

DH48J digital counter manual

DH48S adopt advanced IC and digital tube, can replace H7CN or such function products. With advantage of beautiful appearance, wide delay time range, high accuracy, low power consumption, long life, big contact rating, used for automatic control.

Model description

DH48J: can be input by electromagnetic relay, limit switch, etc, with reset function;

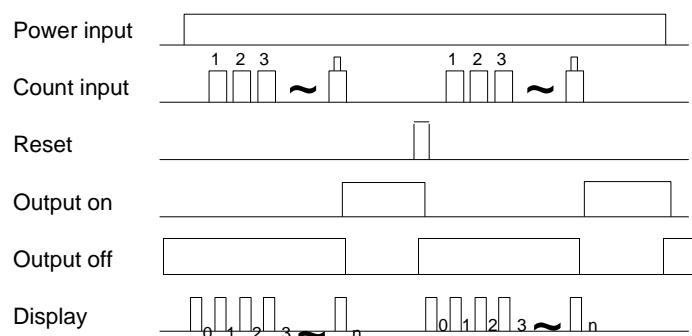
DH48JA: can be input by proximity sensor, photoelectric sensor, etc;

DH48J-11A: can be input by electromagnetic relay, limit switch, proximity sensor, photoelectric sensor, etc, with reset function, no-power memory can remain 10 year.

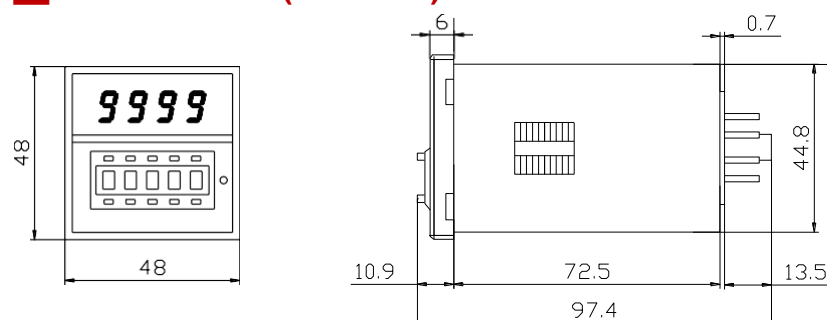
Features

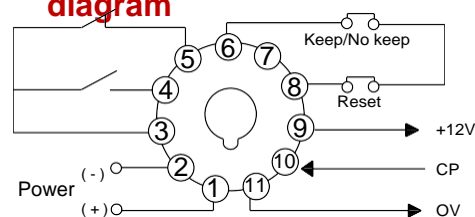
1. Power supply tolerance: 85-110% rated voltage
2. AC: 110V, 220V, 380V
3. DC: 12V, 24V
4. Counting range: 1-9999 x1/x10/x100 multiple
5. Contact rating: 5A@220Vac, 5A@30Vdc(Resistance)
6. Mechanical life: $\geq 10^7$
7. Electrical life: $\geq 10^5$
8. Power consumption: $\leq 5W$
9. Operating temperature: $-10^{\circ}C$ to $50^{\circ}C$
10. Operating humidity: 95% RH max, non-condensing
11. Above sea level: $<2000m$
12. Max. counting speed: 30 cps
13. Min. counting pulse: 15ms

Sequence diagram

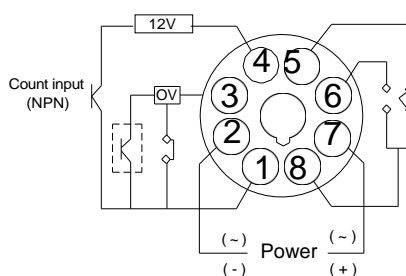


Dimensions (Unit: mm)

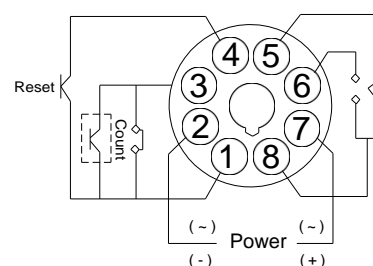




DH48J-11A

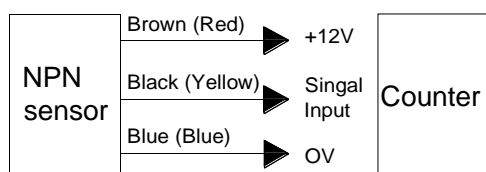


DH48JA



DH48J

NPN type sensor input for DH48J-11A, DH48JA



Use description

1. Preset multiple first, then press reset button, or disconnect the power more than 0.5 seconds then turn on the power, so that complete preset. (If the multiple is x10, it means input 10 input signal, display digital increase 1).
2. In a strong current environment, if the reset and signal wires are long, please use a shielded wire.
3. DH48J-11A, DH48JA 12V DC power output can be used for sensor supply, current is < 30mA.
4. When the DH48J-11A's ⑥ and ⑦ terminals switch on, it mean not keep memory, otherwise mean keep.
5. When the count reaches to preset number, the relay contact transposition, stop counting.
6. It is forbidden to add external voltage to reset, counting and memory terminals.
7. Can be customized.

DH48S digital timer manual

DH48S adopt advanced IC and digital tube, can replace H5CN or such function products. With advantage of beautiful appearance, wide delay time range, high accuracy, low power consumption, long life, big contact rating, used for automatic control.

