

# DIGITAL

## 365/7 Day SunSet Time Switch

1 & 2 Zone Astronomic Lighting Control For Energy Code  
DGLU & DGLC Series



### APPLICATIONS

#### INTERIOR LIGHTING

- Open office lighting, hallways.
- Meeting and sales areas, stock room and warehouses.

#### EXTERIOR LIGHTING

- Signage and store windows.
- Security, parking lots.

### FEATURES

- **Scheduling:** 56 ON & OFF set points provide individual programs for each day of the week. Minimum setting is 1 minute.
- **Sunset Astronomic:** Adjusts daily to changes in sunset times. Adjustable 10° - 60° Northern or Southern latitudes. Can be individually offset +/- 1-240 minutes from both sunset and sunrise times.
- **Photosensor Input:** Unique push button set-up assures accurate operation with automatic calibration that adjusts for wire size and distance. EPC-A photo sensor is included with the DGLC-A and may be ordered as an option for use with model DGLU100A & DGUM100A.
- **Light Level Activation:** Turn ON is user settable from 1 to 100 footcandle; Turn OFF is a maximum of 2 times turn ON level. Each channel has an independent setting. Includes a user settable delay before ON and OFF between 1 – 90 seconds.
- **Remote Override On:** Each channel has independent input for a maintained dry-contact closure. May use TORK model SS410 and TRP-24B for timed override. May use with occupancy sensor with dry contacts as override.
- **Manual Override:** Until the next regularly scheduled ON or OFF, automatic operation then resumes.
- **Momentary Contact - DGUM100A:** 2 second contact closure ON & OFF to control mechanically held contactors or latching relays.
- **Block Holiday:** 9 holiday blocks can be set for individual days or for duration of any number of days.
- **Daylight Saving:** Automatic adjustment (can be omitted).
- **Leap Year:** Automatic Compensation.
- **Clock Format:** AM/PM or 24 Hour format.
- **Power Outage Backup:** Permanent schedule retention. Supercapacitor provides 7 days of real time backup.
- **Standards:** Listed UL916.
- **Enhanced Switching:** Inrush current limiting technology protects relay contacts for extended life with zero cross type switching.

### SPECIFICATIONS

- **Timing Accuracy:** Line Frequency.
- **Input Voltage:** 120-277VAC, 50/60Hz (auto detection).
- **Terminal Range:**  
#12 - #18AWG for line/load.  
#18 - #26AWG sensor/switch input.
- **Operating Temperature:** -31 °F to +131 °F (-35 °C to +55 °C).
- **Power Consumption:** 6VA Max.
- **Enclosure:**  
- Noryl® Indoor/Outdoor NEMA 3R.  
- Suffix -NC Noryl® Indoor/Outdoor NEMA 3R with clear Lexan® cover.  
- Suffix -Y metal Indoor enclosure NEMA 1.  
- All with lockable hasp. (See Pages 464-468 For Dimensions).

### WIRING DIAGRAMS

- See Pages 377-388 For Diagrams.

DGLU100A



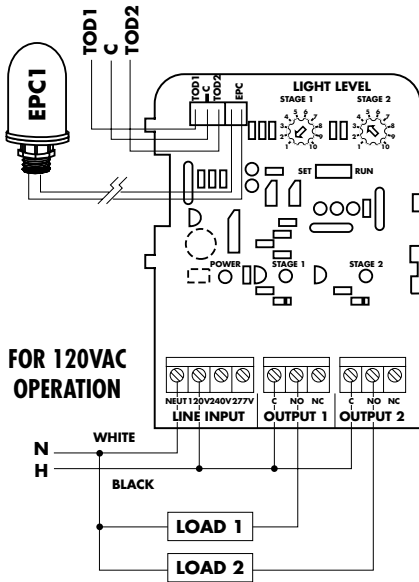
| CAT. NO.    | UPC CODE | INPUT SUPPLY (VAC) 50/60Hz | NO. OF CHANNELS        | OUTPUT CONTACTS   |
|-------------|----------|----------------------------|------------------------|-------------------|
| DGLU100A-Y  | 82211    | 120-277                    | 1                      | DPDT              |
| DGUM100A*   | 82212    | 120-277                    | 1                      | SPDT<br>Momentary |
| DGUM100A-Y* | 82224    | 120-277                    | 1                      | SPDT<br>Momentary |
| DGLC100A-NC | 82223    | 120-277                    | 1                      | DPDT              |
| DGLC200A-NC | 82213    | 120-277                    | 2                      | SPDT              |
| EPC-A       | 82112    | Accessory Photo Sensor     | —                      | —                 |
| SS410       | 14033    | 24VAC/24VDC                | —                      | SPDT              |
| TRP-24B     | 98225    | 120/277                    | Transformer Power Pack | SPST              |

