

Easy to see! Total counter with 24 × 48!

White LCD display(LED back-light but except for DC-JA7-V)
3 kinds of power source, AC power, DC power and built-in battery are lined-up.

7 digits display, It can be changed to overflow display when counting is more than 7 digits. It can count up to 99,999,999 inside.

It prevents wrong operation because key-protecting function provides.

Reset key provides in front and it can set reset key-lock with dipswitch in the bottom



DC-JA7-AW



DC-JA7-V

Specifications

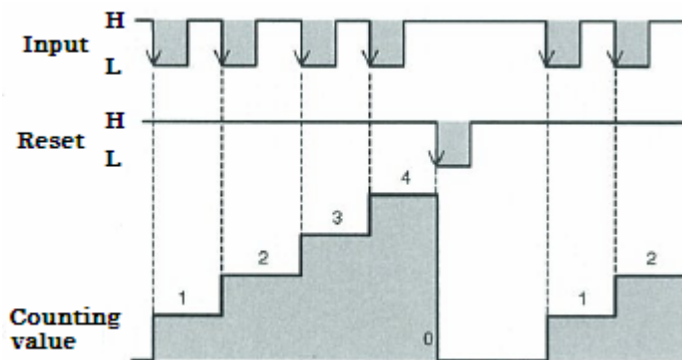
Type	Increment total counter		
Model No.	DC-JA7-AW	DC-JA7-DW	DC-JA7-V
Power source	100 to 240VAC (50/60Hz)	12 to 24VDC(ripple 20% or less)	
Fluctuation range	85 to 250VAC	12 to 24VDC ± 10%	
Power consumption	1.2VA(at 240VAC)	0.7W(at 24VDC)	
Built-in battery			CR2477 1,000mAh
Battery life			5 years or more(+25 continuous use) ^{Note)}
Front size	24 × 48mm		
Number of digit	7 digits(overflow display for 8th digit)		
How to mount	Panel mounting		
Display	7-segment LCD(LED back-light), H : 9mm, W 2.95		7-segment reflective LCD
Memory function	EEP-ROM(Re-writing 0.1 million times or more)		
Counting speed	Changeover for 30Hz/1kHz 30Hz : Contact and open-collector, min. signal width 16.7msec(make ratio 1:1) 1kHz : Open-collector, min. signal width 0.5msec(make ratio 1:1)		
Reset	External reset(min. reset time : 50msec), manual reset		External reset(min. reset time : 100msec), manual reset
Pre-scale	0.001 to 9.999		
Input mode	Increment		
Input signal	Contact or open-collector, Impedance when ON(short-circuit) : 1k or less, Impedance when OFF(opened) : 100k or more, Flowing current when short-circuit : approx. 4mA		Contact or open-collector, Impedance when ON(short-circuit) : 10k or less, Impedance when OFF(opened) : 1M or more, Allowable residue voltage when ON : 0.5V or less, Flowing current when short-circuit : approx. 4 μA
Ambient temperature/humidity	-10 to +50 (-25 to +55 when stored), 35 to 85%RH		
Insulation resistance	100M or more(500VDC megger), between conducting terminal and non-charged metal part		
Withstand voltage	2,000VAC/min., between conducting terminal and non-charged metal part		
Noise resistance	Rectangular wave nose by noise simulator(build-up 1nsec, width 1 μ sec), common mode 2kV		
Withstand static electricity	10kV (8kV when in malfunction)		
Vibration resistance	Double amplitude 4mm, 16.7Hz, each 1 hour in X, Y and Z direction, malfunction : double amplitude 0.5mm, 10 to 55Hz, each 10 min. in X, Y and Z direction		

Impact resistance	294m/s ² , each 3 time in X, Y and Z direction, malfunction : 98ms ² , each 3 time in X, Y and Z direction	
Starting time when Power-ON	2sec or less	
Protective structure	IP66(IEC standard, only front part with using rubber packing)	
Applied standard	EMI[EN61000-6-4] : EN55011 class A, EMS[EN61000-6-2] : EN61000-4-2/4-3/4-4/4-5/4-6/4-8/4-11 LVD : EN61010-1(Class 2)	EMI[EN61000-6-4] : EN55011 class A, EMS[EN61000-6-2] : EN61000-4-2/4-3/4-4/4-5/4-6/4-8
Case material	Polycarbonate	
Weight	Approx. 70g	Approx. 60g
Accessory	Hook, rubber packing	

Note) Battery life is calculated under the condition in parentheses and this value is not guaranteed.

