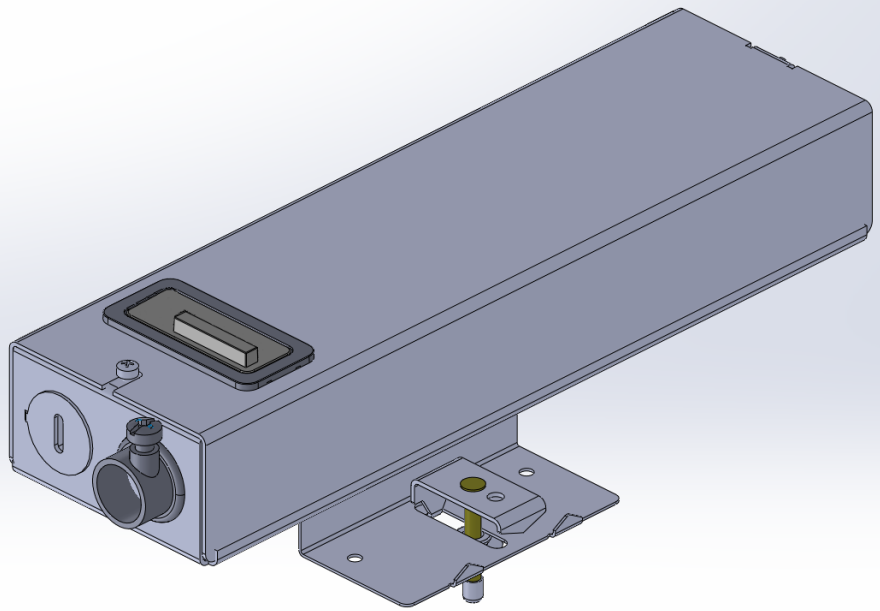


PHILIPS

SWCS-RADIO

Controller 0-10V



Specification Sheet

SWCS-RADIO

Wireless Load Controller with 0-10V

A 0-10V load controller that supports switching, dimming, energy metering, and wireless connectivity to other Interact ready devices.

SWCS-RADIO

Features

- Load switching with zero-crossing technology for up to 1270 Watt
- Load control via 0-10V control output
- Linear dimming curve matches standard Philips Advance Xitanium drivers
- Wireless Zigbee and Bluetooth radio for compatibility with Interact
- Fast setup and configuration through the Interact application
- Plenum rated housing for connection to junction box
- Energy metering and reporting, accessible upon installing a compatible gateway

Benefits

- Wireless communication with Interact
- Easily configure your lighting groups and zones to adapt to your room layouts
- Lower installation cost and eliminate the wiring between the dimming switch and the controller

