Economy Type Electromagnetic Counter

AC-NH SERIES

High quality and low cost with simple mechanis

- No screw structure is built to withstand long use.
- Coil doesn't burn out for wrong use because overheat prevention circuit for reset magnet provides. (Only for AC-NHBA4, AC-NHBA6, AC100V, AC200V）
- Guard for misreset provides.
- Surge absorber circuit provides. (For 100VAC, 200VAC)
- Mouning is one-touch type without screw.

4 digits type

6 digits type

■ Model No.

Model No.	AC-NHB4			AC-NHBA4		
Power source	100VAC	200VAC	24VDC	100VAC	200VAC	24VDC

Model No.	AC-NHBR4*			AC-NHB6		
Power source	100VAC	200VAC	24VDC	100VAC	200VAC	24VDC

Model No.	AC-NHBA6		
Power source	100VAC	200VAC	24VDC

*This model provides automatic reset circuit. Output executes and it is automatically reset when counting value reaches preset value.
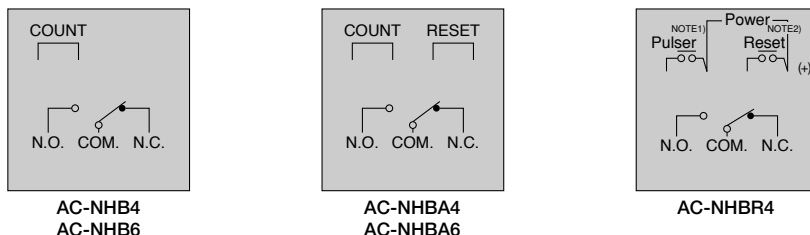
■ Specifications

Type	Increment tyep preset				
Model No.	AC-NHB4	AC-NHB6	AC-NHBA4	AC-NHBA6	AC-NHBR4
Power source	DC power: 24VDC, AC power: 100VAC, 200VAC(50/60Hz)				
Allowable fluctuation rate	-10 to +10％				
Allowable ripple rate	48％ or less(for DC power)				
Counting	1/2 counting when power-ON, 1/2 counting when power-OFF*1				
Numbers of digit	4	6	4	6	4
Counting speed	10Hz Both ON time and OFF time: 50ms(Min.)				
Rating of conducting time	Continuous conducting				
Power consumption	3.6W(For DC power), 5VA(For AC power)				
Life	0.1 billion count				
Counting indication	White on black frosted(3.8mm✕2.6mm)Note)				
Control output	1C relay(Microswitch)				1C relaya
Contact rating*1	AC250V　5A(Resistance load)				AC250V　3A (Resistance load)
Operating	Operating when preset value and returning by reset				Single-shot operating for 0.3sec when preset value and then, returning automatically
Life	0.5 million times(When rating load)				0.2 million times (When rating load)
Reset	Manual		Electro-magnetic/manual		Automatic/manual*3
Manual reset	By pushing button				
Electro-magnetic reset	Rating of conducting time: short-time rating, Max. conducting time 60sec〔Coil overheat prevension circuit provides for 100VAC and 200VAC〕 Min. conducting time: 0.3sec(Recommended conducting time: 0.5 to 1sec) Conducting rate: 5% or less（Interval between resets is 20 times or more of conducting time） Min.reset interval: 20sec(Min. reset interval between resets) Interval time: 0.2sec(Time from reset to next reset) Power consumption: 16W or less(for DC power), 25VA or less(for AC power)				——————
Automatic reset	—————————————————————————				Automatic reset when preset value
Reset life	1 million times				0.2 million times

Connection	M3 screw terminal(With self-up washer)		
Ambient temperature/humidity	-5 to +40℃, 85％RH or less(Not icing)		
Mounting	Panel mounting		
Case material/color	Case: ABS resin, Dust-proof cover: Polycarbonate, Munsell N-7(Light gray)		
Weight	260g	290g	320g

*1. AC-NHBR4 type counts by short-circuit between counting term   inals. In case that, don't input the voltage between counting t   erminals.
*2. Contact capacity to open/close depends on load. (Ex: Induce   d load 250VAC 4A, Motor load 250VAC 0.7A) Min. applicable load: Min.power 0.8W(Wh
    less), Min. voltage: 6V.
*3. Reset can be made by external signal. (Reset by short-circu   it between reset terminals. Don't input the voltage between res   et terminals in this case.
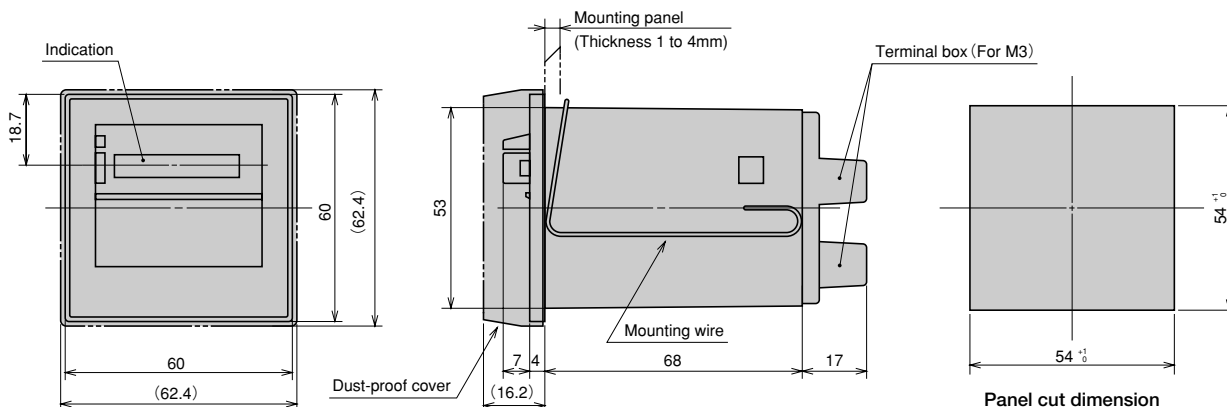Note) 6 digits type(AC-NHB6, NHBA6) is 3.4mm×2.4mm.

■ Connection

〔Terminal arrangement〕

AC-NHB4
AC-NHB6

AC-NHBA4
AC-NHBA6

AC-NHBR4

Note 1) It counts when contact input is changed from OFF to ON(Don't input the voltage between ① and ② in this case.)
Note 2) It reset when contact input is ON(Don't input the volta   ge between ⑥ and ⑦).

Caution   Use round solderless terminal for M3 when connection.

■ External dimensions

Panel cut dimension

■ Caution

〔Handling, maintenance〕

● Make sure not to push reset button during counting.
● Make a opening/closing of front cover for preset under pushing   reset button completely.(Refer to AC-NS series about how to pre
● Wipe with a neutral detergent when dirty. Don't use organic sol   vent or caustic soda.
● Don't take the counter apart or add oil.