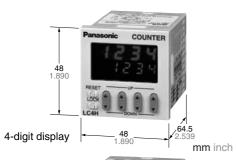
# Panasonic ideas for life

#### DIN 48 SIZE LCD ELECTRONIC COUNTER

# LC4H/-L Counters

# **LC4H Counters**









Pin type

Screw terminal type

RoHS Directive compatibility information http://www.nais-e.com/

#### UL File No.: E122222 C-UL File No.: E122222

#### **Features**

1. Bright and Easy-to-Read Display
A brand new bright 2-color backlight LCD display. The easy-to-read screen in any

display. The easy-to-read screen in any location makes checking and setting procedures a cinch.

#### 2. Simple Operation

Seesaw buttons make operating the unit even easier than before.

3. Short Body of only 64.5 mm 2.539 inch (screw type) or 70.1 mm 2.760 inch (pin type)

With a short body, it easily installs in even narrow control panels.

# 4. Conforms to IP66's Weather Resistant Standards

The water-proof panel keeps out water and dirt for reliable operation even in poor environments.

# c**All**us ( E

# 5. Screw terminal and Pin Type are Both Standard Options

The two terminal types are standard options to support either front panel installation or embedded installation.

### 6. Changeable Panel Cover

Also offers a black panel cover to meet your design considerations.

#### 7. 4-digit or 6-digit display

Two sizes of displays are offered for you to choose the one that suits your needs.

8. Compliant with UL, c-UL and CE.

## **Product types**

Part number	Terminal type	Power down insurance	Operating voltage	Output	Output mode	Count speed	Digit
C4H8-R4-AC240V	8 pins		- presuming resumge		Софина	осын оросы	g
C4H-R4-AC240V	11 pins		100 to 240 V AC				
C4H-R4-AC240VS	Screw terminal		100 10 2 10 17 10				
C4H8-R4-AC24V	8 pins						
C4H-R4-AC24V	11 pins		24 V AC	Relay			
C4H-R4-AC24VS	Screw terminal			(1c)			
C4H8-R4-DC24V	8 pins						
C4H-R4-DC24V	11 pins		12 to 24 V DC				
C4H-R4-DC24VS	Screw terminal						4
C4H8-T4-AC240V	8 pins						4
C4H-T4-AC240V	11 pins		100 to 240 V AC				
C4H-T4-AC240VS	Screw terminal			(Kcps) • One shot/over	• Maintain		
C4H8-T4-AC24V	8 pins		24 V AC			30 Hz (cps)/	
C4H-T4-AC24V	11 pins				Maintain     output/over count I		
C4H-T4-AC24VS	Screw terminal	Available					
C4H8-T4-DC24V	8 pins						
C4H-T4-DC24V	11 pins		12 to 24 V DC		30 Hz (cps)/ 5 KHz (Kcps) switchable		
C4H-T4-DC24VS	Screw terminal						
C4H8-R6-AC240V	8 pins		100 to 240 V AC		count		
C4H-R6-AC240V	11 pins				One shot/recount I	o mionabio	
C4H-R6-AC240VS	Screw terminal				One shot/recount II		
C4H8-R6-AC24V	8 pins		24 V AC	Relay	One shot/hold		
C4H-R6-AC24V	11 pins			(1c)	count		
C4H-R6-AC24VS	Screw terminal			(10)	(7 modes)		
C4H8-R6-DC24V	8 pins		40. 04.4.00		(5400)		
C4H-R6-DC24V	11 pins		12 to 24 V DC				
C4H-R6-DC24VS							6
C4H8-T6-AC240V			100 +- 040 \/ 40			5 KHz (Kcps)	
C4H-T6-AC240V			100 to 240 V AC				
C4H-T6-AC240VS							
C4H8-T6-AC24V C4H-T6-AC24V			24 \/ \C	Transistor			
C4H-T6-AC24V			24 V AC	(1a)			
C4H8-T6-DC24V							
C4H-T6-DC24V			12 to 24 V DC				
C4H-T6-DC24V			12 10 24 V DC				
	Screw terminal 8 pins 11 pins Screw terminal		100 to 240 V AC 24 V AC 12 to 24 V DC				6

<sup>\*</sup> A rubber gasket (ATC18002) and a mounting frame (AT8-DA4) are included.

