

SAINT WIEN DIGITAL COUNTER

H7K- 1/2

H7K-

TYPE H7K-1D, 2D, 3D, 4D, 5D. DIN Size 48x48mm
Microcomputer based Digital Counters

FEATURES

- *Incorporative an exclusive one-chip microcomputer based Miniature Digital Counter
- * Normal is Up count. Down count is available upon request.
- *Front panel with 30 [30] or 3K [3K] cps counting speed select SW, Auto [A] or Manual [M] reset select SW.
Auto reset time (one shot) adjustable 0.1-4S
Manual reset [R] push button SW is also available.
- *Outstanding noise immunity with Schmitt trigger circuit applied to the input terminal.
Software de-bouncing to 30 cps to SW or contact input.
- *Power off reset or with suffix of [M] is EEPROM backup memory available
- *Compact size DIN 48x48mm, for both surface & flush mounting



AVAILABLE TYPES

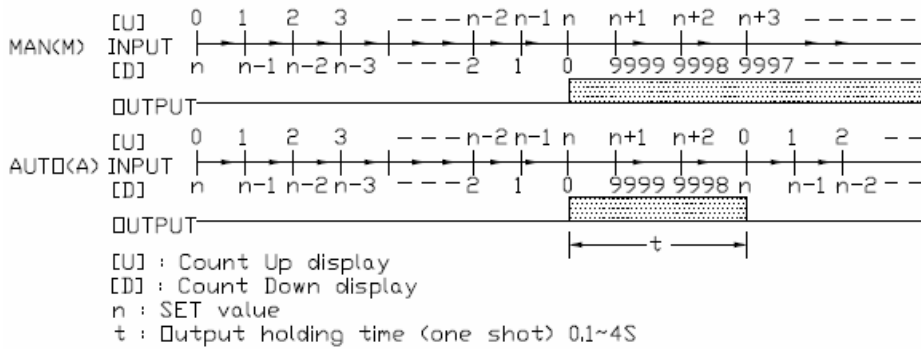
Type	H7K-□U	H7K-□D	H7K-□UM	H7K-□DM
Operation	UP	DOWN	UP	DOWN
Reset	YES , Auto/Man			
Display	YES			
Backup memory	NO		YES	
Reset method	1. POWER off reset 2. Manual reset 3. Auto reset		1. Manual reset 2. Auto reset	
No. of digit	□=1 to 5 digits			

SPECIFICATIONS

- *Rated voltage: 110 or 220VAC 50/60Hz; 12 or 24VDC
 - *Operating voltage: 90~110% of rated voltage.
 - *Power consumption: 2~3.5VA
 - * External sensor power supply: 12VDC+-20%, 20mA
 - *Count input: 1.Contact/SW input: Connect 12VDC by shorting or opening the contact/SW
2.Solid state voltage input: High=+6 to 30VDC
Low=0 to 2VDC
Input impedance=4.7KΩ
 - *Maximum counting speeds: 1. Contact input: [30] : 30cps maximum, minimum pulse width 16msec
2. Solid state voltage input [3K]: 3000cps maximum, minimum pulse width 0.16msec
 - *Reset system: 1. Power off reset: Minimum power off 0.5S
2. Manual reset [M]: Depress the reset [R] push button. Reset time following signal application 0.5S
3. Auto reset [A]: Auto reset time 0.1~4S panel adjustable. Internal 0.5S fixed auto reset for H7K-5U/D.
 - *Control output: Contact output SPDT (1A1B). 3A250VAC, PF=1.0
- Note: 1. Input signal ON/OFF ration=1:1
2. Power off reset is not applicable to the types with suffix "M".
3. Must press reset button [R] after changing the counting speed SW [30] [3K] or operation mode SW [A] [M].
Otherwise, the counter will work on previous counting speed or operation mode.

TIMING CHARTS (OPERATION MODE) (The following charts apply to 4-digit preset counters)

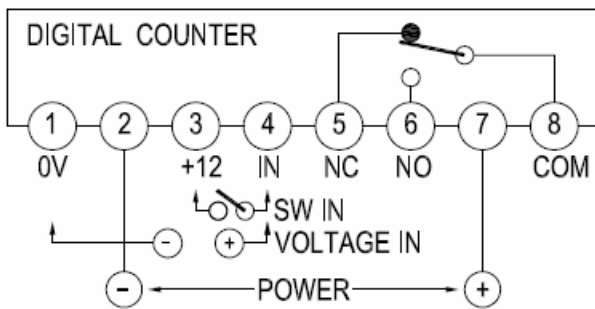
H7K- 2/2



Notes:

1. In this timing chart the number of step (display) advances during the one shot time (t period) is shown 3 pulses, But it may be changed by adjusting the speed of input signal and one shot time.
2. While the manual reset is being applied, the display is extinguished in all digit position.
3. One shot time is 0.1~4S panel adjustable except H7K-5D/U is internal fixed about 0.5S.

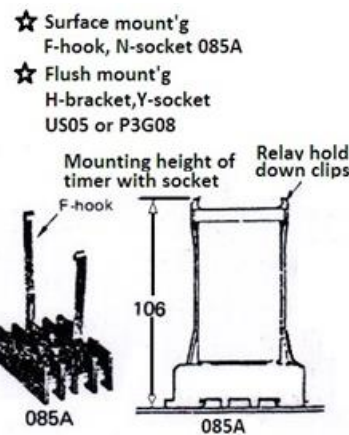
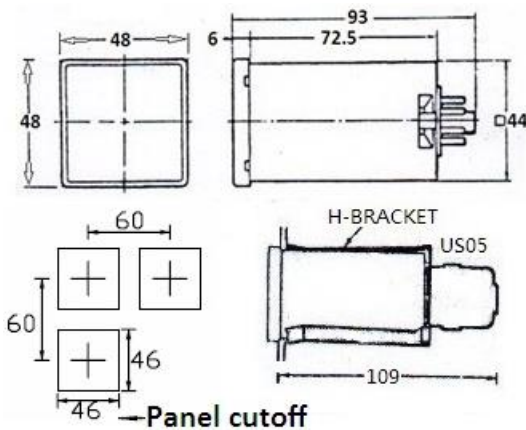
CONNECTION



PANEL SW & TIMER

- *AT [30] IS SWITCH IN
- *AT [3K] IS VOLTAGE IN
- *AT [A] IS AUTO RESET
- *AT [M] IS MANUAL RESET
- *TIME 0.1~4S FOR AUTO RESET [A]
- *RESET AFTER CHANGING SW POSITION
- *+12 OUTPUT 20mA FOR SENSOR
- *RELAY 3A 250VAC PF=1.0

DIMENSIONS(mm) & ACCESSORY



ORDER INFORMATION

- H7K-62-5UM** — M= Memory backup, no M is power off reset
- Counting direction: U=up count. D=down count
 - Nos. of prest: 1, 2, 3, 4, 5 digits
 - Voltage: 1=110V, 2=240V, 4=24V
 - Frequency: 5=50Hz, 6=60Hz, 7=DC
 - Type