# Submittal Data

**TCS Basys Controls®**

## SL2108
Eight Channel Lighting Control Module

## Description

The SL2108 is a microprocessor based lighting control module designed to control up to eight lighting channels.

**The SL2108 features:**

- Stand-alone or network operation
- 365-day programming for each circuit
- Analog inputs for photo sensors with the ability to remotely adjust sensitivity level
- Analog input for energy consumption
- Digital photocell inputs
- Astronomical clock
- Remote or local override of each circuit
- External time clock or occupancy sensor input for each circuit
- LEDs for monitoring status
- No battery required for control parameters, schedules or clock
- Vanishing holidays
- End of occupancy blink warning
- Selectable normally open or normally closed relay outputs

## Specifications

### General
**Accuracy**: +/- 0.5%
**Programming**: EIA RS485 interface
**Communications**: RS485, half duplex
**Memory backup**: Non-volatile EEPROM, no battery required

### Environmental
**Operating temperature**: 32 to 131°F (0 to 55°C)
**Operating humidity**: 0 to 100% RH, non-condensing
**Storage temperature**: 14 to 140°F (-10 to 60°C)

### Electrical
**Supply voltage**: 24 VAC, +/-20%
**Inputs**: eight momentary override, eight digital (dry contact), and two selectable 0 to 5 VAC or 4 to 20 mA DC analog
**Outputs**: ten digital (SPST dry contact, 24VAC @ 2A) configurable
**Analog input impedance**: 250 $\Omega$
**Common mode rejection**: 100 db @ 60 Hz
**Power consumption**: 15 VA max.

Specifications subject to change without notice.

# Specification Suggestions

Microprocessor-based lighting controllers shall be of the low voltage type.

Each lighting controller shall be a 365-day device with eight individually timed circuits. Each circuit shall accept a digital input for photocells or override switches which can be used with the internal clock to turn the circuit on and off, as specified by its mode. Lighting channels shall have blink option for end of occupancy warning. Each channel shall have the capacity for programming two on events per day and twelve assignable holiday periods of up to 99 days each with option for vanishing holidays. Each lighting controller shall have automatic standard and daylight savings adjustment, as well as leap year correction. Each controller shall have its schedule and programmed parameters stored in non-volatile memory. Lighting controller shall accept analog input for photo sensor that can be used independently with each channel for light level control. Lighting controller shall accept analog input for power demand transducer that can be associated with any channel. Each channel shall have the ability to turn off and on based on demand input. Controller shall have option for normally open or normally closed relays. Lighting controller shall contain longitude and latitude settings to control each channel based on astronomical time setting. Controller must support non-volatile memory, so that in the event of power loss, all programmed operating parameters shall be unaffected without the use of battery backup. All control functions shall continue in the event of a communications failure.
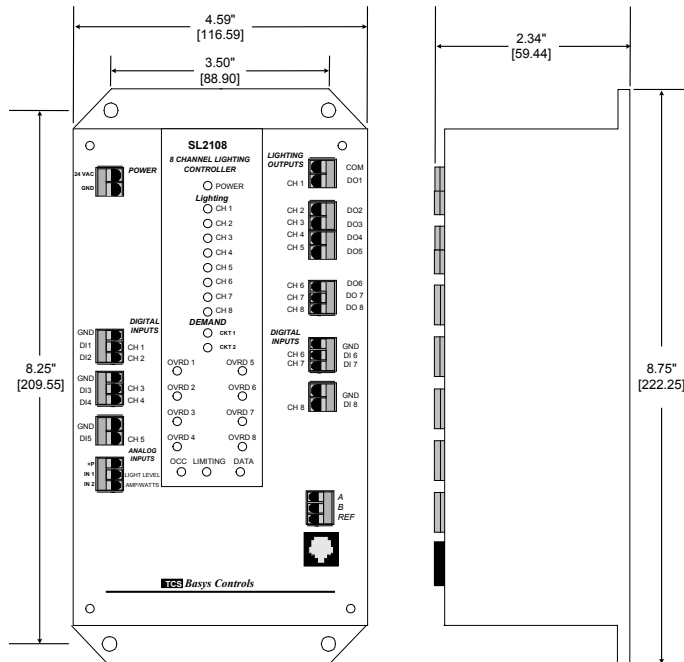
Communications protocol shall be provided in accordance with EIA RS485 standards. All firmware communications protocol and command codes shall be published, open and non-proprietary. Lighting control modules shall be model SL2108 as manufactured by TCS/Basys Controls.

# Ordering Information

| Part # | Description |
| --- | --- |
| SL2108 | Eight channel lighting control module |
| | **SL2108 Accessories** |
| PE Series | Power meters and transducers |
| PO Series | Occupancy Sensors |
| PL Series | Photocell and light sensors |
| QD1010 | RS232 to RS485 communications converter (required for programming) |
| REVPRO | Revelation Professional software (required for programming) |
| PT Series | Control transformers |

# Dimensions  Note: inches [mm]

SL2108