Dust-proof cover(GZ00010) is available

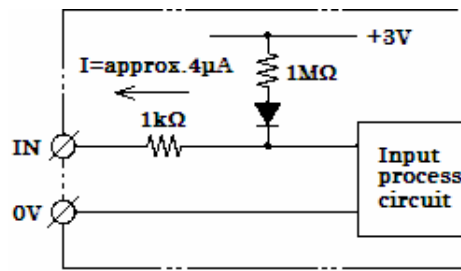
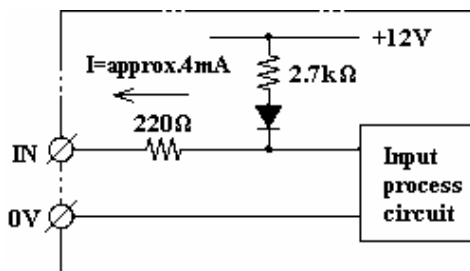
Operating mode



Input/output circuit

DC-JA7-AW/DC-JA7-DW

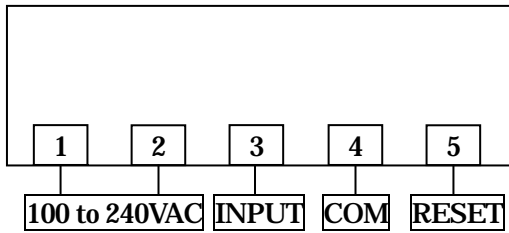
DC-JA7-V



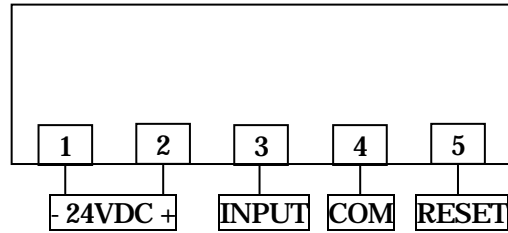
DC-JA

Connection

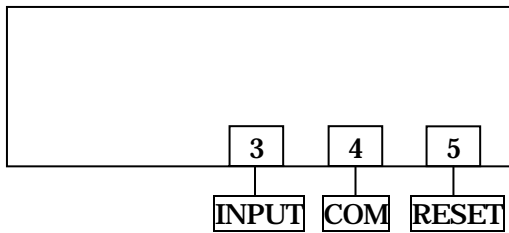
DC-JA7-AW(AC power)



DC-JA7-DW(DC power)



DC-JA7-V(Built-in battery)



[Caution items]

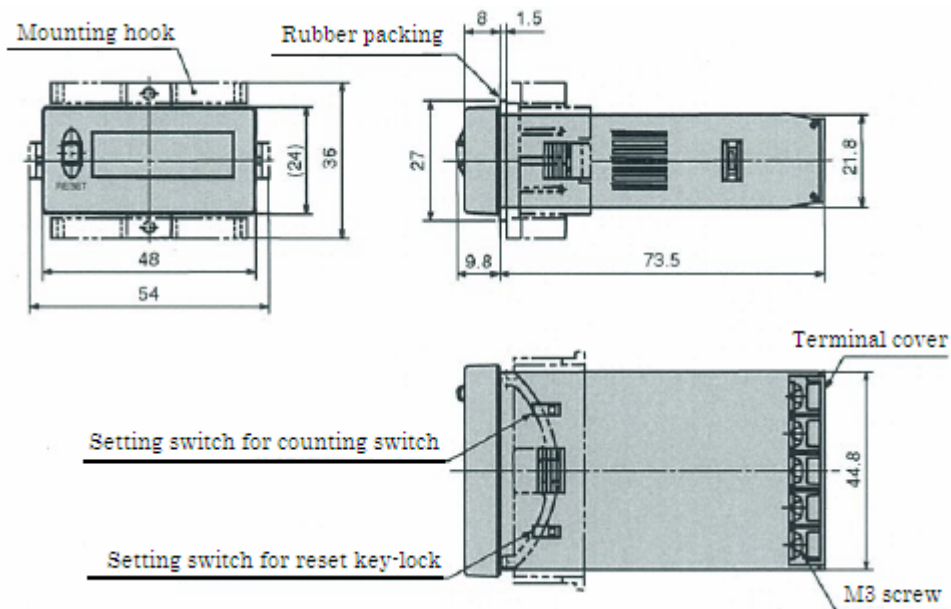
Don't use empty terminal as relay terminal

Each input for counting and reset is common use for contact and transistor. Make a wiring with 2-core shield wire and metal as short as possible. Also, don't make a wiring with power and high voltage line etc.

