

LCD

Digital Timers

LE4S Series



Features

- Mounting space saving with compact design: downsized by approx. 22 % in depth compared to existing models (length of panel on the back side is 56 mm)
- Available to set each value and time range separately when choosing Flicker (FK, FK I) or ON-OFF Delay (ON OFF D, ON OFF D I) output mode
- Adds Flicker 1 mode (LE4SA)
- Settable One-shot output time (0.01 to 99.99 sec) (existing model: fixed 0.5 sec)
- Configurable time range (added 9.999 sec): settable by 0.001 sec unit
- Selectable min. input time: 1 ms or 20 ms (LE4S)
- Improved return time: 100 ms
- Backlight ON / OFF function
- Wide time range (0.01 sec to 9999 hour)
- Lock setting function for saving setting data
- Soft touch setting
- High visibility display with backlight

Specifications

Model		LE4S	LE4SA
Function		MULTI time, MULTI operation	
Display method		LCD (Backlight)	
Return time		≤ 100 ms	
Time operation		Signal ON Start	Power ON Start
Input signal		START, INHIBIT, RESET	
Min. signal width		≈ 1, 20 ms	-
No-voltage input		Short-circuit impedance: ≤ 1 kΩ Short-circuit residual voltage : ≤ 0.5 VDC≡ Open-circuit impedance: ≥ 100 kΩ	-
Control output		Relay	
Contact type		Time limit SPDT (1c)	Time limit DPDT (2c), Time limit SPDT (1c) + Instantaneous SPDT (1c) (depends on operation mode)
Contact capacity		250 VAC~ 5 A, 30 VDC≡ 5 A resistive load	250 VAC~ 3 A, 30 VDC≡ 3 A resistive load
Error	Repeat	Power ON Start	≤ ± 0.01% ± 0.05 sec
	SET	: ≤ ± 0.01% ± 0.05 sec	
	Voltage	Signal ON Start : ≤ ± 0.005% ± 0.03 sec	
	Temp.		
Approval		CE  ENEC	
Unit weight		≈ 98 g	

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 ² (≈ 30 G) in each X, Y, Z direction for 3 times	
Shock (malfunction)		100 m/s ² (≈ 10 G) in each X, Y, Z direction for 3 times	
Relay life cycle		Mechanical: ≥ 10,000,000 operations 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)	



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