



4-digit type



6-digit type





11 pin type

Product types

Screw terminal type

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

# ELECTRONIC COUNTER (with pre-scaling function)

#### 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 location makes checking and setting pro-

#### cedures a cinch. 2. Easy to use, simple operation,

- simple settings
  Operation modes (input/output modes) can be set easily, using DIP switches
- on the side panel. • Values can be set easily, using key

#### switches on the front panel. 3. Pre-scaling function provided

A pre-scaling function enables conversion of lengths and volumes to any desired values, and displays the results.

#### 4. Built-in power supply for highcapacitance sensor

An internal power supply drives a 12 VDC, 100 mA high-capacitance sensor. (AC power supply types only)

Photoelectric switches, proximity switches and encoders can be directly connect-

#### ed. 5. Dual-path AC sensor can be connected.



#### 6. Basic insulation between the power supply and the input terminal (only for the sensor type model with power supply)

LC4H-S

There is no need for caution when connecting between terminals.

## 7. Conforms to IP66's Weather Resistant Standards

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

#### 8. 4-digit or 6-digit display

Two sizes of displays are offered for you to choose the one that suits your needs. 9. 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.

## 10. Compliant with UL, c-UL and CE. 11. Low Price

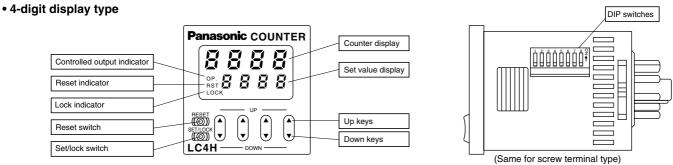
All this at an affordable price to provide you with unmatched cost performance.

Digit	Count speed	Operation mode	Output	Operation voltage	Power for sensor	Terminal	Part No.
				100 1- 010 1/ 10	10 1/ 00 100-	11 pins	LC4H-PS-R4-AC240V
				100 to 240 V AC	12 V DC 100mA	Screw terminal	LC4H-PS-R4-AC240VS
4			Relay	12 to 24 V DC	None	11 pins	LC4H-S-R4-24V
4		Maintain output/hold count		/24 V AC	None	Screw terminal	LC4H-S-R4-24VS
		Maintain output/over count I	Transister	12 to 24 V DC	None	11 pins	LC4H-S-T4-24V
	30 Hz/5 KHz	<ul> <li>Maintain output/over count II</li> <li>One shot/over count</li> </ul>	Transistor	/24 V AC	None	Screw terminal	LC4H-S-T4-24VS
	switchable	<ul> <li>One shot/recount I</li> <li>One shot/recount II</li> </ul>		100 to 24 V AC	12 V DC 100mA	11 pins	LC4H-PS-R6-AC240V
		One shot/hold count	Delay	100 to 24 V AC	12 V DC TOOMA	Screw terminal	LC4H-PS-R6-AC240VS
6		(7 modes)	Relay	12 to 24 V DC	None	11 pins	LC4H-S-R6-24V
0				/24 V AC	None	Screw terminal	LC4H-S-R6-24VS
				12 to 24 V DC	None	11 pins	LC4H-S-T6-24V
			Transistor	/24 V AC	NONE	Screw terminal	LC4H-S-T6-24VS

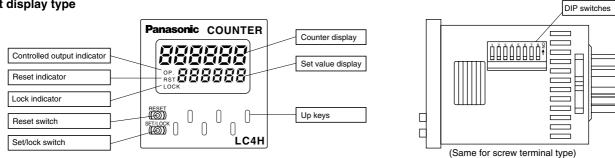
Notes) 1. Rubber packing (ATC18002) and an mounting frame (AT8-DA4) are included.

2. 100 to 240 VAC Tr outputs (11-pin terminal, screw-tightening terminal) types are also supported.