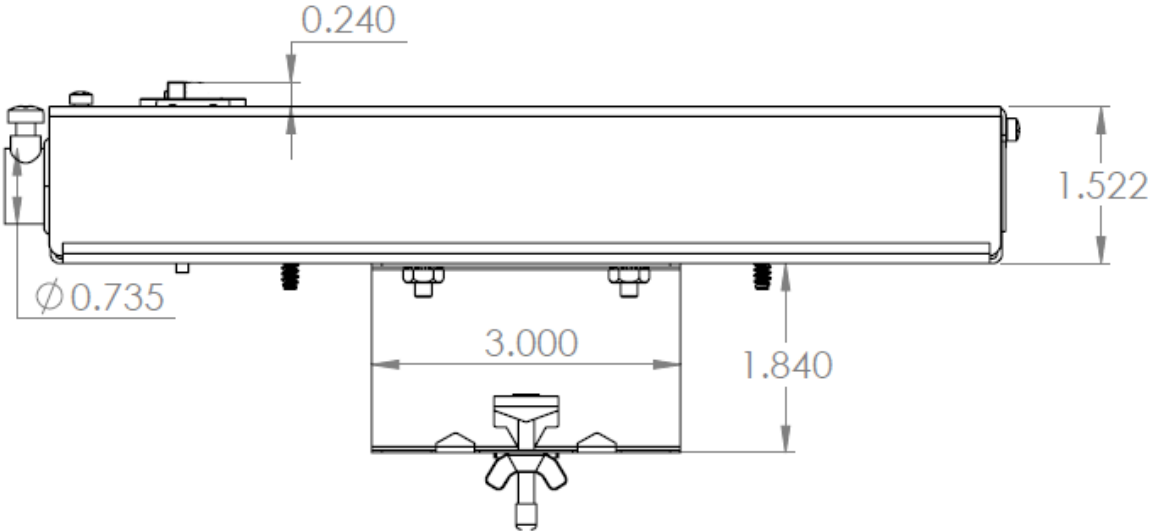
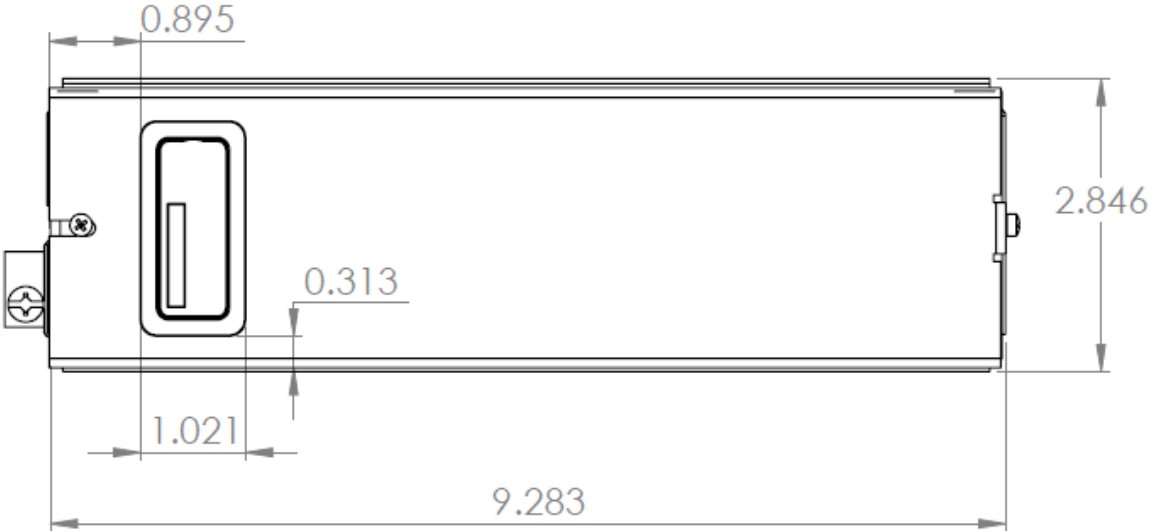
Applications

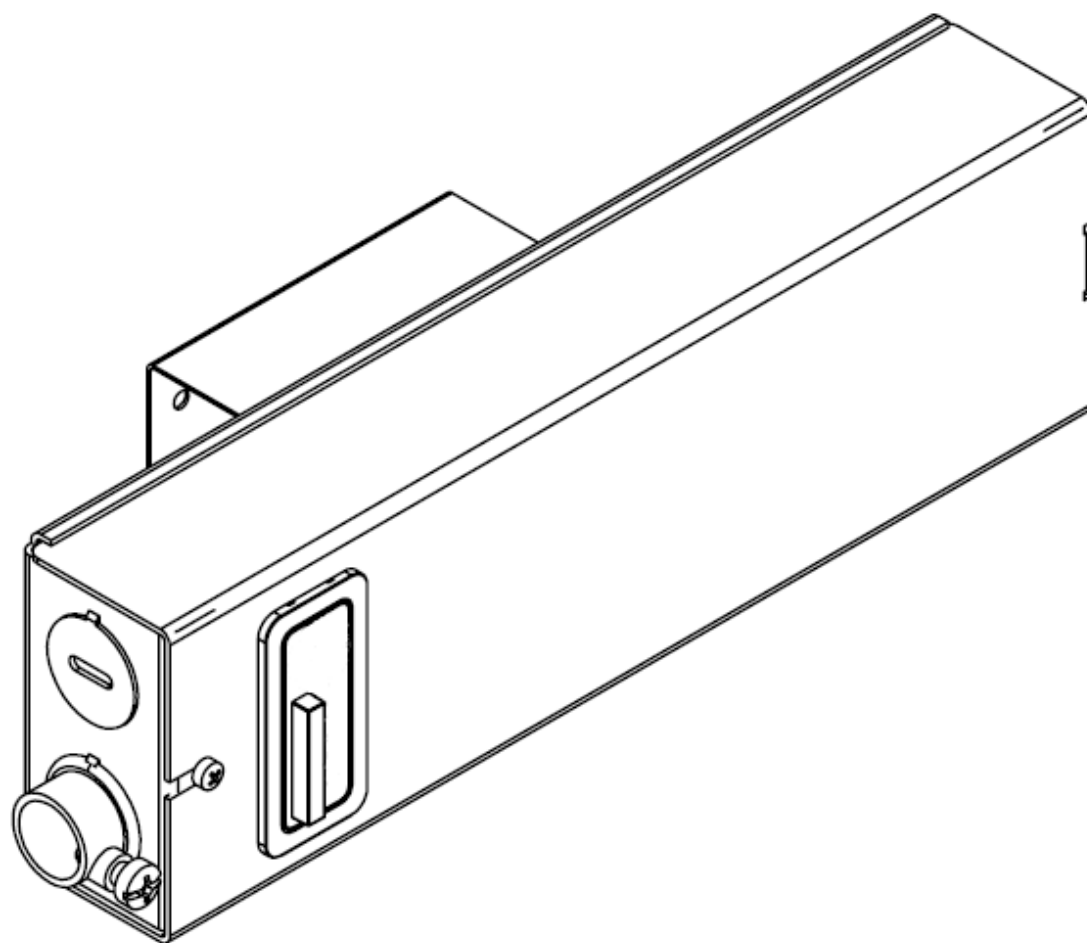
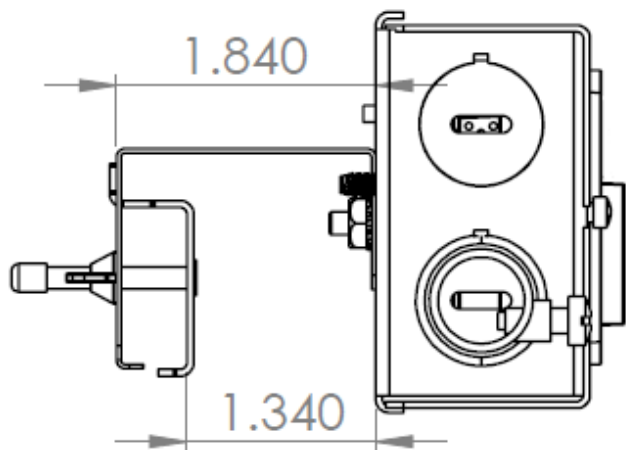
The Philips SWCS-RADIO is designed for the Interact lighting system to control loads with the full range of Philips Advance Xitanium 0-10V dimming drivers.

