DRW171461AB

Autonics

LCD Display Counter/Timer

CX SERIES

INSTRUCTION MANUAL

CX6S Series　　CX6M Series

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.
※⚠ symbol represents caution due to special circumstances in which hazards may occur.

⚠ 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.

⚠Warning

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 fire, personal injury, or economic loss.
2. **Install on a device panel to use.**
   Failure to follow this instruction may result in electric shock or fire.
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 or fire.
4. **Check 'Connections' before wiring.**
   Failure to follow this instruction may result in fire.
5. **Do not disassemble or modify the unit.**
   Failure to follow this instruction may result in electric shock or fire.

⚠Caution

1. **When connecting the power input and relay output, use AWG 20 (0.50mm²) cable or over, and tighten the terminal screw with a tightening torque of 0.74 to 0.90N·m.**
   Failure to follow this instruction may result in fire or malfunction due to contact failure.
2. **Use the unit within the rated specifications.**
   Failure to follow this instruction may result in fire or product damage.
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.
4. **Do not use the unit in the place where flammable/explosive/corrosive gas, humidity, direct sunlight, radiant heat, vibration, impact, or salinity may be present.**
   Failure to follow this instruction may result in fire or explosion.
5. **Keep metal chip, dust, and wire residue from flowing into the unit.**
   Failure to follow this instruction may result in fire or product damage.

▣ Manual

For the detail information and instructions, please refer to user manual and be sure to follow cautions.
Visit our homepage (www.autonics.com) to download manuals.

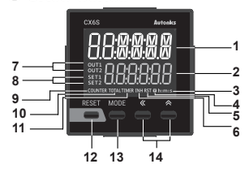
▣ Ordering Information

CX 6 S - 1P 4 F

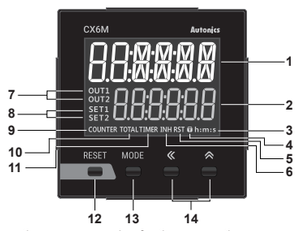
Signal input method	**No mark**	Voltage input (PNP) /no-voltage input (NPN) selectable type
	F	Free voltage input
Power supply	**2**	24VAC 50/60Hz, 24-48VDC
	4	100-240VAC 50/60Hz
Output	**1P**	1-stage setting
	2P	2-stage setting
Size	**S**	DIN W48×H48mm
	M	DIN W72×H72mm
Display digit	**6**	999999 (6-digit)
Item	**CX**	LCD Display Counter/Timer

▣ Unit Description

◎ CX6S Series



◎ CX6M Series



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 the voltage input (PNP)/no-voltage input (NPN) selectable 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※1 (TOTAL)
: In case of TOTAL counter display mode, it turns ON with the COUNTER indicator.
11. TIMER indicator (TIMER)
: Flashes (progressing time) or Turns ON (stopping time) for timer operation.
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.
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. 🔽, 🔼 key
1) 🔽 key
RUN mode: Press the 🔽 key to change SV and move SV (SET, SET1, SET2) digits.
Changing SV mode: Press the 🔽 key to change digits.
2) 🔼 key
Changing SV mode: Increases SV.
Function setting mode: Changes the settings.
※1: This is for the voltage input (PNP)/no-voltage input (NPN) selectable model (CX6□-□□).