## Part names



#### • 6-digit display type



## **Specifications**

			Ralay ou	tput type	Transistor output type				
	Item		AC type	DC/AC type	DC/AC type				
	Rated opera	ting voltage	100 to 240 V	12 to 24 V DC/24 V AC					
	Rated frequency		50/60 Hz common						
	Rated power consumption		Max. 10 V A	(. 3 W					
	Rated contro	ol capacity	5 A 250 V AC	100 mA, 30 V DC					
	Input mode		Addition (UP)/Subtraction (DOWN)/Direction (DIR)/Individuality (IND)/Phase (PHASE) 5 modes selectable by DIP switches						
	Max. counting speed		30 Hz, 5 kHz (selectable by DIP switches)						
	Counting input (input 1, input 2)		16.7 ms at 30 Hz/0.1 ms at 5 kHz ON time: OFF time = 1:1						
	Reset input		Min. input s	signal width: 1 ms, 20 ms (selected by DII	P switches)				
Rating	Lock input			Min. input signal width: 20 ms	,				
	Input signal		Contact, Open collector input/DC two-wire Open impeda	e system sensor Input impedance: 1 k $\Omega$ c ince: 100 k $\Omega$ or less, Max. energized volt					
	Output mode		HOLD-A, HOLD-B, HOLD-C, SH	IOT-A, SHOT-B, SHOT-C, SHOT-D, 7 m	odes selectable by DIP switches				
	One shot output time			1 s, 0.5s, 0.2s, 0.1s, 0.05, 0.01s					
	Indication		7-segment LCD, Counte	er value (backlight red LED), Setting value	e (backlight yellow LED)				
	Digit		4-digit display type –999 to 9999 (0 to 9999 for setting) 6-digit display type –99999 to 999999 (0 to 999999 for setting)						
	Decimal poir	nt	Can be set to three digits						
	Pre-scaling		0.001 to 9.999 (4-digit type), 0.001 to 99.999 (6-digit type)						
	Memory		EEF	EEP-ROM (Overwriting times: 10 <sup>5</sup> ope. or more)					
	Power for senser		12 V DC (±10%) 100 mA Max.	_					
	Contact arrangement		1 Fo	1 Form A (Open collector)					
Contact	Initial contac	t resistance	100 mΩ (at	1 A 6 V DC)	_				
	Contact mat	erial	Ag alloy/						
1.14-	Mechanical	(contact)	2 × 10 <sup>7</sup> ope. (Except for	switch operation parts)	_				
Life	Electrical (co	ontact)	10 <sup>5</sup> ope. (At rated	l control voltage)	10 <sup>7</sup> ope. (At rated control voltage)				
	Operating vo	oltage range	85 to 264 V AC	10.8 to 26.4 V DC,	20.4 to 26.4 V AC				
	Initial withsta	and voltage	Between live and dead metal parts: 2,000 Vrms for 1 min (pin type) Between input and output: 2,000 Vrms for 1 min						
Electrical	Initial insulat (At 500 V D	tion resistance C)	Between live and dead metal parts: Min. 100 M $\Omega$ (pin type) Between input and output: Min. 100 M $\Omega$						
	Temperature	e rise	Max. 65° C (unde	er the flow of nominal operating current at	nominal voltage)				
	Vibration	Functional	10 to 55 Hz (1 c	cycle/min), single amplitude: 0.35 mm (10	min on 3 axes)				
	resistance	Destructive	10 to 55 Hz (1	cycle/min), single amplitude: 0.75 mm (	1 h on 3 axes)				
Mechanical	Shock	Functional		Min. 98 m/s <sup>2</sup> (4 times on 3 axes)					
	resistance	Destructive		Min. 294 m/s <sup>2</sup> (5 times on 3 axes)					
	Ambient terr	perature		-10° C to 55° C +14° F to +131° F					
Operating	Ambient hur	nidity		Max. 85 % RH (non-condensing)					
conditions	Air pressure			860 to 1,060 h Pa					
Connection				11-pin/screw terminal					
Protective co	onstruction			IP66 (front panel with a rubber gasket)					

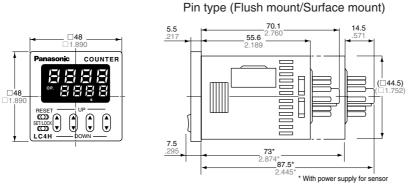
## **Applicable standard**

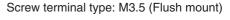
Safety standard	EN61812-1	Pollution Degree 2/Overvoltage Category II
EMC	(EMI)EN61000-6-4 Radiation interference electric field strength Noise terminal voltage (EMS)EN61000-6-2 Static discharge immunity RF electromagnetic field immunity EFT/B immunity Surge immunity Conductivity noise immunity Power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

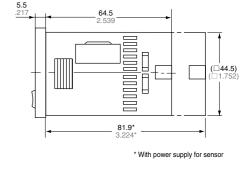
## **Dimensions**

General tolerance: ±1.0 ±.039

mm inch



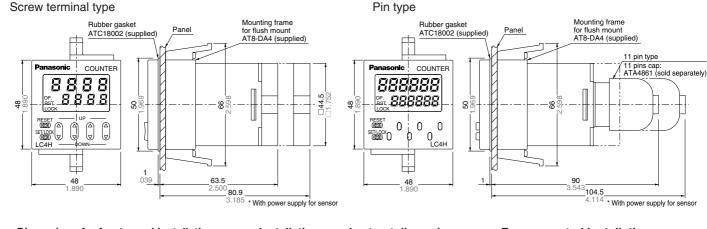




(\* 6-digit display type has the same dimensions.)