Primary use cases are:

- 1) for switching light loads up to 1270 Watt.
- 2) for use with multiple 0-10V drivers where per-fixture control is either not desired or not practical. In such application, the SWCS-RADIO aggregates all drivers and controls and monitors them as one group.

Dimensional Drawing





Number of connected drivers per SWCS-RADIO

| Driver | | Input Voltage | # Drivers |
|-----------|-----|---------------|-----------|
| Downlight | 13W | 120 | 32 |
| | | 277 | 40 |
| | 25W | 120 | 17 |
| | | 277 | 30 |
| | 36W | 120 | 12 |
| | | 277 | 22 |
| | 50W | 120 | 8 |
| | | 277 | 15 |
| | 75W | 120 | 5 |
| | | 277 | 10 |
| Linear | 20W | 120 | 20 |
| | | 277 | 36 |
| | | 347 | 36 |
| | 40W | 120 | 11 |
| | | 277 | 19 |
| | | 347 | 19 |
| | 54W | 120 | 8 |
| | | 277 | 14 |
| | | 347 | 15 |
| | 75W | 120 | 5 |
| | | 277 | 10 |
| | | 347 | 10 |
| | 95W | 120 | 4 |
| | | 277 | 8 |
| | | 347 | 8 |

Specifications

| Input Voltage (Vac) | Max. Power (VA) | Max. Current (A) | Max. Losses (W) | Max. Case Temp (°C) | Surge Protection Common/Diff (KV) |
|---------------------|-----------------|------------------|-----------------|---------------------|-----------------------------------|
| 120 | 730 | 6.1 | 1.0 | 70 | 2.5 |
| 208 | 1270 | 6.1 | | | |
| 240 | 1270 | 5.3 | | | |
| 277 | 1270 | 4.6 | | | |
| 347 | 1280 | 3.7 | | | |

