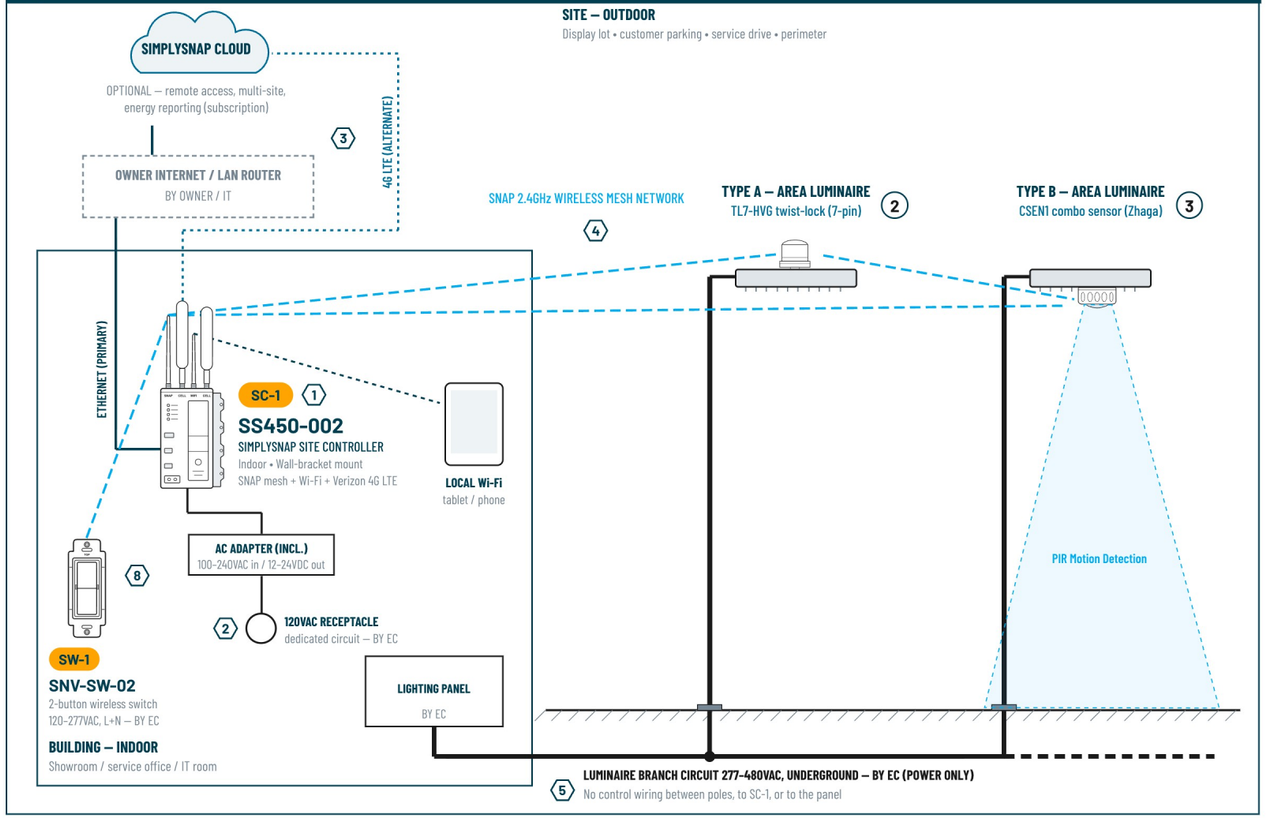
SIMPLYSNAP LIGHTING CONTROLS | AUTO DEALERSHIP