# **LC4H-L Counters**



AEL11 Series (4-digit display)



AEL13 Series (6-digit display)





in type

Screw terminal type

#### UL File No.: E122222 C-UL File No.: E122222

### **Features**

1. Low Price

All this at an affordable price to provide you with unmatched cost performance.

- 2. Display is a bright reflective-type LCD.
- 3. Inherits all of the characteristics of the LC4H digital timer.
- Seesaw switches ensure easy operation.
- IP66 environmental protection.
- Shortened body (pin type: 70.1 mm 2.760 inch, screw type: 64.5 mm 2.539 inch underhead).
- 4. Compliant with UL, c-UL and CE.

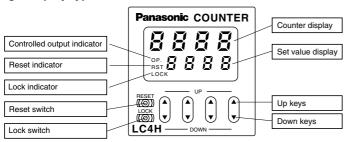
### **Product types**

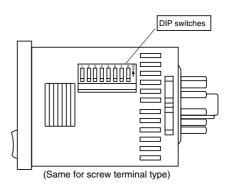
Digit	Count speed	Output mode	Output	Operating voltage	Power down insurance	Terminal type	Part number						
						8 pins	LC4HL8-R4-AC240V						
				100 to 240 V AC		11 pins	LC4HL-R4-AC240V						
						Screw terminal	LC4HL-R4-AC240VS						
			Dalan		1	8 pins	LC4HL8-R4-AC24V						
			Relay	24 V AC/DC		11 pins	LC4HL-R4-AC24V						
			(1c)			Screw terminal	LC4HL-R4-AC24VS						
						8 pins	LC4HL8-R4-DC24V						
				12 to 24 V DC		11 pins	LC4HL-R4-DC24V						
4						Screw terminal	LC4HL-R4-DC24VS						
4						8 pins	LC4HL8-T4-AC240V						
				100 to 240 V AC		11 pins	LC4HL-T4-AC240V						
		Maintain				Screw terminal	LC4HL-T4-AC240VS						
		output/hold count	Transistor			8 pins	LC4HL8-T4-AC24V						
		Maintain	(1a)	24 V AC/DC		11 pins	LC4HL-T4-AC24V						
		output/over count I	12 to 24 V DC	(1α)	(1α)	(1α)	(1α)	(14)	(1α)			Screw terminal	LC4HL-T4-AC24VS
		Maintain				8 pins 11 pins	LC4HL8-T4-DC24V						
	30 Hz (cns)/	output/over count II		12 to 24 V DC	24 V DC		LC4HL-T4-DC24V						
		One shot/over			Available	Screw terminal	LC4HL-T4-DC24VS						
		count			Available	8 pins	LC4HL8-R6-AC240V						
	30 Hz (cps)/ 5 KHz (Kcps) switchable	One shot/recount I		100 to 240 V AC		11 pins	LC4HL-R6-AC240V						
		One shot/recount II				Screw terminal	LC4HL-R6-AC240VS						
		One shot/hold	Relay	24 V AC/DC		8 pins	LC4HL8-R6-AC24V						
		count (7 modes)	(1c)			11 pins	LC4HL-R6-AC24V						
					1	Screw terminal	LC4HL-R6-AC24VS						
						8 pins	LC4HL8-R6-DC24V						
				12 to 24 V DC		11 pins	LC4HL-R6-DC24V						
6						Screw terminal	LC4HL-R6-DC24VS						
_						8 pins	LC4HL8-T6-AC240V						
				100 to 240 V AC		11 pins	LC4HL-T6-AC240V						
						Screw terminal	LC4HL-T6-AC240VS						
			Transistor	041440/00		8 pins	LC4HL8-T6-AC24V						
			(1a)	24 V AC/DC		11 pins	LC4HL-T6-AC24V						
			` '		-	Screw terminal	LC4HL-T6-AC24VS						
				10 to 04 \/ DC		8 pins	LC4HL8-T6-DC24V						
				12 to 24 V DC		11 pins	LC4HL-T6-DC24V						
						Screw terminal	LC4HL-T6-DC24VS						