▣ Specifications

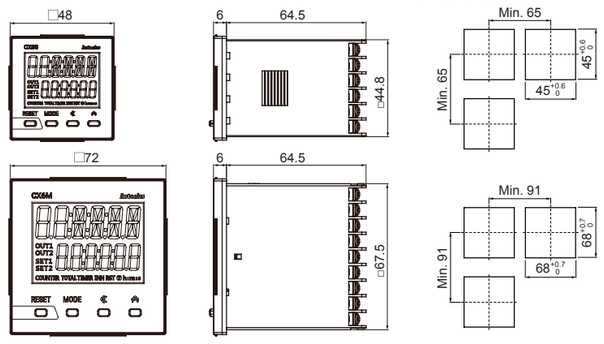
Model		CX6S-1P□□	CX6S-2P□□	CX6M-1P□□	CX6M-2P□□
Display digits		6-digit			
Display method		7-segment (1st, 2nd digits of counting value display: white, setting value display: green) LCD method, 11-segment (the other digits of counting value display: white) LCD method, Operation display part: yellow LCD method			
Character size (W×H)	Counting value	4.1×10.1mm		6.2×15.2mm	
	Setting value	3.3×8.1mm		5×12.3mm	
Power supply	AC voltage	100-240VAC~ 50/60Hz			
	AC/DC voltage	24VAC~ 50/60Hz, 24-48VDC⎓			
Permissible voltage range		90 to 110% of rated voltage			
Power consumption	AC voltage CX6□-□□	Max. 6.4VA	Max. 6.7VA	Max. 7.1VA	Max. 7.5VA
	AC voltage CX6□-□□F	Max. 4.2VA	Max. 4.9VA	Max. 4.7VA	Max. 5.4VA
	AC/DC voltage CX6□-□□	AC: max. 5.5VA DC: max. 3.5W	AC: max. 5.6VA DC: max. 3.6W	AC: max. 6.2VA DC: max. 4W	AC: max. 6.3VA DC: max. 4.1W
	AC/DC voltage CX6□-□□F	AC: max. 3.6VA DC: max. 2.5W	AC: max. 4.0VA DC: max. 2.8W	AC: max. 3.9VA DC: max. 2.9W	AC: max. 4.5VA DC: max. 3.3W
Counter	Max. INA/INB counting speed CX6□-□□	Selectable among 1cps/30cps/300cps/1kcps/5kcps			
	Max. INA/INB counting speed CX6□-□□F	20cps			
	Counting range	-99999 to 999999			
	Scale	Decimal point up to fifth digit			
	Min. signal width CX6□-□□	RESET, TOTAL RESET signal: selectable among 1ms/20ms			
	Min. signal width CX6□-□□F	RESET signal: 25ms			
Timer	Time range	999.999s, 9999.99s, 99999.9s, 999999s, 99m59.99s, 999m59.9s, 9999m59s, 99999.9m, 999999m, 99h59m59s, 9999h59m, 99999.9h			
	Operation mode	Up, Down			
	Min. signal width CX6□-□□	INA, INHIBIT, RESET, TOTAL RESET signal: selectable among 1ms/20ms			
	Min. signal width CX6□-□□F	INA, INH, RESET signal: 25ms			
	Repeat error	[CX6□-□□]-In case of power ON start: max. ±0.01% ±0.05s In case of signal ON start: max. ±0.01% ±0.03s			
	Set error				
	Voltage error	[CX6□-□□F]-In case of power ON start: max. ±0.01% ±0.08s In case of signal ON start: max. ±0.01% ±0.06s			
	Temp. error				
Input method	CX6□-□□	Selectable among voltage input (PNP)/no-voltage input (NPN) [Voltage input (PNP)]-input impedance: 10.8kΩ, [H]: 5-30VDC⎓, [L]: 0-2VDC [No-voltage input (NPN)]-short-circuit impedance: max. 1kΩ, short-circuit residual voltage: max. 2VDC			
	CX6□-□□F	[Free voltage input]-INA (START) , INB (INHIBIT) input [H]: 24-240VDC⎓/24-240VAC~ 50/60Hz, [L]: 0-10VDC/VAC [No-voltage input]-RESET input, short-circuit impedance: max. 1kΩ, short-circuit residual voltage: max. 2V			
One-shot output time		0.01 to 99.99s setting			
Control output	Contact Type	SPDT (1c): 1	SPST (1a): 2	SPDT (1c): 1	SPDT (1c): 2
	Contact Capacity	Max. 250VAC~ 3A, 30VDC⎓ 3A resistive load			
	Solid state Type	—		NPN open collector: 1	NPN open collector: 2
	Solid state Capacity			Max. 30VDC⎓ 100mA	
External power supply※1		Max. 12VDC⎓ ±10%, 100mA			
Memory retention		Approx. 10 years (non-volatile memory)			
Insulation resistance		Over 100MΩ (at 500VDC megger)			
Dielectric strength		3,000VAC 50/60Hz for 1 min			
Noise immunity	AC voltage	Square-wave noise by noise simulator (pulse width 1μs) ±2kV			
	AC/DC voltage	Square-wave noise by noise simulator (pulse width 1μs) ±500V			
Vibration	Mechanical	0.75mm amplitude at frequency 10 to 55Hz (for 1 min) in each X, Y, Z direction for 1 hour			
	Malfunction	0.5mm amplitude at frequency 10 to 55Hz (for 1 min) in each X, Y, Z direction for 10 minutes			
Shock	Mechanical	300m/s² (approx. 30G) in each X, Y, Z direction for 3 times			
	Malfunction	100m/s² (approx. 10G) in each X, Y, Z direction for 3 times			
Relay life cycle	Mechanical	Min. 5,000,000 operations			
	Malfunction	Min. 100,000 operations			
Protection structure		Front part: IP50 (IEC standard)			
Environment	Ambient temp.	-10 to 55°C, storage: -25 to 65°C			
	Ambient humi.	35 to 85%RH, storage: 35 to 85%RH			
Approval		CE			
Weight※2	AC voltage CX6□-□□	Approx. 157g (approx. 112g)	Approx. 162g (approx. 117g)	Approx. 235g (approx. 170g)	Approx. 240g (approx. 175g)
	AC voltage CX6□-□□F	Approx. 155g (approx. 110g)	Approx. 160g (approx. 115g)	Approx. 233g (approx. 168g)	Approx. 238g (approx. 173g)
	AC/DC voltage CX6□-□□	Approx. 156g (approx. 111g)	Approx. 161g (approx. 116g)	Approx. 234g (approx. 169g)	Approx. 239g (approx. 174g)
	AC/DC voltage CX6□-□□F	Approx. 154g (approx. 109g)	Approx. 159g (approx. 114g)	Approx. 232g (approx. 167g)	Approx. 237g (approx. 172g)

