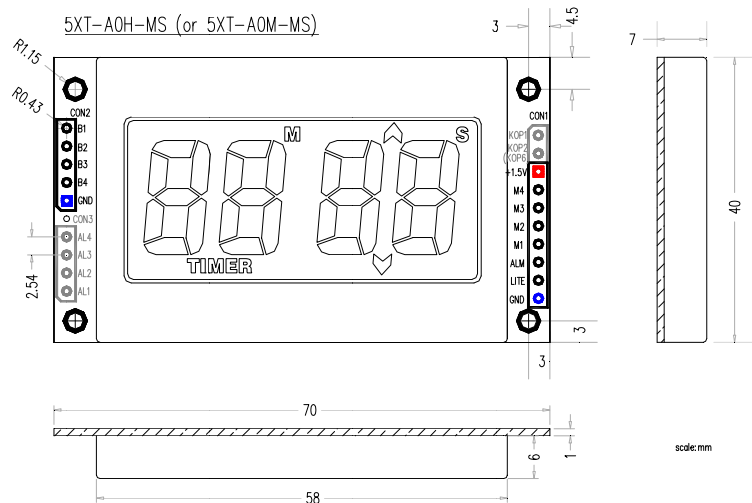


MODULE SPECIFICATION

5XT-A0H-MS Series: 99 Minutes 59 Seconds Countdown Timer Module

Main Features

- 4 keys: Start/Stop, Minute, Second, 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
- External power leads, and keys (solder pads at the edges of PCB)
- Visual Alert: Full LCD screen blinking
- 1 minute alarm normally. However, PSEA (Power Saving Endless Alert) is available upon request
- 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
- ✧ Counting Method: countdown
- ✧ Technical Data:
 - Operating Voltage: +1.20 ~ + 1.70 volts
 - Typical Current Drain: 3μA in normal condition; 400 μA at alarm mode
 - Operation Temperature: -10 ~ +50 °C
 - Storage Temperature: -20 ~ +60 °C

Applications

Output Poles:

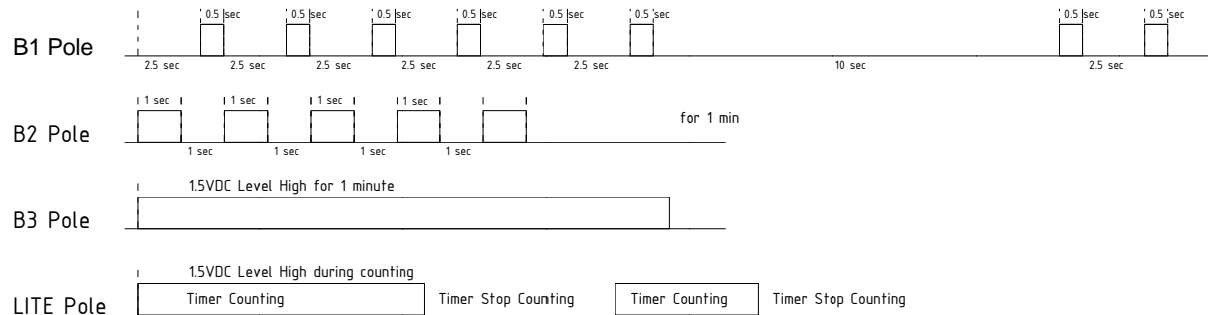
At CON1

- ALM: Piezo alarm output, the collector pole of NPN (2N3904), which base is connected to alarm output of IC. After countdown to zero, 4 K Hz for 1 minute (or PSEA alert, beep 6 times, then wait for 10 seconds and repeat)
- 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.

- c. B2 Pole: After counting to zero, delivers 1 sec “ON”, 1 sec “OFF” for 1 minute.
- d. B3 Pole: After counting to zero, delivers level high (1.5VDC) for 1 minute
- e. B4 Pole: Power “ON” auto-start counting (application details upon request)
- f. LITE Pole: Deliver level high (1.5VDC) signal during counting

Please refer to the following wave chart:

Wave Form for Each Output Poles:



Pins Connections for Keys (MX Poles):

- M1: Connect to 1.5VDC for “Start/Stop” key
- M2: Connect to 1.5VDC for “Minute” adjustment
- M3: Connect to 1.5VDC for “Second” adjustment
- M4: Connect to 1.5VDC to erase the display reading

Versions Table

Model No.	Maximum Capacity	Resolution	Minimum 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 Option Features

- ✧ Option to add count up feature
- ✧ Option to select alert method: 4K Hz one minute alarm, 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” = 4K Hz 1 minute audible alarm; “P” = Power Saving Endless Alert (PSEA); “A” = 4K Hz endless alarm 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-A0H-MS-DMN

*Means: 99 minutes 59 seconds capacity; countdown only; 1 minute audible alarm;
output pole not activated*