Daily Time Switch

H5L

Easy Programming with Large LCD Display and Interactive Functions

- Programming for 24 hrs x 7 days using just five switches.
- Twenty-four program steps available.
- Power supply freely selectable from 100 to 240 VAC.
- 15 A control outputs from first and second circuits.
- Manual ON/OFF switching for control output without changing the program.
- Memory protection during power failure for up to 10 years.
- Cycle operation possible.
- Multiple-day operation.
- Surface, flush, or track mounting.

Ordering Information

Wiring	Backup power supply function for memory protection	No. of program steps	Model
Screw terminals	Provided (approx. 10 years at 25°C)	24 (Each ON or OFF is considered to be one step.)	H5L-A

Specifications

■ Time Ranges

Rated time	Time setting range	Time division
24 hrs x 7 days	00:00 to 23:59	1 min

■ Ratings

Rated supply voltage	100 to 240 VAC (50/60 Hz)
Operating voltage range	85% to 110% of rated supply voltage
Power consumption	Approx. 4 VA at 240 VAC
Control outputs	15 A at 250 VAC, resistive load at 50°C 12 A at 250 VAC, resistive load at 55°C Minimum applied load: 100 mA at 5 VDC (failure level: P, reference value)

■ Characteristics

Accuracy of operating time	±0.01% ±0.05 s max. (see note 1)
Setting error	
Influence of voltage	
Influence of temperature	
Cyclic error	±15 s per month (at 25°C)
Insulation resistance	100 MΩ min.
Dielectric strength	2,000 VAC, 50/60 Hz for 1 min (between current-carrying terminals and exposed non-current-carrying metal parts and between control power supply circuit and contact control output circuits) 1,000 VAC, 50/60 Hz for 1 min (between non-continuous contacts)
Vibration resistance	Destruction: 10 to 55 Hz with 0.75-mm double amplitude Malfunction: 10 to 55 Hz with 0.5-mm double amplitude
Shock resistance	Destruction: 300 m/s^2 (approx. 30G) Malfunction: 100 m/s^2 (approx. 10G)
Ambient temperature	Operating: –10°C to 55°C
Ambient humidity	Operating: 35% to 85%
Life expectancy	100,000 operations min. (15 A at 250 VAC, resistive load)
Approved standards	UL (File No. E52800), CSA (File No. LR22310)
Weight	Approx. 350 g

Note: The overall error, which includes repeat accuracy, setting error, and variations due to changes in voltage and temperature, is ±0.01% or ±0.05 s max. The accuracy of ±0.01% also indicates the error in the time interval of the set time.

Engineering Data

Ambient Operating Temperature and Carry Current

Note that the upper limit of the ambient operating temperature lowers when a large carry current is being applies as shown below.