※1: This is for the voltage input (PNP)/no-voltage input (NPN) selectable model (CX6□-□□).
※2: The weight includes packaging. The weight in parenthesis is for unit only.
※Environment resistance is rated at no freezing or condensation.
※**The above specifications are subject to change and some models may be discontinued without notice.**
※**Be sure to follow cautions written in the instruction manual, user manual and the technical descriptions (catalog, homepage).**

▣ Dimensions

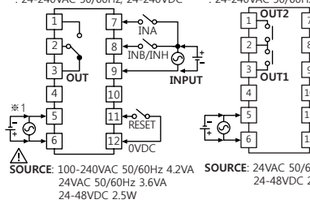
(unit: mm)

◎ **Panel cut-out**

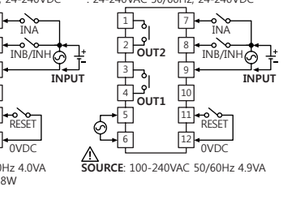


◎ **Bracket**

● **CX6S Series**

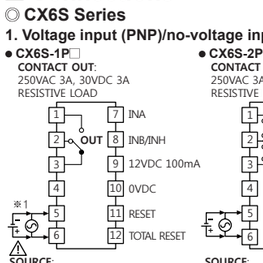


● **CX6M Series**

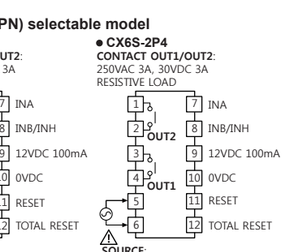


◎ **Terminal cover (sold separately)**

● **CX6S Series**
(RSA-COVER, 48×48mm)



● **CX6M Series**
(RMA-COVER, 72×72mm)



▣ Connections

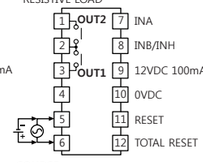
◎ CX6S Series

1. Voltage input (PNP)/no-voltage input (NPN) selectable model

● **CX6S-1P□**
CONTACT OUT:
250VAC 3A, 30VDC 3A
RESISTIVE LOAD

SOURCE:
100-240VAC 50/60Hz 6.4VA
24VAC 50/60Hz 5.5VA
24-48VDC 3.5W

● **CX6S-2P2**
CONTACT OUT1/OUT2:
250VAC 3A, 30VDC 3A
RESISTIVE LOAD



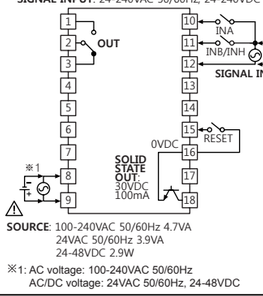
SOURCE:
24VAC 50/60Hz 5.6VA
24-48VDC 3.6W

● **CX6S-2P4**
CONTACT OUT1/OUT2:
250VAC 3A, 30VDC 3A
RESISTIVE LOAD

SOURCE:
100-240VAC 50/60Hz 6.7VA

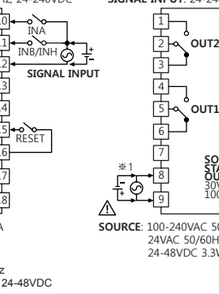
2. Free voltage input model

● **CX6S-1P□F**
CONTACT OUT
: 250VAC 3A, 30VDC 3A
RESISTIVE LOAD
SIGNAL INPUT
: 24-240VAC 50/60Hz, 24-240VDC



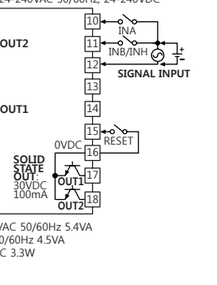
SOURCE: 100-240VAC 50/60Hz 4.2VA
24VAC 50/60Hz 3.6VA
24-48VDC 2.5W

