

Product Features



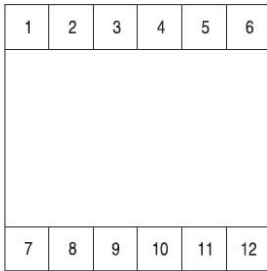
- Din sized enclosure for panel mounting.
- Wide Voltage range
- Front / Rear reset facility provided.
- Hold / Restart options (selectable) during power failure.
- Input signal from proximity switch (NPN / PNP type) or Potential free (zero volt) signal from limit switch, relay o/p etc
- Over-voltage protection
- CT-5: Digital, single window 5 digit 7 segment red LED display with up counting for process value.
- Preset Counts can be programmed with the help of thumbwheel switch
- H3CT-5U : Digital, single window 5 digit 7 segment red LED display with up counting for both process value and set value
- Input sensitivity - programmable (1-100Hz)

Specifications

Model	CT-5	H3CT-5U
Function	Preset counter (up counting)	
Rated supply voltage	85V-270V AC, 85V-270V DC	
Operating voltage range	85V-270V AC, 85V-270V DC	
Rated frequency	50 / 60Hz \pm 5%	
Power consumption	Approx. 4VA / 1W,	
Control relay output	1 c/o rated for 5A@250V AC / 28V DC resistive load	
Count range	0-99999counts.	
Count speed	100Hz. max (min I/P pulse width 200microsec)	100Hz max (min I/P pulse width 5msec)
Sensor type	Proximity sensor (NPN, PNP), limit switch	
Display	5 digit 7 segment LED 10mm height	5 digit 7 segment LED 0.28" height
Recovery time	2sec minimum	
Resetting time	250msec minimum	
Ambient temperature	Operation: -10°C to +55°C, Storage: -25°C to 80°C	
Humidity	Max. 85% RH @ 40°C	
Service life (under no load)	10 ⁶ operations minimum	
Electrical life (under full load)	10 ⁵ operations minimum	
Insulation resistance	>100Mohms @ 500V DC	
Di-electrical strength	1. 2.5KV AC, 50Hz for 1minute. (Between current carrying and non-current carrying parts). 2. 1.5KV AC, 50Hz for 1minute. (Between contacts and control circuit). 3. 750VAC, 50Hz for 1minute. (Between non-continuous contacts of the relay).	
Electrical connection	Screw type terminals with self lifting clamps	
Dimension (over-all)	72 x 72 x 128mm (W x H x D)	48 x 48 x 115mm (W x H x D)
Dimension (cut out)	69 x 69mm (W x H)	46 x 46mm (W x H)
Enclosure (series)	C1D series	H1D series (long box)
Sensor type	Proximity NPN / PNP Without Short Circuit Protection	Limit Switch, Proximity NPN / PNP Without Short Circuit Protection

Connections

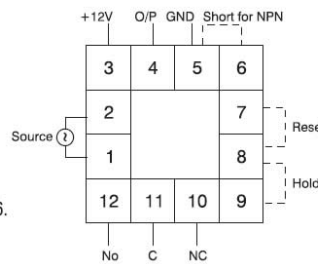
CT-5



Terminal Details

1 & 2 : Source
 3 & 4 : Short-Hold, Open-Restart
 4 & 5 : External reset
 4 & 6 : Short - NPN / Limit switch
 Open - PNP
 7, 8, 9 : NO, C, NC
Sensor Input - NPN / PNP
 10 : Output
 11 : Ground
 12 : +12V
 For NPN or Pot. free signal short terminals 4, 6.
 For PNP terminals 4, 6 open
 For Limit Switch : Potential free signal
 between terminals 10 & 11

H3CT-5U



Terminal Details

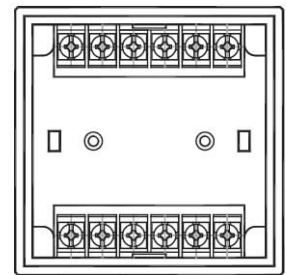
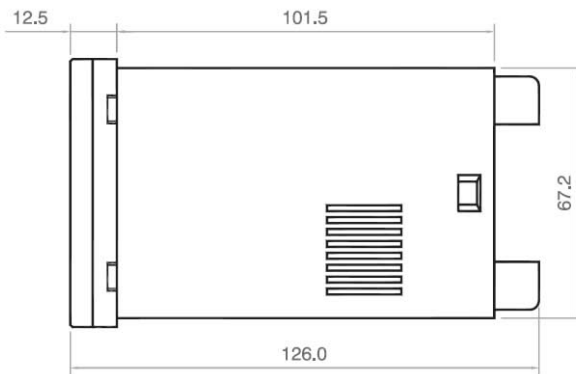
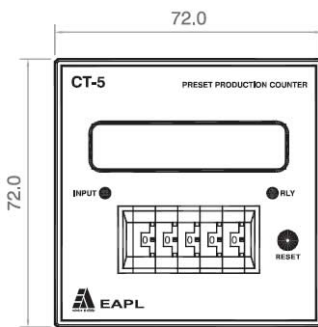
1, 2 : Source
 7, 8 : Reset
 8, 9 : Short - Hold, Open - restart
 10, 11, 12 : NC, C, NO

Sensor Input - NPN / PNP

3 : +12V DC
 4 : Output
 5 : GND
 For NPN or Pot. free signal short terminals 5, 6.
 For PNP terminals 5, 6 open
 For limit switch : Potential free signal between
 terminals 4 & 5

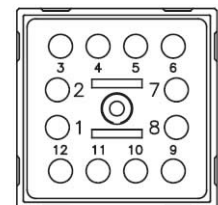
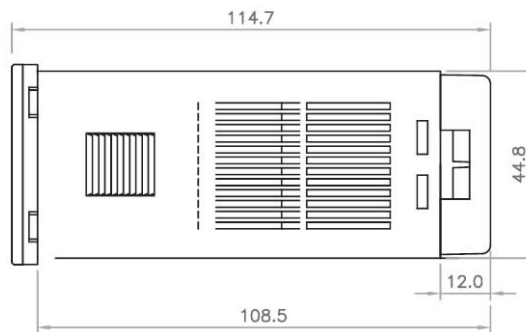
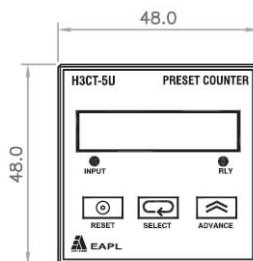
Dimensions

CT-5



NOTE : ALL DIMENSIONS ARE IN mm.

H3CT-5U



NOTE : ALL DIMENSIONS ARE IN mm.

Accessories

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- **Front Protective Cover:** The front protective cover shields the front panel from dust and dirt and water drip. It also prevents the set value from being altered due to accidental contact with tact switches.
- **Back Protective Cover:** Back protective cover protects the user from live wires.

Hints On Correct Use

- Do not apply power to the Sensor, Hold / restart, program enable, external reset & link NPN / PNP terminals.

Caution

- Do not change the counter value while the counter is in operation.
- Application of voltage other than the specified one will permanently damage the counter.
- Use 2.5mm² U-type lugs with sleeve to make proper & even contacts.

