MODULE SPECIFICATION

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5XT-A0M-DD Series: 9999 Days Countdown Timer Module

Main Features

- 4 keys: Start/Stop, up, down, and Reset
- Automatically memory resets the display to the last programmed time
- Depending upon the counting status, the display automatically changed to an appropriate format
- Power: 1.5 VDC
- Visual Alert: Full LCD screen blinking when time up
- External connection for power leads, and keys (solder pads at the edges of PCB)
- Optional to select three alarm method
- Various output poles for special application are available upon request

Specifications

♦ Physical Size:

PCB Size: 70 x 40 mm Plastic Frame: 58 x 40 mm Thickness: 7 mm (battery holder not included)

♦ LCD Display

Screen Size: 49.3 x 22.3 mm Number of Digit: 4 digits Digit Height: about 16.00 mm

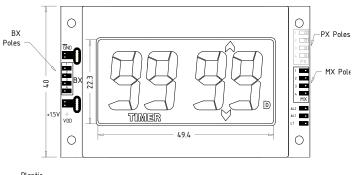
- Button: 4 keys, external connection
- ♦ Power Source: +1.5VDC, external connection
- ♦ Technical Data:

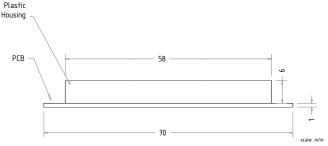
Operating Voltage: +1.20 ~ + 1.70

volts

Typical Current Drain: 3µA in

normal condition; 400 μA at alarm mode Operation Temperature: -10 $^{\sim}$ +50 $^{\circ}C$ Storage Temperature: -20 $^{\sim}$ +60 $^{\circ}C$



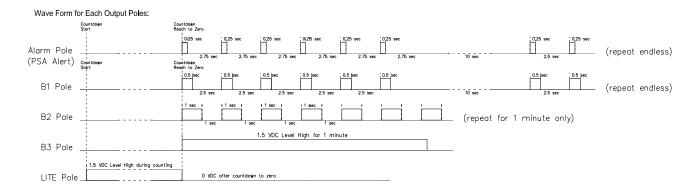


Applications

Output Poles:

- a. AL1: Audible alarm output, direct from MCU after countdown to zero , 4 K Hz for 1 minute (or PSEA alert, beep 6 times, then wait for 10 seconds and repeat)
- b. AL2: The collector pole of NPN (2N3904), which base is connected to AL1.
- c. B1 Pole: After counting to zero, delivers 2.5 sec "OFF", 0.5 sec "ON" for 6 times, then wait for 10 sec and repeat again. Never stop unless "Stop" key is depressed.
- d. B2 Pole: After counting to zero, delivers 1 sec "ON", 1 sec "OFF" for 1 minute.
- e. B3 Pole: After counting to zero, delivers level high (1.5VDC) for 1 minute
- f. B4 Pole: Power "ON" auto-start counting (application details upon request)
- g. LITE Pole: Deliver level high (1.5VDC) signal during counting down or \mbox{up}

Please refer to the following wave chart:



Pins Connections for Keys (MX Poles):

- M1: Connect to 1.5VDC for "Start/Stop" key
- M2: Connect to 1.5VDC for "Up" adjustment
- M3: Connect to 1.5VDC for "Down" adjustment
- M4: Connect to 1.5VDC to erase the display reading

Versions Table

Model No.	Maximum	Resolution	Minimum
	Capacity		Setting Interval
5XT-A0H-MS	99 Min 59 Sec	1 sec	1 Sec
5XT-A0H-HM	99 Hr 59 Min	1 sec after 100 min	1 Min
5XT-A0H-DH	99 Days 23 Hours	1 sec after 100 min	1 Hour
5XT-A0M-MM	9999 Minutes	1 sec after 100 min	1 Minute
5XT-A0M-HH	9999 Hours	1 sec after 100 min	1 Hour
5XT-A0M-DD	9999 Days	1 sec after 100 min	1 Day

Additional Options

- ♦ Option to add count up feature
- ♦ Option to select alert method: one minute alert, Power Saving Endless Alert (PSEA), 4K Hz endless alarm, and/or 30 seconds pace beeping
- ♦ Option to select Power On auto start counting
- ♦ Output poles with various signal for different application

Suffix Code List after Model Number for Options Selected

- 1. Countdown or Count Up: "D" = Countdown only; "U" = Countdown & count up
- 2. Alert Method: "M" = 1 minute aural alert; "P" = Power Saving Endless Alert (PSEA); "A" = 4K Hz Always alert unless "Stop" button depressed; "N" = no alert
- 3. Output Pole: "N" = Non; "O" = Yes, all poles activated; "L" = "LITE" pole only
- 4. 30 seconds pace beeping: add "-s" when selected

Example:

5XT-A0M-DD-UPL

Means: <u>9999 days capacity</u>; <u>countdown & count up</u>; <u>PSEA alert</u>; <u>LITE output pole</u> <u>only</u>