● **CX6S-2P2F**
CONTACT OUT1/OUT2
: 250VAC 3A, 30VDC 3A
RESISTIVE LOAD
SIGNAL INPUT
: 24-240VAC 50/60Hz, 24-240VDC



SOURCE: 24VAC 50/60Hz 4.0VA
24-48VDC 2.8W

● **CX6S-2P4F**
CONTACT OUT1/OUT2
: 250VAC 3A, 30VDC 3A
RESISTIVE LOAD
SIGNAL INPUT
: 24-240VAC 50/60Hz, 24-240VDC

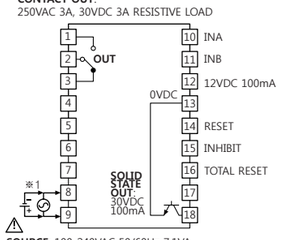


SOURCE: 100-240VAC 50/60Hz 4.9VA

◎ CX6M Series

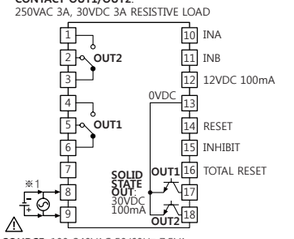
1. Voltage input (PNP)/no-voltage input (NPN) selectable model

● **CX6M-1P□**
CONTACT OUT:
250VAC 3A, 30VDC 3A RESISTIVE LOAD



SOURCE: 100-240VAC 50/60Hz 7.1VA
24VAC 50/60Hz 6.2VA
24-48VDC 4W

● **CX6M-2P□**
CONTACT OUT1/OUT2:
250VAC 3A, 30VDC 3A RESISTIVE LOAD



SOURCE: 100-240VAC 50/60Hz 7.5VA
24VAC 50/60Hz 6.3VA
24-48VDC 4.1W

2. Free voltage input model

● **CX6M-1P□F**
CONTACT OUT: 250VAC 3A, 30VDC 3A
RESISTIVE LOAD
SIGNAL INPUT: 24-240VAC 50/60Hz, 24-240VDC

SOURCE: 100-240VAC 50/60Hz 3.9VA
24VAC 50/60Hz 2.9VA
24-48VDC 2.9W

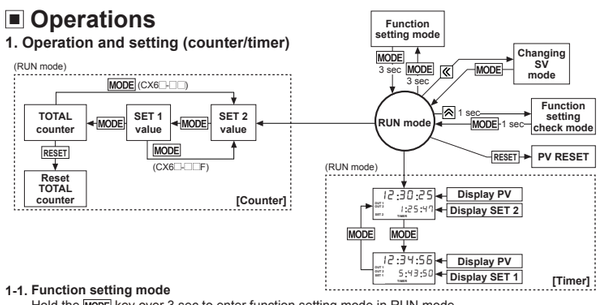
● **CX6M-2P□F**
CONTACT OUT1/OUT2: 250VAC 3A, 30VDC 3A
RESISTIVE LOAD
SIGNAL INPUT: 24-240VAC 50/60Hz, 24-240VDC

