

## H/C Series-Digital Counters

# H3CT-5U/CT-5/CT-5M

## 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.



## Ordering Information

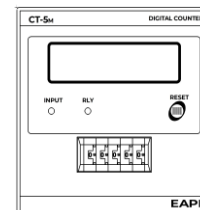
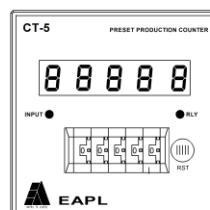
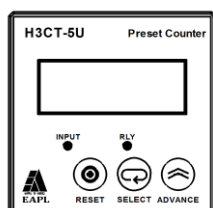
Models	Function	Source Voltage	Range	Output
H3CT-5U	Preset Counter 5 digits	85V to 270V AC / DC	1 to 99,999 counts	1C/o 5A resistive
CT-5				1 C/ O rated for 5A @ 250 VAC/ 30VDC(NO) 3A @ 250VAC / 30VDC (NC)
CT-5M				

## Front View

### H3CT-5U

### CT-5

### CT-5M

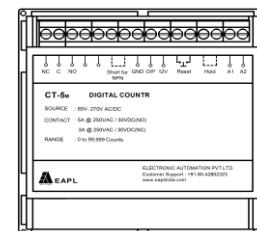
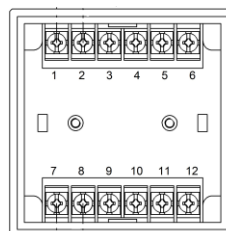
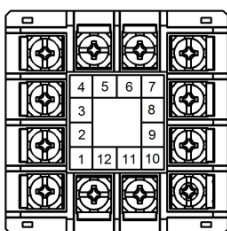


## Rear View

### H3CT-5U

### CT-5

### CT-5M



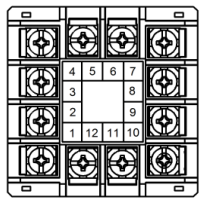
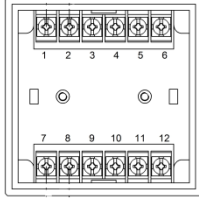
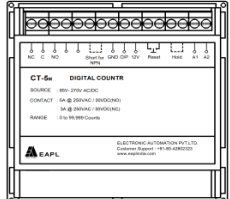
## Over-all and cut-out Dimensions

Models	Dimension Details in mm			Cut-out Dimension in mm	
	W	H	D	W	H
H3CT-5U	48	48	95.5	46	46
CT-5	72	72	128.5	69	69
CT-5M	96	96	53	92	92

## ■ Specifications

Parameters Models	H3CT-5U	CT-5	CT-5M
Function	Up Counter with hold mode		
Rated supply Voltage	85V to 270V AC/DC		
Rated Frequency	50/60Hz $\pm$ 5% for AC only		50/60Hz $\pm$ 5%
Power consumption	AC Approx. 8VA. DC Approx. 5W		
Control Output	RLY 1 - 1 C/O Rated for 5A @ 250 VAC/ 30VDC(NO) 3A @ 250VAC / 30VDC (NC)	1 C/O Rated for 5A @ 250V AC/28VDC resistive	1 C/ O Rated for 5A @ 250 VAC/ 30VDC(NO) 3A @ 250VAC / 30VDC (NC)
Display	5 digit 7 segment LED,0.30"	5 digit 7 segment LED , 10mm height	5 Digit 7 segment LED, 0.56"
Count Speed	100Hz max.(min I/P pulse width 5msec)		100Hz max.(min I/P pulse width 200msec)
Range	0 to 99,999 counts		
Resetting Time	250msec minimum		
Recovery Time	2 Sec minimum		
Ambient temperature	Operation : -10°C to +55°C    Storage : -25°C to +80°C		
Humidity	MAX 95% RH @ 40°C		MAX 85% RH @ 40°C
Service life(under no load)	10 <sup>6</sup> operations minimum		
Electrical life(under full load)	10 <sup>5</sup> operations minimum		
Rated Frequency of operation	1800 $\pm$ 5% operations per hour max		
Sensor type	Proximity NPN / PNP and Limit Switch		
Insulation resistance	>100M ohm @ 500V DC		
Dielectric strength	a) 2.5KV AC, 50Hz for 1 minute. (Between current carrying & noncurrent carrying parts) b) 1.5KV AC, 50Hz for 1 minute. (Between contacts & control circuit) c) 750V AC, 50Hz for 1 minute.(Between non-continuous relay contacts)		
Electrical connection	Screw type terminals with self lifting clamps		Screw type PCB connector
Over-all Dimension(WXHXD)	48 x 48 x 95.5mm	72X72X128.5	96X96X53
Cut-out Dimension(WXH)	46X46	69X69	92X92

## Connection and Terminal Details

Connection Details	H3CT-5U	CT-5	CT-5M
			
Terminal Details	H3CT-5U	CT-5	CT-5M
	<b>1,2:</b> Source Voltage <b>8,9:</b> Short for NPN and Limit Switch Open for PNP <b>12,10:</b> RESET (short for at least 250m Sec) <b>11,10:</b> Short-Hold Open-Restart <b>3,4,5:</b> NC, NO, C <b>6:</b> +12V <b>7:</b> Output <b>8:</b> Gnd <div style="display: inline-block; vertical-align: middle; margin-left: 10px;">           } Sensor input         </div>	<b>1 &amp; 2 :</b> Source voltage <b>3 &amp; 4 :</b> Short - Hold Open - Restart <b>4 &amp; 5 :</b> External Reset (Short for at least 250mS) <b>4 &amp; 6 :</b> Short - NPN / Limit Switch Open - PNP <b>7, 8, 9 :</b> NO, C, NC (RLY) <b>10 :</b> Output <b>11 :</b> Ground <b>12 :</b> +12V	<b>A1,A2:</b> Source Voltage <b>Hold :</b> Short-Hold Open-Restart <b>Reset:</b> Reset terminal <b>+12V:</b> } <b>O/P :</b> } Sensor input <b>GND :</b> }  <b>Short for NPN:</b> If NPN proximity sensor is used this terminal has to be shorted else open if PNP proximity sensor is used