Model description

DH48S-1Z:

Delay SPDT, with reset, pause function;

DH48S-2Z:

Delay DPDT;

DH48S-2ZH

Delay SPDT and instantaneous SPDT

Delay range(set by panel dial switch)

DH48S

Switch value	Delay range
H	1M-99H99M
M	1S-99M99S
S	0.01S-99.99S

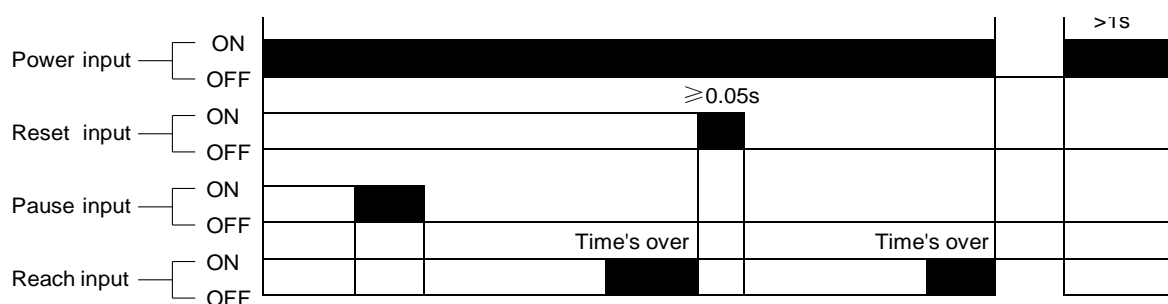
DH48SA

Switch value	Delay range
M S	1S-99M99S
H M	1M-99H99M
0.01S	0.01S-99.99S
0.1S	0.1S-999.9S
S	1S-9999S
M	1M-9999M
10S	10S-99990S
0.1M	0.1M-999.9M
0.1H	1H999.9H
H	1H-9999H

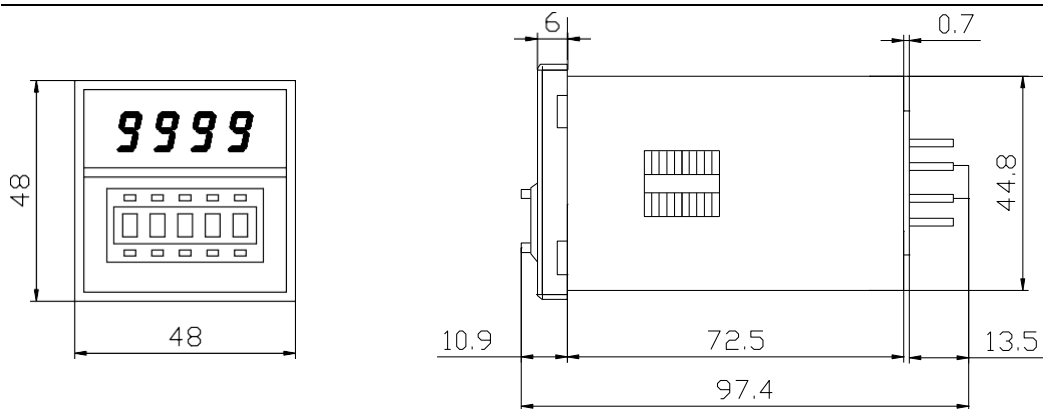
Features

1. Power supply tolerance: 85-110% rated voltage
2. AC: 110V, 220V, 380V
3. DC: 12V, 24V
4. Repeat accuracy: $\leq 0.3\% \pm 0.05s$
5. Contact rating: 3A@250Vac, 5A@28Vdc(Resistance)
6. Mechanical life: $\geq 10^7$
7. Electrical life: $\geq 10^7$
8. Power consumption: $\leq 5W$
9. Operating temperature: $-10^{\circ}C$ to $50^{\circ}C$
10. Operating humidity: 95% RH max, non-condensing

Sequence diagram

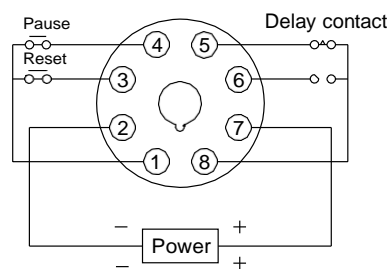


Dimensions (Unit: mm)

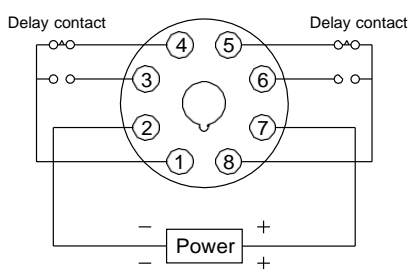


Note: Perforation dimension 45.5x45.5 mm

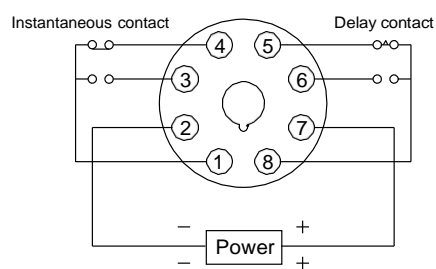
Wiring diagram



DH48S-S, DH48S-1Z



DH48S-S-2Z, DH48S-2Z



DH48S-2ZH

Use description

1. Set delay time first, then switch on electric power.
2. After delay time set, should cover the protective hat, to avoid to press the dial switch then timer action.
3. If the load current is big, should be used with contactor.
4. When switch on ①③ terminal, the contact position will reset, when switch off, the time will begin with zero, can use this function to achieve Off-delay function (DH48S-2Z don't have this function).
5. Use pause function as a counter: (DH48S-2Z don't have this function), when switch on ①④ terminal, the time is pause, display hold, when switch off, the time continue.
6. Reset and pause wire, please use shield wire.
7. Forbid add voltage to pause or reset terminal.
8. The use circumstance should be without causticity, dust, rain, frost, oil mist.
9. Note: This product can full display, hidden zero, count, countdown.