Before selecting input logic, must cut off the power to counter/timer. Select the input logic following the instruction.

Contact counting input (counter operation)
 If counting speed for counter is high speed mode (300cps, 1kcps, 5kcps) and counting input is

contact, it may cause input signal error by chattering of contact switching.

Set counting speed as low speed mode (1cps or 30cps) for contact counting input.

6. Testing dielectric voltage or insulation resistance when the unit is installed at control panel

①Isolate the unit from the circuit of control panel.

7. Do not use the unit in the following environments

①Environments with high vibration or shock.
②Environments with strong alkali or strong acid materials

①Indoor ②Altitude max. 2,000m

Environments with exposure to direct sunlight
 Near machinery which produce strong magnetic force or electric noise
 This product may be used in the following environments.

③Pollution degree 2 ④Installation category II

※Failure to follow these instructions may result in product damage.

Major Products

Autonics Corporation

EP-KE-01-041