

Cost-effective pre-assembled lighting relay panel featuring IEC DIN-rail block contactors and optional programmable timeclock, HOA switch, photocell, and BACnet integration. Ideal for budget-conscious projects requiring reliable lighting control in commercial and industrial applications.

KEY FEATURES

- ✓ Plug & play, pre-assembled lighting relay panel
- ✓ Programmable digital 24-hour 7-day timeclock with battery backup (optional)
- ✓ IEC DIN-rail block contactors, 600V rated, 30A per pole
- ✓ 3 to 12 poles in 3-pole increments
- ✓ Steel lockable NEMA 1 or NEMA 3R enclosure
- ✓ Ambient operating temperature range -40°F to +131°F
- ✓ Enclosure dimensions 16H x 12W x 6D inches
- ✓ Screw terminal connections accept 14-8 AWG solid or stranded 75°C copper wire
- ✓ Optional exterior photocell accessory
- ✓ Optional BACnet integration for building automation
- ✓ All components UL listed

SPECIFICATIONS

Enclosure Material	Galvanized steel	Current Rating	30A per pole
Enclosure Rating	NEMA 1 (indoor) or NEMA 3R (outdoor/weatherproof)	Pole Count	3, 6, 9, or 12 poles
Enclosure Dimensions	16H x 12W x 6D inches	Coil Voltage	120VAC standard; 277VAC or 24VAC optional
Contactor Type	IEC DIN-rail block contactors	Wire Range	14-8 AWG solid or stranded 75°C copper
Voltage Rating	600V	Operating Temperature	-40°F to +131°F (-40°C to +55°C)

DIMENSIONS

Height:	16 in (406mm)
Width:	12 in (305mm)
Depth:	6 in (152mm)

MOUNTING

Surface mount to wall or backboard. NEMA 1 units for indoor dry locations only. NEMA 3R units rated for outdoor or wet locations. Maintain adequate clearance for door swing and service access.

ORDERING INFORMATION

Part Number	Description
CTRL-ECO-03POLE-NEMA1	3 Pole, NEMA 1 Indoor, Base
CTRL-ECO-06POLE-NEMA1	6 Pole, NEMA 1 Indoor, Base
CTRL-ECO-09POLE-NEMA1	9 Pole, NEMA 1 Indoor, Base
CTRL-ECO-12POLE-NEMA1	12 Pole, NEMA 1 Indoor, Base
CTRL-ECO-03POLE-NEMA3R	3 Pole, NEMA 3R Outdoor, Base
CTRL-ECO-06POLE-NEMA3R	6 Pole, NEMA 3R Outdoor, Base
CTRL-ECO-09POLE-NEMA3R	9 Pole, NEMA 3R Outdoor, Base
CTRL-ECO-12POLE-NEMA3R	12 Pole, NEMA 3R Outdoor, Base

UL Listed Components

NEMA 1 / NEMA 3R

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WIRING DIAGRAMS

Wiring Diagrams

- Wiring diagram illustrates order code CTRL-ECO-12-NEMA1-HOA-TMCLK-PHCL which utilizes the full combination of a photo cell, time switch, HOA override switch, and lighting contactors.
- If HOA switch is not included, connect normally open output (5) of time switch directly to lighting contactor coil (A1).
- If photo cell is not included, connect time switch common input (3) directly to line supply (1).
- If time switch and HOA Switch are not included, connect photo cell output (Red) directly to lighting contactor coil (A1).