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

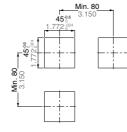
Screw terminal type



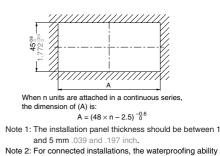
· Dimensions for front panel installations

#### • Installation panel cut-out dimensions

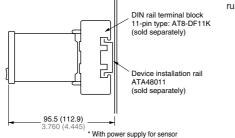
The standard panel cut-out dimensions are shown below. Use the mounting frame (AT8-DA4) and rubber gasket (ATC18002).



#### · For connected installations

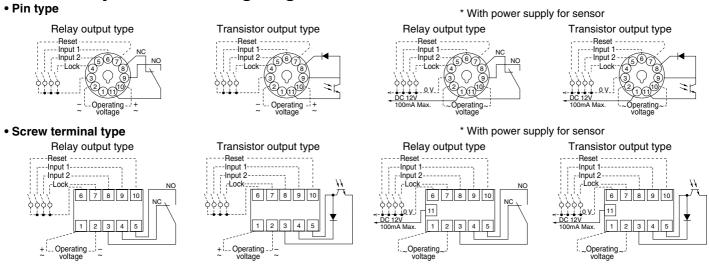


between the unit and installation panel is lost.



## LC4H-S

## **Terminal layouts and Wiring diagrams**



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

## Setting the operation mode and counter

#### 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 s	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 setting	30 Hz	5 kHz			
6						
7	Input mode	Refer to	table 2			
8						

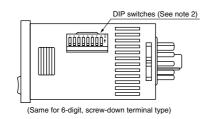


Table 1: Setting the output mode

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

Table 2: Setting the input mode

		•		
-	DI	P switch N	۱o.	Input mode
	6	7	8	Input mode
	ON	ON	ON	Addition input
	OFF	OFF	OFF	Subtraction input
	ON	OFF	OFF	Directive input
	OFF	ON	OFF	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.

Set the DIP switches before installing the counter on the panel.
 When the DIP SW setting is changed, turn off the power once.
 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

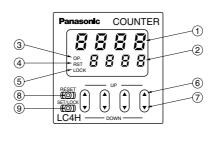
#### • 4-digit display type

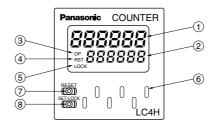
- (1) Counter display
- 2 Set value display
- (3) Controlled output indicator
- (4) Reset indicator
- (5) Lock indicator
- (6) UP kevs

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





#### (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) SET/LOCK switch
- This is used to handle pre-scaling values, one-shot times, decimal point position settings, and key lock operations (to disable Up key, Down key, and Reset key operations).
- 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 SET/LOCK switch

This is used to handle pre-scaling values, one-shot times, decimal point position settings, and key lock operations (to disable Up key, Down key, and Reset key operations).

#### Setting procedure 3) Setting the input mode

The input mode is set using the key switch in the [Display] section on the front of the counter.

#### Decimal point position setting mode

① Holding down the [SET/LOCK] key, press the key for the second digit to access the decimal point position setting mode.

Po

Example) 6-digit type Decimal point position setting mode display (Example shows default value displayed)

② When the setting mode has been accessed, release the [SET/LOCK] key.

## LC4H-S

③ The decimal point is set using the [UP] and [DOWN] keys to specify the 2nd, 3rd, and 4th digits (this applies only to 4-digit models).(The 1st digit is set using the [UP] key or [DOWN] key in settings where there is no decimal point (this applies only to 4-digit models).)

Example) 6-digit type Example shows 2nd digit displayed using [UP] key

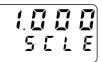
④ Press the [RESET] key to set the displayed decimal point position and return to normal operation.

#### • Setting the pre-scaling value

① Holding down the [SET/LOCK] key, press the key for the first digit to access the pre-scaling value setting mode.

Example) 4-digit type

Example) 6-digit type



SELE

Pre-scaling value setting mode displayed (Example shows default values displayed)

- 2 When the setting mode has been accessed, release the [SET/LOCK] key.
- ③ Use the [UP] or [DOWN] key to set the pre-scaling value (this applies only to 4-digit models).

Select either: 0.001 to 9.999 (4-digit) or 0.001 to 99.999 (6-digit)

④ Press the [RESET] key to set the displayed pre-scaling value and return to normal operation.

#### Setting the one-shot output time

① Holding down the [SET/LOCK] key, press the key for the third digit to access the one-shot output time setting mode.