SOURCE: 100-240VAC 50/60Hz 5.4VA
24VAC 50/60Hz 4.5VA
24-48VDC 3.3W

※1: AC voltage: 100-240VAC 50/60Hz
AC/DC voltage: 24VAC 50/60Hz, 24-48VDC

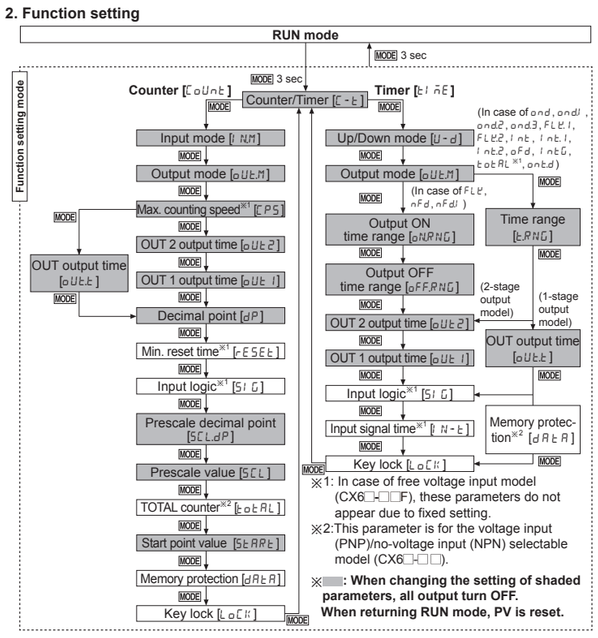
▣ Operations

1. Operation and setting (counter/timer)



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..
Hold the MODE key over 1 sec at function setting check mode and it returns to RUN mode.
1-3. RESET
In RUN mode, function setting mode, press the RESET key to reset the current value and the output turns OFF.
At TOTAL counter display mode※1, press the RESET key to reset TOTAL counter counting value and the current counting value.
※1: This is for the voltage input (PNP)/no-voltage input (NPN) selectable model (CX6□-□□).
TOTAL counter display mode is only for counter operation.

2. Function setting



※1: In case of free voltage input model (CX6□-□□F), these parameters do not appear due to fixed setting.
※2:This parameter is for the voltage input (PNP)/no-voltage input (NPN) selectable model (CX6□-□□).
※■■: **When changing the setting of shaded parameters, all output turn OFF. When returning RUN mode, PV is reset.**

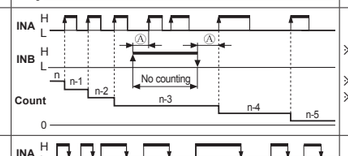
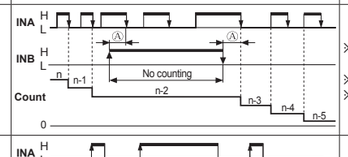
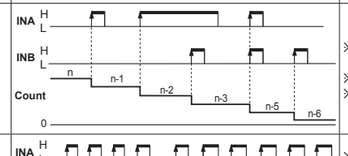
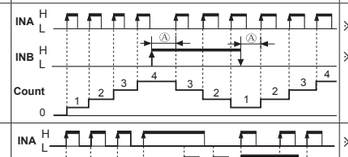
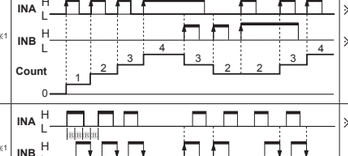
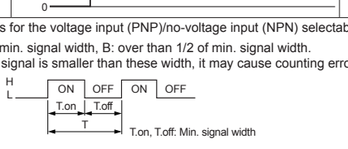
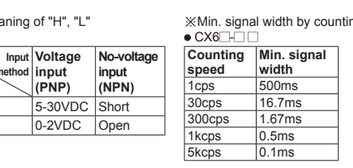
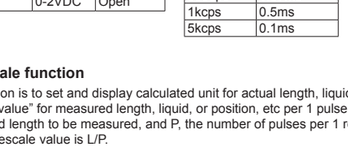
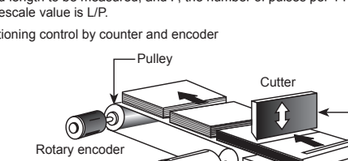
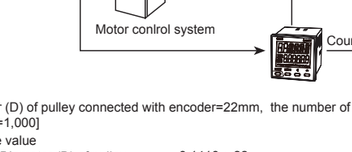
▣ Counter Mode