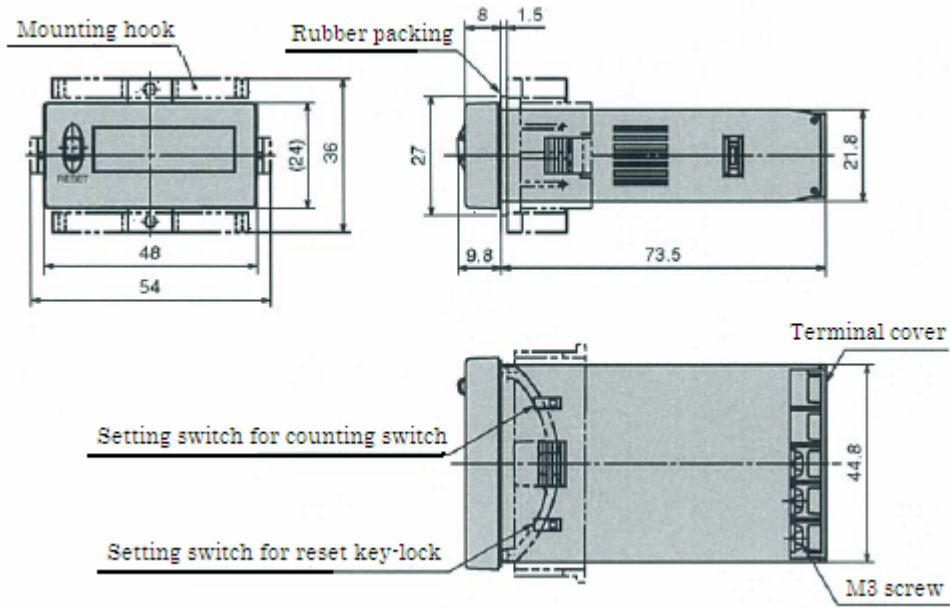
Use solderless terminal for M3.

External dimension

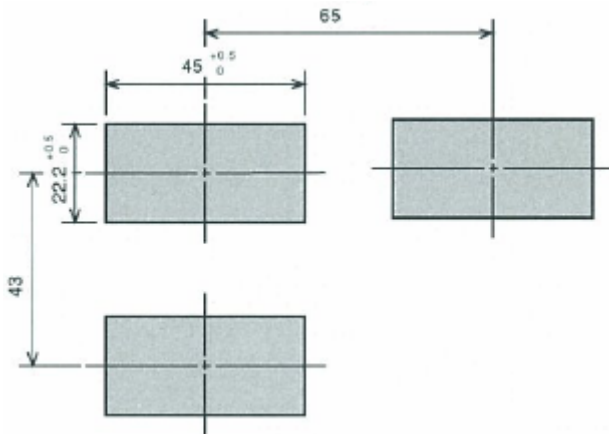
DC-JA7-AW/DC-JA7-DW



DC-JA7-V



Panel cut dimension



Mounting frame

Use this frame if you are using counters with 35 × 60, panel cut size such DC-NXA, DC-SAN etc.



How to use

(Each part)



Counting part	Counting value
Reset key	Reset of counting value
Reset key-lock	Lights up when reset key is locked
Overflow	Lights up when counting value is proceeding to 8 digits

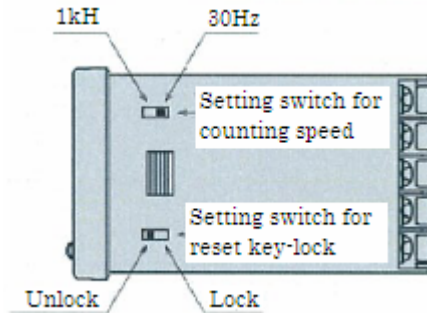
Overflow display

When counting value would be over 7 digits, overflow display would light up. For example, when counting value would be "12,345,678", "1"(8th digit) and "2345678"(1st to 7th digit) are displayed mutually.



Dipswitch

Dipswitch is located at the bottom of counter and it can set counting speed and lock/unlock of reset key.



Model No.	DC-JA7-AW	DC-JA7-DW	DC-JA7-V
Counting speed	1kHz/30Hz		
Reset key-lock	Lock/unlock		
Change of switch	Available by putting power source after changing the switch		Available by changing the switch

Setting when shipment is 30Hz and unlock.

Note) Setting of dipswitch is available only for reset key in the front panel. Reset input from terminal box is unlocked condition.

Caution items

Make sure to use DC-JA7-V after removing isolating sheet at the side of counter.