Example) 6-digit type One-shot output time setting mode displayed (Example shows default value displayed)

- 2 When the setting mode has been accessed, release the [SET/LOCK] key.
- ③ Each time the 1st-digit [UP] key is pressed, the one-shot output time changes in the following sequence, moving to the right:

$$\rightarrow 1 \text{ s} \rightarrow 0.5 \text{ s} \rightarrow 0.2 \text{ s} \rightarrow 0.1 \text{ s} \rightarrow 0.05 \text{ s} \rightarrow 0.01 \text{ s} \rightarrow 0.01 \text{ s}$$

(With a 4-digit type, the [DOWN] key can also be used to move to the left.)

④ Press the [RESET] key to set the displayed one-shot output time and return to normal operation.

## 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 points.

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 thew counter is preset to count down. Whether a preset count-down 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 countup. 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 (zero)" and so the counter does not count up.
3) Directive, independent, and phase inputs
The counting value is counted up or

down to any number other than "0" once. When it comes to "0 (zero)" again, the counter starts counting up.

## **CAUTIONS FOR USE**

For more information regarding the cautions for use of LC4H series counter, refer to page 140 "PRECAUTIONS IN USING THE LC4H SERIES".

Operation mode 1. Input mode For the input mode, you can choose one of the following five modes

<ul> <li>Addition</li> </ul>	UP
<ul> <li>Subtraction</li> </ul>	DOWN
<ul> <li>Directive</li> </ul>	DIR
<ul> <li>Independent</li> </ul>	IND
	DUADE

Phase

е	DIR
ndent	IND
	PHAS

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 counting input and IN2 is the input block (gate).      IN1     H     A     A     A     A     Blocked     IN2     H     O     1     2     3      n-3     n-2     n-1     n     Counting (subtraction)     A     Reset     Count-up completed
Subtraction DOWN		<ul> <li>Example where IN2 is the counting input and IN1 is the input block (gate).</li> <li>IN1 H Blocked Blocked F A A A F A A A F A A F A A F A A F A A F A A F A A F A A F A A F A A F A A F A A A F A A A F A A A F A</li></ul>
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 H IN2 H Counting O 1 2 3 4 3 2 1 0 1 2 3 4 Counting Counting C
Independent IND	IN1 is addition input and IN2 is subtrac- tion input.	IN1 H IN2 H Counting D 1 2 3 4 3 2 1 2 1 2 3 Counting Counting Cou
Phase PHASE	Addition when the IN1 phase advances beyond IN2, and subtraction when the IN2 phase advances beyond IN1.	$IN1 \qquad H \qquad $

## LC4H-S

#### 2. Output mode

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

<ul> <li>Maintain output/hold count</li> </ul>	HOLD-A
Maintain output/over count I	HOLD-B
Maintain output/over count II	HOLD-C
<ul> <li>One shot/over count</li> </ul>	SHOT-A
One shot/recount I	SHOT-B
One shot/recount II	SHOT-C