TYPICAL SYSTEM ONE-LINE — SS-450 SITE CONTROLLER WITH TL7-HVG AND/OR CSEN1 LUMINAIRE CONTROLLERS

TYPICAL — FOR SUBMITTAL REFERENCE
NOT FOR CONSTRUCTION

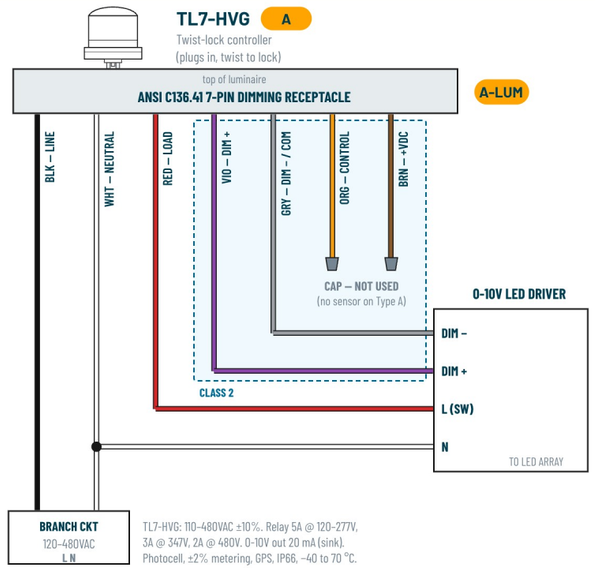
1 SYSTEM ONE-LINE

NTS



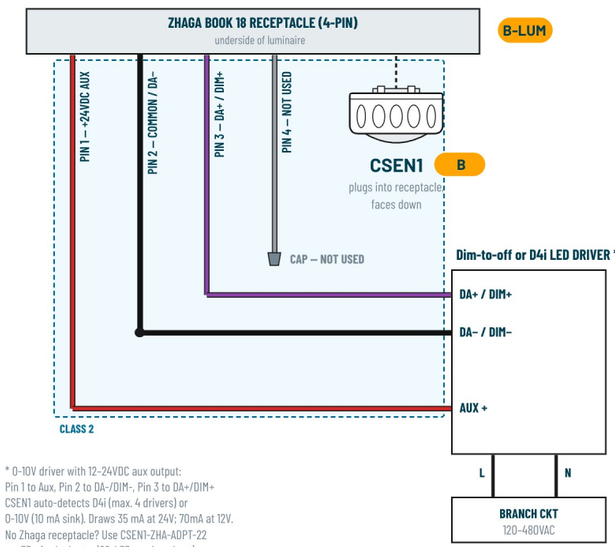
2 TYPE A — TL7-HVG WIRING

ANSI C136.41 7-PIN



3 TYPE B — CSEN1 WIRING

ZHAGA BOOK 18



* 0-10V driver with 12–24VDC aux output:
Pin 1 to Aux, Pin 2 to DA-/DIM-, Pin 3 to DA+/DIM+
CSEN1 auto-detects D4i (max. 4 drivers) or
0-10V (10 mA sink). Draws 35 mA at 24V; 70mA at 12V.
No Zhaga receptacle? Use CSEN1-ZHA-ADPT-22
or -33 wired adapter (22 / 33 mm knockout).

Verify pinout against luminaire OEM and Synapse CSEN1 wiring diagram.

LEGEND

- SNAP 2.4 GHz wireless mesh (802.15.4)
- Ethernet — CAT6 to owner network (by others)
- Verizon 4G LTE cellular (alternate to Ethernet)
- Line voltage branch circuit (by EC)
- Class 2 zone — Actual wire colors (Details 2, 3)
- Furnished / installed by others
- (#) Keyed note (see General Notes)
- (#) Detail reference

GENERAL NOTES

1. SC-1 (SS450-002) is rated for indoor use. Mount it on the included wall-mount bracket; do not mount it flush against the wall. Locate on an exterior wall or near a window facing the lot, as high as practical. Where the building blocks RF to the site, contact Synapse for an outdoor site controller or RF layout review.
2. Provide a dedicated 120VAC receptacle within 6 ft of SC-1. AC adapter is included with SC-1.
3. Internet is required only for SimplySnap Cloud — via owner Ethernet (preferred) or built-in Verizon 4G LTE. Site operates locally with no Internet connection; local Wi-Fi provides on-site access.
4. All luminaire controllers communicate over the SNAP self-healing wireless mesh. Every controller is a repeater; no control wiring, home runs, or conduit for controls are required.
5. Branch circuits supply standard power only. Controllers switch and dim each luminaire individually; contactors and time clocks are not required for controlled luminaires.
6. Each luminaire is individually addressable and can be assigned to any group or zone in software at commissioning.
7. Startup and commissioning by Synapse or Synapse-certified agent. EC to provide a luminaire/pole location, MAC address tracking, and confirm all luminaires are energized prior to commissioning.
8. SW-1 (SNV-SW-02) needs line, neutral and ground in a standard wall box. No load or control wiring; buttons trigger SimplySnap scenes over SNAP. Indoor only. A plastic decorator faceplate is included; a substitute faceplate is acceptable but must be plastic (no metal).