1. Parameter setting (MODE key: Moves parameters, 🔼 key: Changes parameter setting value)

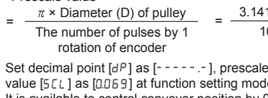
Parameter	Parameter setting value
Counter/Timer [C-t]	CoUnt ⟷ tIME　※CoUnt: Counter, tIME: Timer
Input mode [INP]	UP → UP-1 → UP-2 → UP-3 → dn → dn-1 → Ud-C※1 → Ud-b※1 → Ud-A → dn-3 → dn-2 → UP
Output mode [oUTM]	• Input mode is UP, UP-1, UP-2, UP-3 or dn, dn-1, dn-2, dn-3, F → n → C → r → H → P → 9 → A → F • Input mode is Ud-A, Ud-b※1, Ud-C※1, F → n → C → r → H → P → 9 → A → 5 → t → d → F ※If max. counting speed is 5kcps, and output mode is d, max. counting speed is automatically changed as 30cps, factory default.
Max. counting speed※2 [CPS]	30 → 300 → 1K → 5K → 1 → 30 ※Max. counting speed is when duty ratio of INA or INB 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 output time※3 [oUT2]	※Set one-shot output time of OUT 2. ※Setting range: 00.01 to 99.99 sec ※When output mode is F, n, 5, t, d, this parameter does not appear. (fixed as HOLD)
OUT 1 output time※3 [oUT1]	※Set one-shot output time of OUT 1. ※Setting range: 00.01 to 99.99 sec, Hold ※When number of tens digit is flashing, press the 🔽 key once and HoLd appears. ※When output mode is 5, t, d, this parameter does not appear. (fixed as HOLD)
OUT output time※3 [oUTt]	※Setting range: 00.01 to 99.99 sec ※When output mode is F, n, 5, t, d, this parameter does not appear. (fixed as HOLD)
Decimal point※4 [dP]	------ → -.----- → --.---- → ---.--- → ----.-- → -----.- → ------ ※Decimal point is applied to PV and SV.
Min. reset time※2 [rESEt]	1 ⟷ 20, unit: ms ※Set min. width of external reset signal input.
Input logic※2 [SIG]	nPn: No-voltage input, PnP: Voltage input
Prescale decimal point※4 [SCLdP]	-.----- → --.---- → ---.--- → ----.-- → -----.- → ------ ※Decimal point of prescale should not set smaller than decimal point [dP].
Prescale value [SCL]	※Setting range: 0.00001 to 99999.9 ※Setting range of prescale is linked with prescale decimal point [SCLdP] setting.
TOTAL counter※1 [totAL]	on ⟷ oFF
Start point value [StArt]	※Setting range of start point value is linked with decimal point [dP] setting. (0.00000 to 999999) ※When input mode is dn, dn-1, dn-2, this parameter does not appear. ※When total count function is ON, this parameter does not appear.※1
Memory protection [dAtA]	CLr ⟷ rEC　※CLr: Resets the counting value when power OFF. rEC: Maintains the counting value when power OFF. (memory protection)
Key lock [LoCK]	LoFF → LoC.1 → LoC.2 → LoC.3 → LoFF　※LoFF: Unlock keys, key lock indicator turns OFF. LoC.1: Locks RESET key, key lock indicator turns ON. LoC.2: Locks 🔽, 🔼 keys, key lock indicator turns ON. LoC.3: Locks RESET, 🔽, 🔼 keys, key lock indicator turns ON

※1: For voltage input (PNP), no-voltage input (NPN) model (CX6□-□□).
※2: For free voltage input model(CX6□-□□F), these parameters do not appear due to fixed setting.
※3: For 1-stage setting model (CX6□-1P□□), oUt 1 does not appear.
The oUt2 output time is displayed as oUtt.
※4: Decimal point and prescale decimal point
-Decimal point: Set the decimal point for display value regardless of prescale value.
-Prescale decimal point
: Set the decimal point for prescale value of counting value regardless of display value.

2. Input mode

Input mode	Counting chart	Operation
Up [UP]		※When INA is counting input, INB is no counting input. When INB is counting input, INA is no counting input.
Up-1 [UP-1]		※When INA input signal is rising (↑), it counts. ※INA: Counting input ※INB: No counting input
Up-2 [UP-2]		※When INA input signal is falling (↓), it counts. ※INA: Counting input ※INB: No counting input
Up-3 [UP-3]		※When INA or INB input signal is rising (↑), it counts. ※INA: Counting input ※INB: Counting input
Down [dn]		※When INA is counting input, INB is no counting input. When INB is counting input, INA is no counting input.
Down-1 [dn-1]		※When INA input signal is rising (↑), it counts. ※INA: Counting input ※INB: No counting input
Down-2 [dn-2]		※When INA input signal is falling (↓), it counts. ※INA: Counting input ※INB: No counting input
Down-3 [dn-3]		※When INA or INB input signal is rising (↑), it counts. ※INA: Counting input ※INB: Counting input
Up/Down-A [Ud-A]		※INA: Counting input INB: Counting command input ※When INB is "L", counting command is up. When INB is "H", counting command is down.
Up/Down-B※1 [Ud-b]		※INA: Up counting input INB: Down counting input ※When INA and INB input signals are rising (↑) at the same time, it maintains previous counting value.
Up/Down-C※1 [Ud-C]		※When connecting encoder output A, B phase with counter input, INA, INB, set input mode [INP] as phase different input [Ud-C] for counter operation.