\*No Electronic Ballast (LED) Rating

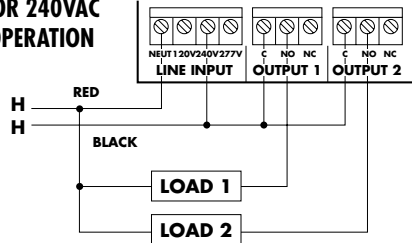
| TYPE                     | VOLTAGE (VAC) | RATING |       |
|--------------------------|---------------|--------|-------|
|                          |               | NO     | NC    |
| Resistive                | 24-277        | 20A    | 10A   |
| Ballast                  | 120-277       | 20A    | 10A   |
| Tungsten                 | 120           | 15A    | —     |
| Pilot Duty               | 120           | 720VA  | 290VA |
|                          | 240           | 720VA  | 360VA |
| Motor                    | 120           | 1HP    | 1/4HP |
|                          | 240           | 2HP    | 1/2HP |
| Resistive                | 28VDC         | 20A    | 10A   |
| Electronic Ballast (LED) | 277           | 16A    | —     |

# DIGITAL Wiring Diagrams

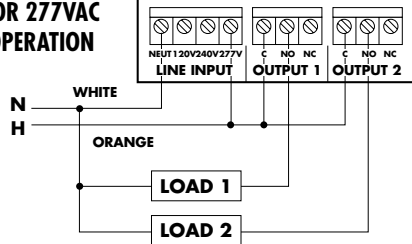
LC2000 Series



FOR 240VAC OPERATION

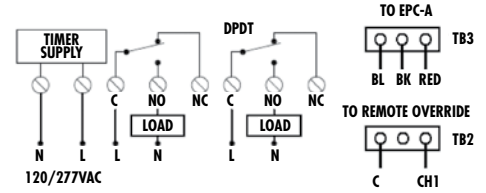


FOR 277VAC OPERATION

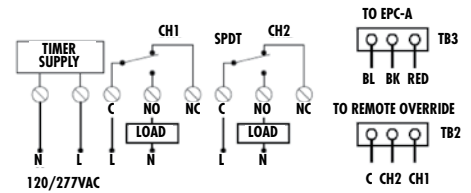


DGLC Series

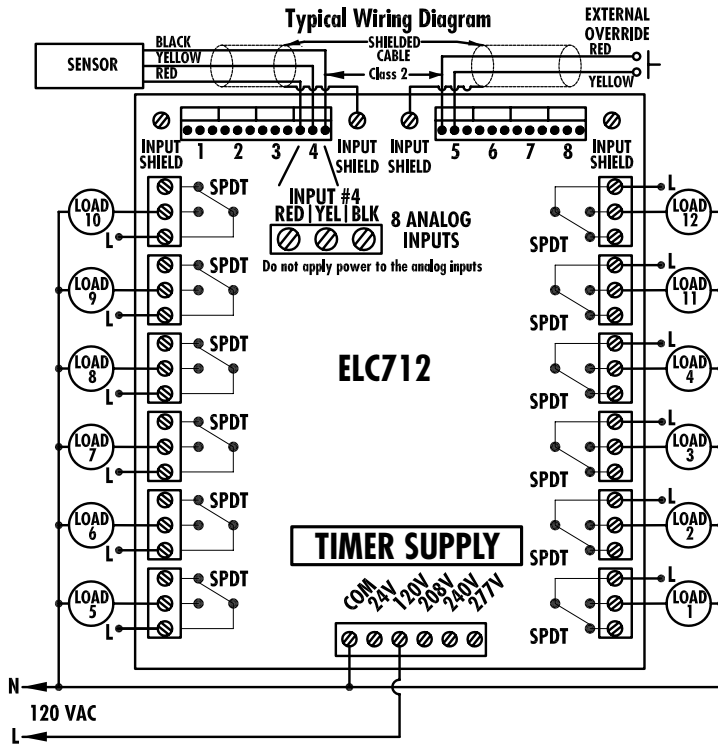
DGLC100A



DGLC200A

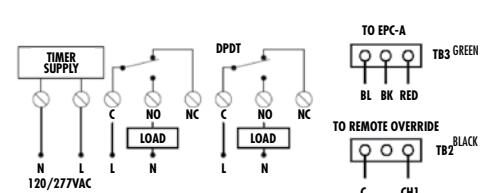


ELC Series



DGLU Series

DGU100A



DGUM100A

