

DIGITAL 365/7 Day SunSet Time Switch

4, 8 & 12 Zone Astronomic Lighting Control For Energy Code ELC Series



APPLICATIONS

- HVAC equipment, Indoor/Outdoor lighting.
- Meets indoor/outdoor lighting energy code requirements.

FEATURES

- **Scheduling:** 128 time based events allow individual programs for each day of the week at a minimum 1 minute apart. Event types include ON, OFF, Duration, or Duty Cycle.
- **Sensor Event:** 32 sensor driven events allow individual programs for each day of the week.
- **SunSet Astronomic:** Adjusts daily to changes in sunset times. Adjustable 10° - 70° Northern or Southern latitudes. Settings can be offset from both sunset and sunrise times.
- **Universal Input:** 8 inputs may be assigned to any channel. ELC74 includes 4.
- **Switched Input:** Accepts unpowered contact closure from optional momentary or maintained switch for a timed override.
- **Photosensor Input:** Accepts input from optional sensor. EPC-LC (indoor/outdoor) has a range from 0 - 250 foot-candels.
- **Momentary Contact:** May be configured for momentary ON/OFF operation to control latching contactors. The ELC74 operates as a two channel unit. The ELC78 operates as a four channel unit. The ELC712 operates as a six channel unit.
- **Holidays:** 26 holidays may be set using 10 individual dates, 10 month type (last Monday in May), or 6 specific holidays with one of 3 independent holiday schedules.
- **Block Holiday:** 10 holiday blocks can be set for individual days or for duration of any number of days and may use one of 3 holiday schedules.
- **Pulse/Time Duration:** 4 different ON settings from 1 second to 23 hours, 59 minutes, 59 seconds.
- **Duty Cycle:** 4 different ON and OFF patterns from 1 second to 23 hours, 59 minutes, 59 seconds.
- **Daylight Saving:** Automatic adjustment (can be omitted).
- **Leap Year:** Automatic Compensation.
- **Remote Override:** Universal input may be programmed for timed override from a momentary or maintained dry contact switch.
- **Manual Override:** Keyboard button control until the next regularly scheduled ON or OFF, automatic operation then resumes.
- **Staggered Start:** Optional stagger up time between channels, after a power outage; selectable from 5 seconds, 15 seconds, 30 seconds, 1 minute, 5 minutes, 10 minutes, and 15 minutes.
- **Clock Format:** AM/PM or 24 hour format.
- **Power Outage Backup:** The program and time of day are maintained for a minimum of 2 days by means of a capacitor. After two days, a lithium battery takes over and provides a minimum accumulated time of 1 year. The lithium battery should provide over 10 years of protection.
- **Standards:** Listed UL916.

SPECIFICATIONS

- **Timing Accuracy:** Line frequency.
- **Input Voltage:** 24/120/208-240/277VAC, 50/60Hz.
- **Terminal Range:**
#10 - #16AWG for line input.
#10 - #16AWG for load output.
#14 - #22AWG universal input.
- **Operating Temperature:** -20 °F to +140 °F (-29 °C to +60 °C).
- **Power Consumption:** 10VA Maximum.
- **Enclosure:** Metal Indoor NEMA 1 with lockable hasp. (See Pages 464-468 For Dimensions).

WIRING DIAGRAMS

- See Pages 377-388 For Diagrams.



CAT. NO.	UPC CODE	INPUT SUPPLY (VAC) 50/60Hz	NO. OF CHANNELS	OUTPUT CONTACTS
ELC74	82523	24/120/208-240/277	4	SPDT
ELC78	82524	24/120/208-240/277	8	SPDT
ELC712	82525	24/120/208-240/277	12	SPDT
EPC-LC	82233	Accessory Photo Sensor	—	—
LCS115M	82082	Accessory Momentary Switch	—	SPST

TYPE	VOLTAGE (VAC)	RATING	
		NO	NC
General Purpose	24/120 - 277	20A	15A
Ballast	120-277	20A	20A
Tungsten	120-277	5A	—
Pilot Duty	120-240	470VA	275VA
Motor	120 208-277	1HP 2HP	1/4HP 1/2HP
Electronic Ballast (LED)	277	16A	—