※1: This is for the voltage input (PNP)/no-voltage input (NPN) selectable model (CX6□-□□).
※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 (±1).



※The meaning of "H", "L"

Input method / Character	Voltage input (PNP)	No-voltage input (NPN)
H	5-30VDC	Short
L	0-2VDC	Open

※Min. signal width by counting speed

● CX6□-□□

Counting speed	Min. signal width
1cps	500ms
30cps	16.7ms
300cps	1.67ms
1kcps	0.5ms
5kcps	0.1ms

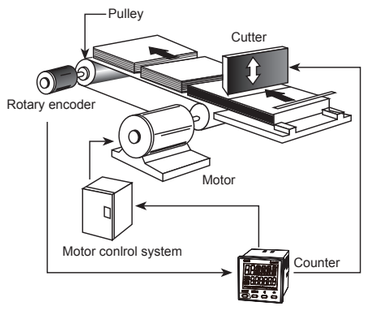
● CX6□-□□F

Counting speed	Min. signal width
20cps	25ms

3. Prescale function

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.

E.g.) Positioning control by counter and encoder



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

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

Set decimal point [dP] as [-.----], prescale decimal point [SCLdP] as [---.---], and prescale value [SCL] as [0069] at function setting mode.
It is available to control conveyor position by 0.1mm unit.

▣ Timer Mode

1. Parameter setting (MODE key: Moves parameters, 🔼 key: Changes parameter setting value)

Parameter	Parameter setting value
Counter/Timer [C-t]	CoUnt ⟷ tIME　※CoUnt: Counter, tIME: Timer
Up/Down mode [U-d]	UP ⟷ dn ※UP: Time progresses from '0' to the setting time. dn: Time progresses from the setting time to '0'.
Output mode [oUTM]	ond → ond.1 → ond2 → ond3 → FLK → FLK.1 → FLK2 → Int → ontd → totAL※1 → IntG → nFd.1 → nFd → oFd → Int2※2 → Int.1
Time range [trnG]※3	999.999 → 9999.99 → 99999.9 → 999999 → 99:59.99 → 999:59.9
output ON TIME range [oNrnG]※4, output OFF TIME range [oFFrnG]※4	99999.9 → 9999:59 → 99:59:59 → 999999 → 99999.9 → 9999:59
OUT 2 output time※5 [oUT2]	※Set one-shot output time of OUT 2. ※Setting range: 00.01 to 99.99 sec, Hold ※When number of tens digit is flashing, press the 🔽 key once and HoLd appears.
OUT 1 output time※5 [oUT1]	※Set one-shot output time of OUT 1. ※Setting range: 00.01 to 99.99 sec, Hold ※When number of tens digit is flashing, press the 🔽 key once and HoLd appears.
OUT output time※5 [oUTt]	※Setting range: 00.01 to 99.99 sec, Hold ※When number of tens digit is flashing, press the 🔽 key once and HoLd appears.
Input logic※6 [SIG]	nPn: No-voltage input, PnP: Voltage input
Input signal time※6 [IN-t]	1 ⟷ 20, unit: ms ※Set min. width of INA, INHIBIT, RESET, TOTAL RESET signal
Memory protection [dAtA]	CLr ⟷ rEC ※CLr: Resets the counting value when power OFF. rEC: Maintains the counting value when power OFF. (memory protection)
Key lock [LoCK]	LoFF → LoC.1 → LoC.2 → LoC.3 → LoFF　※LoFF: Unlock keys, key lock indicator turns OFF. LoC.1: Locks RESET key, key lock indicator turns ON. LoC.2: Locks 🔽, 🔼 keys, key lock indicator turns ON. LoC.3: Locks RESET, 🔽, 🔼 keys, key lock indicator turns ON

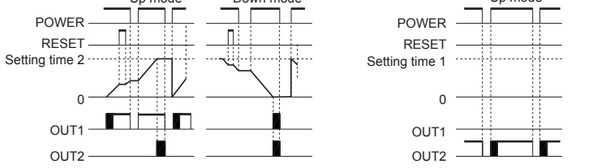
※1: This is for the voltage input (PNP)/no-voltage input (NPN) selectable model (CX6□-□□).
※2: This is for the voltage input (PNP)/no-voltage input (NPN) selectable model (CX6□-□□).
※3: When output mode is ond, ond.1, ond2, ond3, FLK.1, FLK2, Int, Int.1, Int2, oFd, IntG, totAL, ontd, set time range [trnG].
※4: When output mode is FLK, nFd, nFd.1, set output ON TIME range [oNrnG] and output OFF TIME range [oFFrnG].
※5: In case of 1-stage setting model (CX6□-1P□□), oUt 1 output time does not appear.
oUt2 output time is displayed as oUtt.
※6: In case of free voltage input model (CX6□-□□F), this parameter does not appear due to fixed setting.