 $<sup>^{\</sup>star}$  A rubber gasket (ATC18002) and a mounting frame (AT8-DA4) are included.

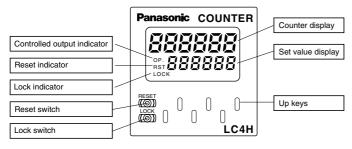
#### Part names

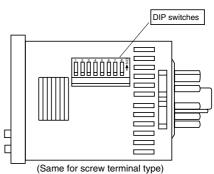
#### • 4-digit display type





#### • 6-digit display type





# **Specifications**

Protective construction

	Itam		Ralay out	put type	Transistor	output type		
	Item		AC type	AC type DC type		DC type		
	Rated operat	ting voltage	100 to 240 V AC, 24 V AC	12 to 24 V DC	100 to 240 V AC, 24 V AC	12 to 24 V DC		
	Rated frequency		50/60 Hz common	_	50/60 Hz common	_		
	Rated power	consumption	Max. 10 V A	Max. 3 W	Max. 10 V A	Max. 3 W		
	Rated control capacity		5 A 250 V AC (	resistive load)	100 mA	30 V DC		
Rating -	Input mode		Addition (UP)/Subtraction (DOWN)/Direction (DIR)/Individuality (IND)/Phase (PHASE) 5 modes selectable by DIP switch					
	Max. countin	g speed		30 Hz/5 kHz (selec	table by DIP switch)			
	Counting inp	ut (Input 1, 2)	Min. input	signal width: 16.7 ms at 30 Hz	/0.1 ms at 5 kHz, ON time: OFF	time = 1:1		
	Reset input			Min. input signal width: 1 ms,	20 ms (selected by DIP switch)			
	Lock input			Min. input sign	al width: 20 ms			
	Input signal				e: 1 k $\Omega$ or less, Input residual volte, Max. energized voltage: 40 V E			
	Output mode	)	HOLD-A/HOLD-B/	HOLD-C/SHOT-A/SHOT-B/SH	OT-C/SHOT-D (7 modes selectal	ble by DIP switch)		
	One shot out	tput time		Appro	ox. 1 s			
	Indication		7-segment L	CD, Counter value (backlight re	d LED), Setting value (backlight	yellow LED)		
	Digit		4-digit display type –999 to 9999 (–3 digits to +4 digits) (0 to 9999 for setting) 6-digit display type –99999 to 999999 (–5 digits to 6 digits) (0 to 999999 for setting)					
	Memory		EEP-ROM (Overwriting times: 10 <sup>s</sup> ope. or more)					
	Contact arrangement		1 For	m C	1 Form A (Open collector)			
Contact	Initial contact resistance		100 mΩ (at 1	A 6 V DC)	_			
	Contact material		Ag alloy/	Au flush	_			
_ife	Mechanical (	contact)	$2 \times 10^7$ ope. (Except for	switch operation parts)	_			
_IIE	Electrical (co	ntact)	10 <sup>5</sup> ope. (At rated	control voltage)	10 <sup>7</sup> ope. (At rated	d control voltage)		
	Allowable opera	ting voltage range	85 to 110 % of rated operating voltage					
Electrical	Break down voltage (Initial value)		Between live and dead metal parts: Between input and outpu Between open contacts	it: 2,000 Vrms for 1 min	Between live and dead metal parts: 2,000 Vrms for 1 min (11- Between input and output: 2,000 V AC for 1 mir			
Electrical	Insulation res (At 500 V DC value)		Between live and dead metal pa Between input and o Between open conf	utput: Min. 100 MΩ	Between live and dead metal parts: Min. 100 M $\Omega$ (11-p Between input and output: Min. 100 M $\Omega$			
	Temperature	rise	Max. 65° C (under the flow of nominal operating current at nominal voltage)					
	Vibration	Functional	10 to 55 Hz (1 cycle/min), single amplitude: 0.35 mm (10 min on 3 axes)					
Acchanical	resistance	Destructive	10	to 55 Hz (1 cycle/min), single a	mplitude: 0.75 mm (1 h on 3 axe	es)		
/lechanical	Shock	Functional		Min. 98 m 321.522 ft.	/s² (4 times on 3 axes)			
	resistance	Destructive		Min. 294 m 964.567 ft./s² (5 times on 3 axes)				
	Ambient tem	perature		-10° C to 55° C	+14° F to +131° F			
Operating	Ambient hum	nidity		Max. 85 % RH (	non-condensing)			
conditions	Air pressure			860 to 1,	060 h Pa			
	Ripple rate			20 % or less		20 % or less		
Connection				8-pin/11-pin/s	screw terminal			
n:				IDOO /f	201			