Photo Cell, Time Switch, HOA Switch

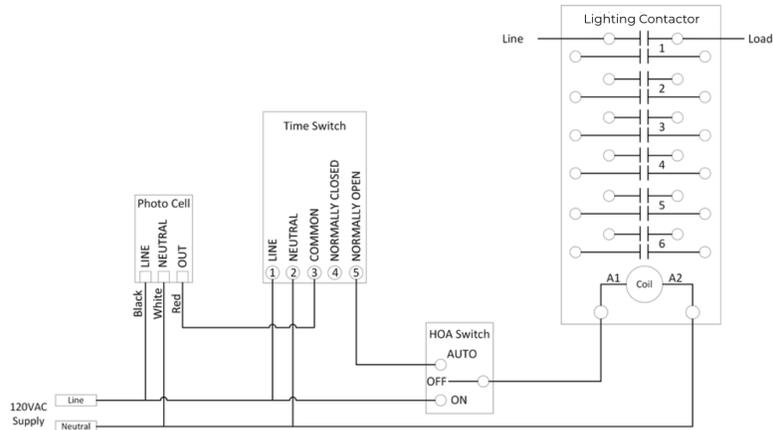
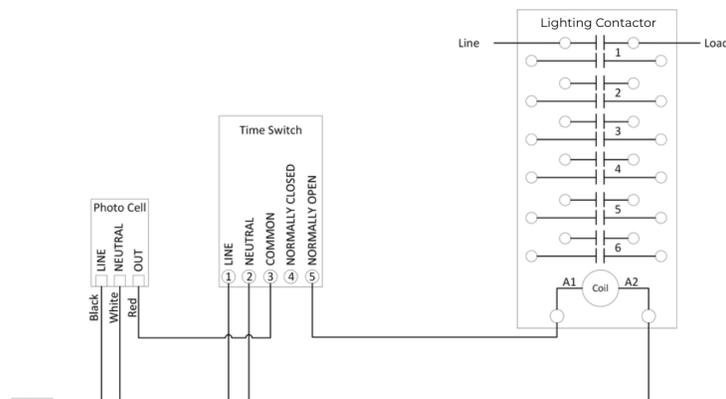


Photo Cell, Time Switch



Wiring Diagrams

Time Switch

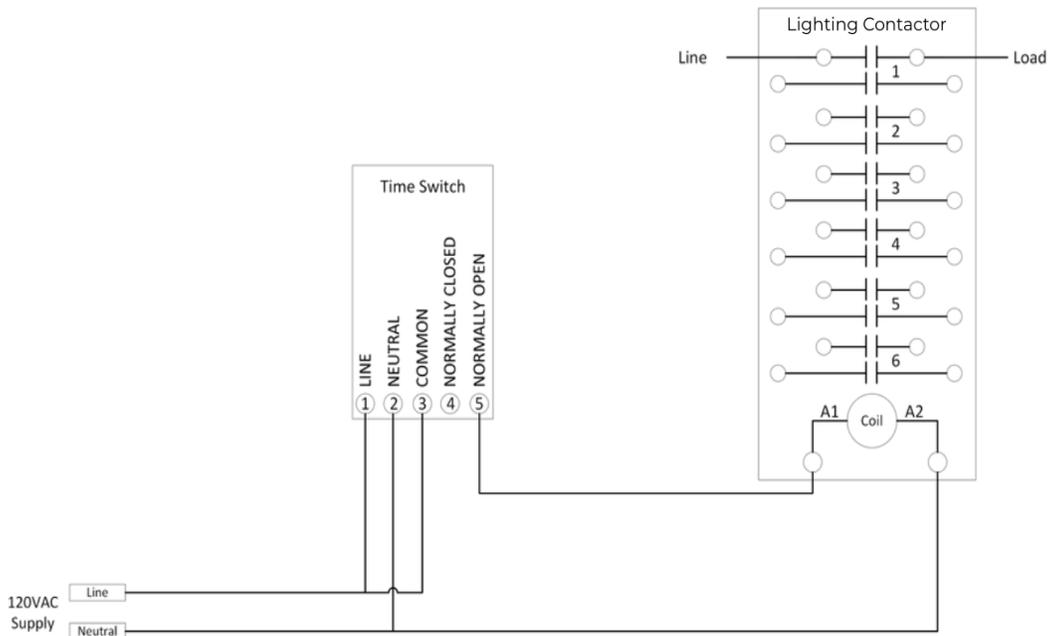
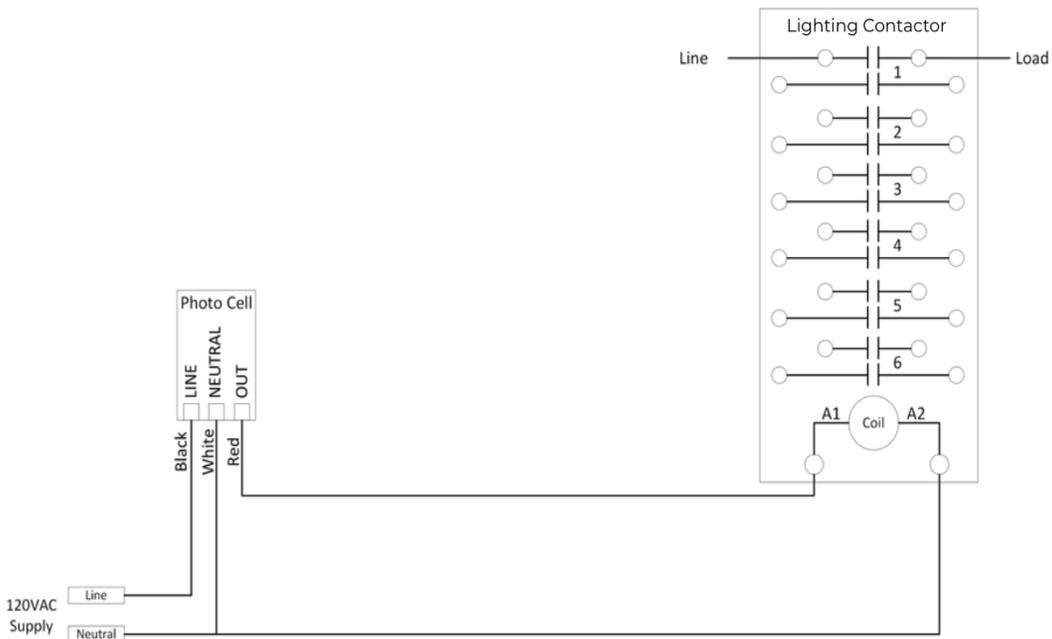