One shot/hold count
 SHOT-D

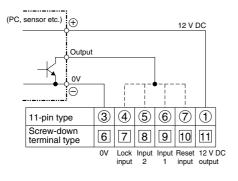
Output mode	Operation	(Exam	ple when ir	iput mo	de is ei	ther ad	dition o	r subtra	ction)
	Output control is maintained after								
Maintain output	count-up completion and until resetting. During that time, the count display does	Counting (addition)		n-3	n-2	n-1	I	n	]
Hold count	not change from that at count-up com-	Counting (subtraction)		3	2	1		0	
HOLD-A	pletion.	Counting able/unable	•	Able				Unable	
			OFF						
	<u></u>	* n: Set value							
	Output control is maintained after count-up completion and until resetting.	Counting (addition)		n-2	n-1	n	n+1	n+2	
Maintain output Over count I	However, counting is possible despite completion of count-up.	Counting (subtraction)		2	1	0	-1	-2	
HOLD-B	completion of count up.	Counting able/unable	•			Able			
		Output control	OFF			ON			
		* n: Set value							
	Output control is maintained after	Counting (addition)		n-2	n-1	n	n+1	n+2	
Maintain output	count-up completion and until the next signal enters. However, counting is			2	1	0		-2	
Over count II	possible despite completion of count- up.	Counting (subtraction)		2	1	Able	-1	-2	
HOLD-C		Counting able/unable	•				   		
		Output control * n: Set value	OFF				OFF		
	Output control is maintained after							I	
	count-up completion for one shot output time. Counting is possible despite com- pletion 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		   	
		Output control	OFF			ON		OFF	
		* n: Set value	Approx. 1s						
	Output control is maintained after count-up completion for one shot output	Counting (addition)		n-2	n-1	0	1	2	
One shot	time. Counting is possible despite com-	Counting (subtraction)		2	1	n	n-1	n-2	
Recount I	pletion of count-up. However, reset occurs simultaneous with completion of	Counting able (weat t			Z	AReset (a	automatic)		
SHOT-B	count-up. While output is being main- tained, restarting of the count is not	Counting able/unable							
	possible	Output control * n: Set value	OFF			Appr	ox. 1s	OFF	
	Output control is maintained after	Counting (addition)		n-1	n	n+1	0	1	
	count-up completion for one shot output			1	0	-1	n	n-1	
Onestat	time. Counting is possible despite com-	Counting (subtraction)			1 0		Ļ		
One shot Recount II	pletion of count-up. However, reset	Counting (subtraction)				4	ДReset (a	automatic)	
		Counting (subtraction) Counting able/unable				Able	AReset (a	automatic)	
Recount II	pletion of count-up. However, reset	Counting able/unable			ON	Able	AReset (a	automatic)	<b>&gt;</b>
Recount II	pletion of count-up. However, reset occurs simultaneous with output OFF.	Counting able/unable Output control * n: Set value	◄						→ 
Recount II	pletion of count-up. However, reset	Counting able/unable	◄	n-1	Appr	Able		1	
Recount II SHOT-C	Output control is maintained after count-up completion for one shot output time. During that time, the count display	Counting able/unable Output control * n: Set value	● 	n-1 1	Appro	Able	OFF 0	1 n-1	
Recount II SHOT-C	Pletion of count-up. However, reset occurs simultaneous with output OFF. Output control is maintained after count-up completion for one shot output	Counting able/unable Output control * n: Set value Counting (addition) Counting (subtraction)	OFF	1	Appro	Able	OFF 0	1	
Recount II SHOT-C	Output control is maintained after count-up completion for one shot output time. During that time, the count display does not change from that at count-up	Counting able/unable Output control * n: Set value Counting (addition)	OFF	1	Appro	Able	OFF 0	1 n-1 automatic)	 

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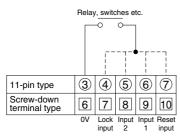
## Input connections

Signal input type

#### 1) Open collector



#### 3) Contact input

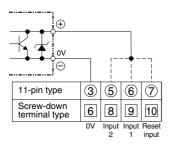


Input 1, input 2, and reset input specifications

- Impedance during short-circuit: 1 k $\Omega$  max.
- (At 0  $\Omega$ , the outflow current is approximately 12 mA.)
- Residual voltage during short-circuit: 2 V max.
- Impedance when released: 100 k $\Omega$  min.
- Max. applied voltage: 40 VDC max.

\* There is no 12 V DC with 12 - 24 V DC/24 V AC types.

#### 5) For a dual-line sensor

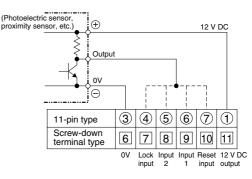


Dual-line sensor specifications

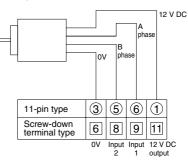
- Leakage current: 1.5 mA max.
- Breaker capacitance: 5 mA min.
- Residual voltage: 3.0 V max.
- Usable voltage: Runs on 10 VDC

\* If a dual-line sensor is connected to a 12 - 24 VDC/24 VAC type, 24 VDC (21.6 to 26.4 VDC) and 24 VAC (21.6 to 26.4 VAC) should be applied to the power supply voltage of the counter.

#### 2) For voltage output



4) For a rotary encoder



Lock input specifications

- Impedance during short-circuit: 1 k $\Omega$  max.
- (At 0  $\Omega$ , the outflow current is approximately 1.5 mA.)
- Residual voltage during short-circuit: 2 V max.
- $\bullet$  Impedance when released: 100 k $\Omega$  min.
- Max. applied voltage: 40 DVC max.
- $\bullet$  The contact relay should be one which can open/close 5 V, 1.5 mA.

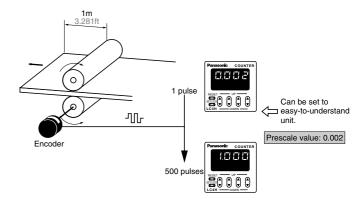
## What is the prescale function?

The prescale function converts the count into an actual value (amount) and displays it.

Example

For a device that outputs 500 pulses when 1 m has been fed:

- 1. Set decimal position to the last 3rd place.
- 2. Set the prescale value to 0.002 (1/500).



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