IP66 (front panel with a rubber gasket)

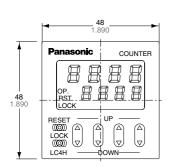
# **Applicable standard**

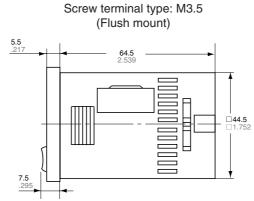
Safety standard	EN61812-1	Pollution Degree 2/Overvoltage Category II					
	(EMI)EN61000-6-4						
	Radiation interference electric field strength	EN55011 Group1 ClassA					
	Noise terminal voltage	EN55011 Group1 ClassA					
	(EMS)EN61000-6-2						
	Static discharge immunity	EN61000-4-2 4 kV contact					
		8 kV air					
	RF electromagnetic field immunity	EN61000-4-3 10 V/m AM modulation (80 MHz to 1 GHz)					
	, ,	10 V/m pulse modulation (895 MHz to 905 MHz)					
EMC	EFT/B immunity	EN61000-4-4 2 kV (power supply line)					
		1 kV (signal line)					
	Surge immunity	EN61000-4-5 1 kV (power line)					
	Conductivity noise immunity	EN61000-4-6 10 V/m AM modulation (0.15 MHz to 80 MHz)					
	Power frequency magnetic field immunity	EN61000-4-8 30 A/m (50 Hz)					
	Voltage dip/Instantaneous stop/Voltage fluctuation immunity	EN61000-4-11 10 ms, 30% (rated voltage)					
		100 ms, 60% (rated voltage)					
		1,000 ms, 60% (rated voltage)					
		5,000 ms, 95% (rated voltage)					

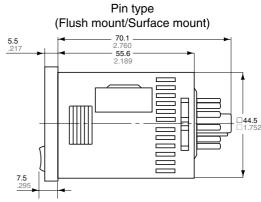
### **Dimensions**

• 4-digit display type

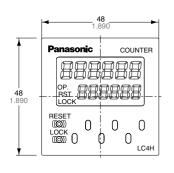
 $$\operatorname{\textsc{mm}}$  inch General tolerance:  $\pm 1.0 \pm .039$ 