2. Timer '0' time setting
One-shot output (0.01 to 99.99 sec) / Retained output

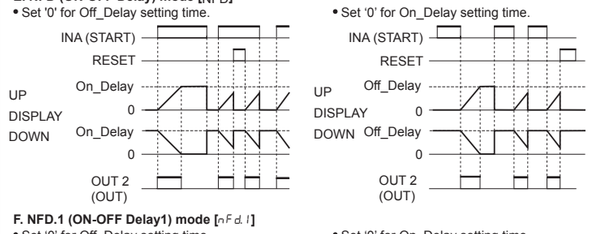
2-1. Timer output mode for '0' time setting [ond, ond.1, ond2, ond.3, nFd, nFd.1]

2-2. Operations by output mode ('0' time setting)

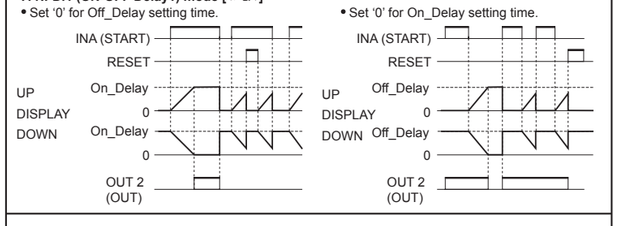
A. OND (Signal ON Delay) mode [ond]



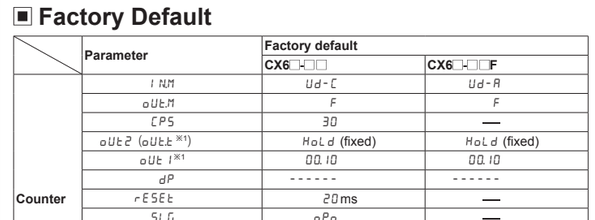
B. OND.1 (Signal ON Delay 1) mode [ond.1]



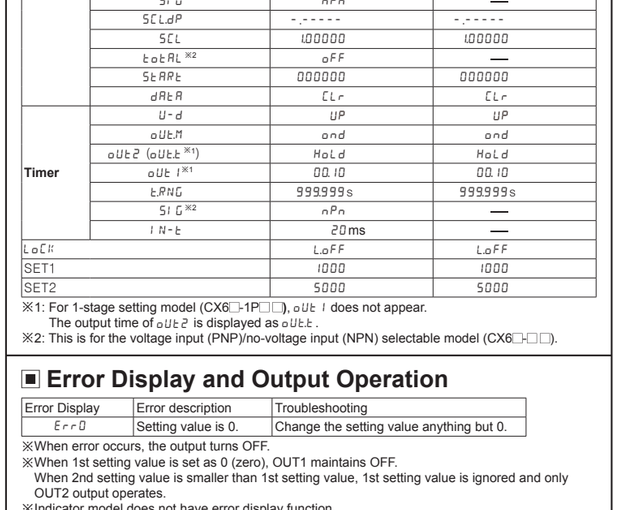
C. OND.2 (Power ON Delay) mode [ond2]



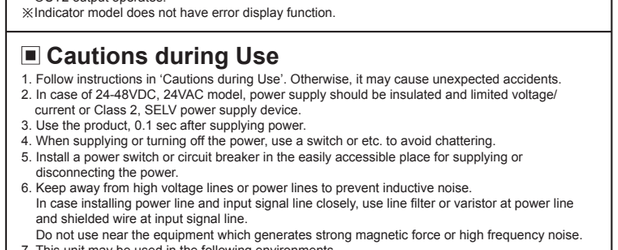
D. OND.3 (Power ON Delay) mode [ond3]



E. NFD (ON-OFF Delay) mode [NFD]



F. NFD.1 (ON-OFF Delay1) mode [nFd.1]



▣ Factory Default

	Parameter	Factory default CX6□-□□	Factory default CX6□-□□F
Counter	INP	Ud-C	Ud-A
	oUTM	F	F
	CPS	30	—
	oUT2 (oUTt※1)	HoLd (fixed)	HoLd (fixed)
	oUT1※1	00.00	00.00
	dP	------	------
	rESEt	20ms	—