DEVICE & LUMINAIRE REQUIREMENTS SCHEDULE

TAG	DEVICE / PART NO.	DESCRIPTION	INTERFACE / MOUNTING	POWER	FURNISHED	INSTALLED
SC-1	SS450-002	SimplySnap Site Controller. SNAP 2.4 GHz mesh, Wi-Fi (local), Verizon 4G LTE. 1 per site typ.	Indoor only. Included wall bracket required. See note 1.	AC adapter (incl.) 100–240VAC; 120V rcpt by EC	Synapse	EC
A	TL7-HV(G)	Twist-lock luminaire controller: on/off relay 0-10V dimming, photocell, power monitoring, GPS optional	ANSI C136.41 7-pin dimming receptacle (top)	110–480VAC ±10% line-powered	Synapse	EC
A-LUM	TYPE A LUMINAIRE	Must include: ANSI C136.41 7-pin dimming receptacle wired per Detail 2; 0-10V dimmable LED driver.	Pole / arm mount per lighting plans	277–480VAC branch circuit	Luminaire OEM	EC
B	CSEN1-H-W-ZHA (white) CSEN1-H-G-ZHA (gray)	Combo controller: PIR occupancy + photocell + D4i / 0-10V dim-to-off. Optional CSEN1-MASK.	Zhaga Book 18 receptacle (luminaire underside)	12–24VDC, 35 mA at 24V; 70mA at 12V from driver aux	Synapse or Luminaire OEM	EC or factory
B-LUM	TYPE B LUMINAIRE	Must include: Zhaga Book 18 receptacle wired per Detail 3; D4i driver, or 0-10V driver w/ 12–24VDC aux output.	Pole / arm mount; mount ht. up to 40 ft (12 m)	277–480VAC branch circuit	Luminaire OEM	EC
SW-1	SNV-SW-02	Wireless 2-button switch: on/off/scene, hold to dim. Up to 5 scenes per button. Indoor only.	Standard wall box, Decora opening; plastic faceplate only (incl.)	120–277VAC, 1.5W max line + neutral (no load)	Synapse	EC

Quantities per lighting plans / luminaire schedule. Controllers may be factory-installed by the luminaire OEM or field-installed. Luminaire OEM to confirm receptacle and driver compatibility.

TYPICAL SEQUENCE OF OPERATIONS

Dusk:	All site lighting ON (photocell or astronomical schedule).
Business hours:	Display lot 100%; customer parking & service drive at owner-set level.
After close:	Dim to security level (e.g., 30–50%). Type B (CSEN1) zones raise to 100% on motion, return to security level after time delay.
Dawn:	All site lighting OFF.
Overrides:	From SW-1 wall switch or SimplySnap app (local or cloud) for events, sales, and maintenance.

Levels, zones, and times are typical and set in software to owner preference. Supports exterior lighting-control requirements of ASHRAE 90.1, IECC, Title 24, and DLC NLC — confirm against the project's adopted energy code.

synapse
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DRAWING TITLE	PROJECT / LOCATION	SUBMITTED BY (AGENT)	DWG NO.	REV	DATE
SIMPLYSNAP LIGHTING CONTROLS — AUTO DEALERSHIP TYPICAL ONE-LINE			SS-0L-AUTO-01	A	10/09/2026
			SCALE: NTS	SHEET: 1 OF 1	DRAWN