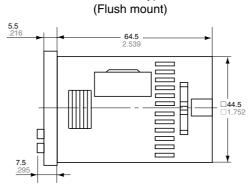




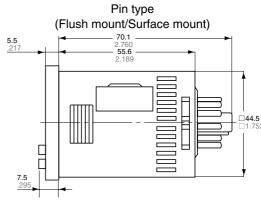


#### • 6-digit display type





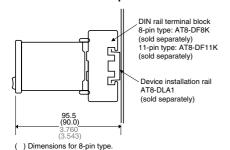
Screw terminal type: M3.5



### • Dimensions for flush mounting (with adapter installed)

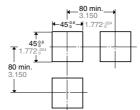
Screw terminal type: M3.5 Pin type Rubber gasket ATC18002 (supplied Rubber gasket Mounting frame for flush mount AT8-DA4 (supplied) 8-pin type (8p cap AD8-RC sold separately) Mounting frame ATC18002 (supplied for flush mount AT8-DA4 (supplied) 11-pin type (11p cap AT8-DP11 sold separately) COUNTER COUNTER 田田田 Ħ Ħ BBBBBB BBBB ##### 48 □44.5 48 50 RESET ((0)) LOCK ((0)) LC4H 0 0 0 L<u>C4H</u> COCK O þ **48** 63.5 .48\_ 890

#### . Dimensions for front panel installations

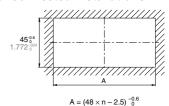


#### • Installation panel cut-out dimensions

The standard panel cut-out dimensions are shown below. Use the mounting frame (AT8-DA4) and rubber gasket (ATC18002)



#### · For connected installations



Note 1: The installation panel thickness should be between 1 and 5 mm .039 and .197 inch.

Note 2: For connected installations, the waterproofing ability between the unit and installation panel is lost.

### **Terminal layouts and Wiring diagrams**

3<sup>4</sup>5

Input 2-

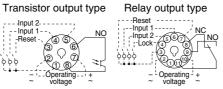
• 8-pin type

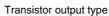
Relay output type

3 6 2 7 1 8

--Input 2--------Input 1---Reset 4 5

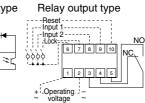
#### • 11-pin type





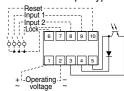
Ω 3 () ( (1)

Operating-i + voltage ~



Screw terminal type

Transistor output type



Note) For connecting the output leads of the transistor output type, refer to 5) Transistor output on page 141.

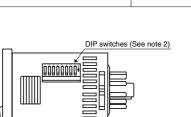
### Setting the operation mode and set value

Setting procedure 1) Setting the operation mode (input mode and output mode)

Set the input and output modes with the DIP switches on the side of the counter.

#### **DIP** switches

	ltem	DIP switch			
	item	OFF ON			
1					
2	Output mode	Refer to	table 1		
3					
4	Minimum reset input signal width	20 ms	1 ms		
5	Maximum counter speed	30 Hz	5 kHz		
6					
7	Input mode	Refer to	table 2		
8					



(Same for 6-digit and screw terminal types)

Table 1: Setting the output mode

	DI	P switch N	۱o.	Output mode
	1	2	3	Output mode
	ON	ON	ON	SHOT-A
H	OFF	OFF	OFF	SHOT-B
	ON	OFF	OFF	SHOT-C
	OFF	ON	OFF	SHOT-D
	ON	ON	OFF	HOLD-A
	OFF	OFF	ON	HOLD-B
I	ON	OFF	ON	HOLD-C
ĺ	OFF	ON	ON	— (See note 1)

Table 2: Setting the input mode

DI	P switch N	No.	Input mode
6	7	8	input mode
ON	ON	ON	Addition input
OFF	OFF	OFF	Subtraction input
ON	OFF	OFF	Directive input
OFF	ON	Independent input	
ON	ON	OFF	Phase input
OFF	OFF	ON	— (See note 1)
ON	OFF	ON	— (See note 1)
OFF	ON	ON	— (See note 1)

Notes:1) The counter and set value displays will display DIP Err.

- 2) Set the DIP switches before installing the counter on the panel.
  3) When the DIP SW setting is changed, turn off the power once.
  4) The DIP switches are set as ON before shipping.