Product Data

| Input and Output Information | |
|--------------------------------------|---|
| Inrush current | Per NEMA 410, for max. number of drivers listed |
| Line voltage (AC operation) | 120-347VAC, +/-10% |
| Line current, max. load line | 6.1A @ 120V, 6.1A @ 208V, 5.3A @ 240V, 4.6A @ 277V, 3.7A @ 347V |
| Frequency | 50/60Hz |
| Features | |
| Life @ 70°C | 50,000 hrs (nom) |
| Ambient temp range | -20°C to +60°C |
| Wireless communication frequency | 2.4 Ghz |
| Field configuration | via BLE, parameters set via Interact commissioning app |
| Power reporting accuracy | ±0.9W/±4% |
| Dimming profile | Linear (default 1 – 8V); Programmable |
| Lead wires | 18AWG solid conductor, 8 inches |
| Weight | |
| Environment & Approbation | |
| Agency approbations | UL916, UL2043 (pending), CSA (C22.2 No. 250) |
| Audible noise | 26dB typ. not including start-up; 46dB typ. at start-up |
| EMC (electromagnetic compliance) | Meets FCC 47 Part 15 Class A |
| Environmental protection rating | UL Dry & Damp |
| EMC emission | FCC Part 15 - Subpart B ANSI C63.4-2014 |
| EMC immunity | FCC Part 15 - Subpart B |

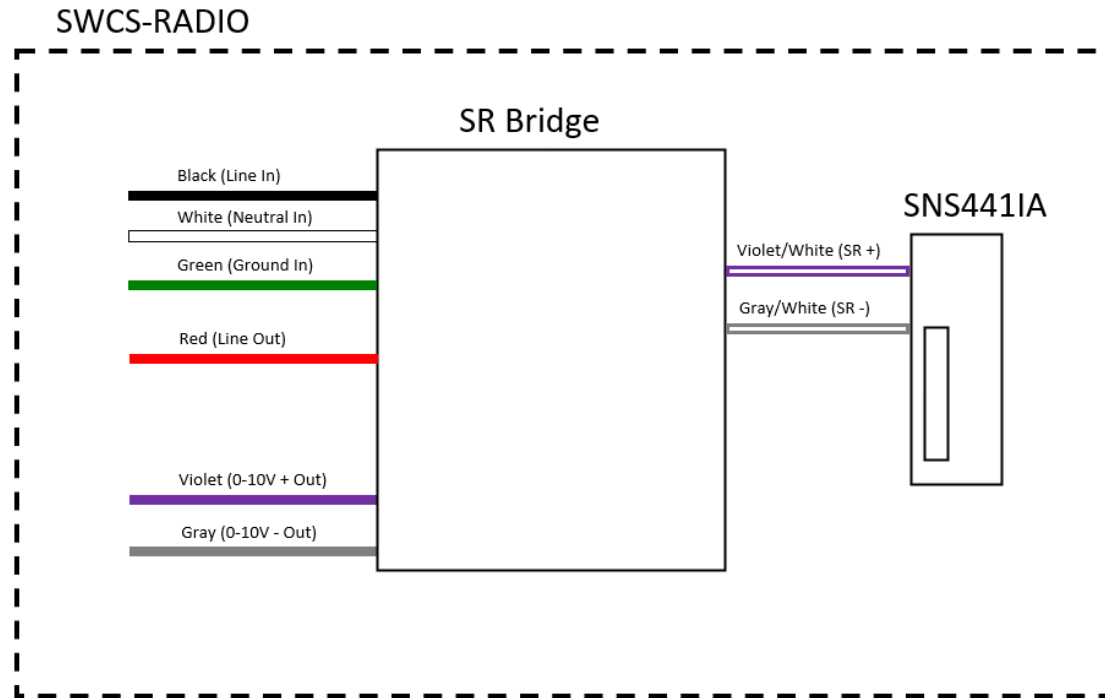
Lightning Surge Info

| ANSI Surge Type | Differential Mode (L-N) | Common Mode (L-G, N-G, L&N-G) |
|-----------------------------------|-------------------------|-------------------------------|
| 100kHz Combination Wave (w/t 30Ω) | >2.5kV | >2.5kV |

Isolation

| Isolation | Line In | Ground | SR | 0-10V | Line Out |
|-----------|--------------|---------|--------------|--------------|--------------|
| Line In | NA | 2xU+1kv | 2.5kv | 2.5kv | Not Isolated |
| Ground | 2xU+1kv | NA | 2xU+1kv | 2xU+1kv | 2xU+1kv |
| SR | 2.5kv | 2.5kv | NA | Not Isolated | 2.5kv |
| 0-10V | 2.5kv | 2.5kv | Not Isolated | NA | 2.5kv |
| Line Out | Not Isolated | 2xU+1kv | 2.5kv | 2.5kv | NA |

Wiring Diagram



Ordering Information

| Ordering Name | MOQ | Ordering Number |
|---------------|-----|-----------------|
| SWCS-RADIO | 1 | 9123 000 00926 |