Photo Cell



Programming the Timeclock

Buttons (remember this pattern)

- SET – Step through menus / exit.
- ENTER – Select / confirm.
- UP / DWN – Change values (time, day, mode).

Think: SET → UP/DWN → ENTER.

1. Set Clock & Calendar (do this once)

1. Power the timer.
2. Press SET until display prompts to set TIME/CALENDAR.
3. Press ENTER, then use UP/DWN + ENTER to set:
 - Month / Day / Year
 - Day of week
 - Time (24-hour)
4. Continue with SET to find DS/ST; choose DS (Daylight Savings) or ST (Standard Time), ENTER.

2. Program a Basic ON / OFF Schedule (e.g., M–F 08:00–17:00)

A. ON event

1. Press SET until SET EVENT appears, then ENTER.
2. Event #1 shows. Move cursor to mode, choose ON, ENTER.
3. Set day/block:
 - Use UP/DWN to pick MO, then adjust to FR for a Mon–Fri block (start → end).
4. Set time to 08:00, ENTER.

B. OFF event

1. Press SET to return to SET EVENT, ENTER to go to Event #2.
2. Mode = OFF, ENTER.
3. Same MO–FR block, time 17:00, ENTER.

3. Program a Pulse (Momentary) Event

1. Go to SET EVENT, select next free event.
2. Mode = PL (Pulse), ENTER.
3. Set pulse time 1–15 s with UP/DWN, ENTER (default 1 s if you skip).
4. Set day and time like any event, ENTER.

4. Quick Edits / Wipe

- Edit / Disable single event
 - Go to SET EVENT → ENTER, scroll to event #.
 - Change mode (ON/OFF/PL) or set mode to DIS to disable, ENTER.
- Clear ALL events

1. Press SET until CLEAR MEMORY prompt.

2. ENTER, ENTER, then UP to confirm.

5. “First Man In” (FM) Input – Simple Use

- When FM terminal is tied to negative (–), schedules are effectively held until that input changes state; used where first arrival in the morning overrides the normal time schedule.
- the next programmed event.