#### Setting procedure 2) Setting the set value

Set the set value with the UP and DOWN keys on the front of the counter.

#### Front display section

#### • 4-digit display type

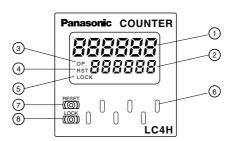
- 1 Counter display
- (2) Set value display
- 3 Controlled output indicator
- (4) Reset indicator
- (5) Lock indicator
- 6 UP keys

Changes the corresponding digit of the set value in the addition direction (upwards).

#### • 6-digit display type

- 1 Counter display
- (2) Set value display
- 3 Controlled output indicator
- 4 Reset indicator
- (5) Lock indicator

**Panasonic COUNTER** (1) 3 (2) 888 4 (5) 6 (7)- (GO) 🔻 LC4H



#### · Changing the set value

### 1. It is possible to change the set value with the up and down keys (4digit type only) even during counting. However, be aware of the following

1) If the set value is changed to less than the count value with counting set to the addition direction, counting will continue until it reaches full scale (9999 with the 4-digit type and 999999 with the 6-digit type), returns to zero, and then reaches the new set value. If the set value is changed to a value above the count value, counting will continue until the count value reaches the new set value.

- 2) Suppose that the counter is preset to count down. Whether a preset countdown value is smaller or larger than the count value, the counter counts down to "0(Zero)"
- 2. If the set value is changed to "0," the unit will not complete count-up. It starts counting up when the counting value comes to "0 (Zero)" again.
- 1) Up-count (addition) input when counting is set to the addition direction, counting will continue until full scale is reached (9999 with the 4-digit type and 999999 with the 6-digit type), return to zero, and then complete count-up.

#### (7) DOWN keys

Changes the corresponding digit of the set value in the subtraction direction (downwards).

- (8) RESET switch Resets the counting value and the output.
- 9 LOCK switch Locks the operation of all keys on the counter.

#### 6 UP keys

Changes the corresponding digit of the set value in the addition direction (upwards).

#### 7 RESET switch

Resets the counting value and the output.

- (8) LOCK switch Locks the operation of all keys on the counter.
- 2) Down-count (subtraction) input when counting is set to the subtraction direction, counting will continue until full scale is reached (-999 with the 4-digit type and -99999 with the 6-digit type), and then the display will change to - - - with the 4-digit type and ---- with the 6-digit type. The counting value does not become "0" and so the counter does not count up.
- 3) For directive, independent, and phase input, when the counting value increases or decreases from the value "0" and then returns back to the value "0," count-up is completed.

# Operation modes 1. Input mode

For the input mode, you can choose one of the following five modes

 Addition UP • Subtraction DOWN • Directive DIR • Independent IND • Phase PHASE

Input mode	Operation	*Minimum input signal width 30 Hz: 16.7 ms; 5 kHz: 0.1 ms
Addition UP	IN1 or IN2 works as an input block (gate) for the other input.	• Example where IN1 is the count counting and IN2 is the input block (gate).  IN1  H  A A A A A A  Blocked  Counting (addition)  0 1 2 3 n-3 n-2 n-1 n  Counting (subtraction)  Reset  A Counting (subtraction)
Subtraction DOWN		• Example where IN2 is the counting input and IN1 is the input block (gate).  IN1  H Blocked  O 1 2 3 4 n-1 n Counting (addition)  Counting (subtraction)  Reset  * "A" must be more than the minimum input signal width.
Directive DIR	IN1 is the counting input and IN2 is the addition or subtraction directive input. IN2 adds at L level and subtracts at H level.	IN1  IN2  Counting  Addition  Additi
Independent IND	IN1 is addition input and IN2 is subtraction input.	* IN1 and IN2 are completely independent, so there is no restriction on signal timing.
Phase PHASE	Addition when the IN1 phase advances beyond IN2, and subtraction when the IN2 phase advances beyond IN1.	* "B" must be more than the minimum input signal width.

