

# LE4S Series

## INSTRUCTION MANUAL

## Autonics

Follow Autonics website for the latest information.

**06. Do not disassemble or modify the unit.**  
Failure to follow this instruction may result in fire or electric shock.

Failure to follow this instruction may result in fire or product damage.

- Do not connect two or more timers with only one input contact or transistor simultaneously.
- Keep away from high voltage lines or power lines to prevent inductive noise. In case installing power line and input signal line closely, use line filter or varistor at power line and shielded wire at input signal line.  
Do not use near the equipment which generates strong magnetic force or high frequency noise.
- This unit may be used in the following environments.
  - Indoors (in the environment condition rated in 'Specifications')
  - Altitude max. 2,000 m
  - Pollution degree 2
  - Installation category II

01) If no key is pressed over 60 sec, returning to RUN mode and not storing the setting value.  
02) Only for the LE4SA model

- [Table]

| Unit    | SEC              | SEC             | SEC            | SEC         | M S            | M              | M           |
|---------|------------------|-----------------|----------------|-------------|----------------|----------------|-------------|
| Display | 9.999            | 99.99           | 999.9          | 9999        | 99m59s         | 999.9m         | 9999m       |
| Range   | 0.001s to 9.999s | 0.01s to 99.99s | 0.1s to 999.9s | 1s to 9999s | 0m1s to 99m99s | 0.1m to 999.9m | 1m to 9999m |

  

| Unit    | H M            | H               | H              | H           |
|---------|----------------|-----------------|----------------|-------------|
| Display | 99h59m         | 99.99h          | 999.9h         | 9999h       |
| Range   | 0h1m to 99h59m | 0.01h to 99.99h | 0.1h to 999.9h | 1h to 9999h |

| Model                   | LE4S                                                                                                  | LE4SA                   |
|-------------------------|-------------------------------------------------------------------------------------------------------|-------------------------|
| Power supply            | 24 - 240 VAC ~ ± 10% 50 / 60 Hz, 24 - 240 VDC ± ± 10%                                                 |                         |
| Power consumption       | AC: ≤ 4.5 VA, DC: ≤ 2 W                                                                               | AC: ≤ 4 VA, DC: ≤ 1.6 W |
| Insulation resistive    | 100 MΩ (500 VDC = megger)                                                                             |                         |
| Dielectric strength     | 2000 VAC ~ 50 / 60 Hz for 1 min                                                                       |                         |
| Noise immunity          | ± 2 kV square-wave noise by noise simulator (pulse width 1 μs)                                        |                         |
| Vibration               | 0.75 mm double amplitude at frequency of 10 to 55 Hz (for 1 min) in each X, Y, Z direction for 1 hour |                         |
| Vibration (malfunction) | 0.5 mm double amplitude at frequency of 10 to 55 Hz (for 1 min) in each X, Y, Z direction for 10 min  |                         |
| Shock                   | 300 m/s <sup>2</sup> (≈ 30 G) in each X, Y, Z direction for 3 times                                   |                         |
| Shock (malfunction)     | 100 m/s <sup>2</sup> (≈ 10 G) in each X, Y, Z direction for 3 times                                   |                         |
| Relay life cycle        | Mechanical: ≥ 10,000,000 operations<br>Electrical: ≥ 100,000 operations                               |                         |
| Ambient temperature     | -10 to 55 °C, storage: -25 to 65 °C (no freezing or condensation)                                     |                         |
| Ambient humidity        | 35 to 85 %RH, storage: 35 to 85 %RH (no freezing or condensation)                                     |                         |