# LC4H/-L

#### 2. Output mode

For the output mode, you can choose one of the following seven modes

Maintain output/hold count
 Maintain output/over count I
 Maintain output/over count II
 One shot/over count
 One shot/recount I
 SHOT-B

• One shot/recount II SHOT-C

• One shot/hold count SHOT-D

One shot/hol	d count SHOT-D									
Output mode	Operation	(Example when input mode is either addition or subtraction)								
	Output control is maintained after count-up completion and until resetting.	Counting (addition)		n-3	n-2	n-1		n		]
Maintain output	During that time, the count display does	Counting (subtraction)		3	2	1		0		]
Hold count HOLD-A	not change from that at count-up completion.	Counting able/unable	•	Able	•		  -	Unable		
[TOLD A]		Output control	OFF				ION			
		* n: Set value	<u></u>							
	Output control is maintained after count-up completion and until resetting.	Counting (addition)		n-2	n-1	n	n+1	n+2		]
Maintain output	However, counting is possible despite	Counting (subtraction)		2	1	0	-1	-2		]
Over count I HOLD-B	completion of count-up.	Counting able/unable	•	'	•	l Able		'		-
[TOLD-B]		Output control	OFF			ON				
		* n: Set value	011							
	Output control is maintained after				1			I		
	count-up completion and until the next	Counting (addition)		n-2	n-1	n	n+1	n+2		]
Maintain output Over count II	signal enters. However, counting is possible despite completion of count-	Counting (subtraction)		2	1	0	-1	-2		
HOLD-C	up.	Counting able/unable	•			Able	i			<b>-</b>
		Output control	OFF			ION	i OFF			_
		* n: Set value								
	Output control is maintained after count-up completion for a fixed time (approx. 1 sec). Counting is possible despite completion of count-up.	Counting (addition)		n-2	n-1	n	n+1	n+2		]
One shot Over count		Counting (subtraction)		2	1	0	-1	-2		]
SHOT-A		Counting able/unable	•			Able		 		-
3.73.77.		Output control OFF				ON	OFF			_
		* n: Set value				Appr	ox. 1s			
	Output control is maintained after count-up completion for a fixed time	Counting (addition)		n-2	n-1	0	1	2		]
One shot	(approx. 1 sec). Counting is possible despite completion of count-up.	Counting (subtraction)		2	1	n	n-1	n-2		
Recount I SHOT-B	However, reset occurs simultaneous	Counting able/unable	_		Z	Reset (a	automatic)			
31101-6	with completion of count-up. While out- put is being maintained, restarting of	, and the second	<b>◆</b> OFF			iON		10FF	-	-
	the count is not possible	Output control * n: Set value	<u> </u>			Appr	ox. 1s			-
	Output control is maintained after	Counting (addition)		n-1	n	n+1	0	1		1
	count-up completion for a fixed time			l	I			<u> </u>		ا ا
One shot Recount II	(approx. 1 sec). Counting is possible despite completion of count-up.	Counting (subtraction)		1	0	-1	n AReset (a	n-1 automatic)		]
SHOT-C	However, reset occurs simultaneous	Counting able/unable	-			Able	<u> </u>			<b>-</b>
	with output OFF.	Output control	OFF OFF							_
		* n: Set value			Appr	ox. 1s				
	Output control is maintained after count-up completion for a fixed time	Counting (addition)		n-1		n	0	1		]
One shot	(approx. 1 sec). During that time, the	Counting (subtraction)		1		0	n	n-1		]
Hold count SHOT-D	count display does not change from that at count-up completion. Reset	Counting able/unable	Able	<u></u>	I I Una	able _	Reset (a	automatic) Able		
31101-0	occurs simultaneous with output OFF.		OFF		ION		OFF			_
		Output control * n: Set value	<u></u>		Appro	ox. 1s				-
		and © CODVEIGHT			<b>∀</b>	· · · ·	_			

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