ALS®
Advantage Lighting Solutions

CONTRACTOR SERIES WALL PACK

Client:
Project:
Type:
Quantity:

CONSTRUCTION
Cast aluminum frame holds lens and seals to housing gasket with two stainless steel screws. Housing is completely sealed against moisture and environmental contaminants. Heat dissipating fins provide superior thermal performance extending the life of the luminaire.

OPTICS
Full glass front lens provides uniform distribution and glare control. CCT selectable between 3000K ~ 5000K (80 CRI) configuration settings.

ELECTRICAL
80+ CRI Lumileds LED.
-40°C up to 40°C (-40°F up to 104°F) maximum operating temperature.
50,000hr LED at L70 @ 25°C.
Available with CCT / Output Selectable Function.
CSW-40 model output selectable 16W / 27W / 32W / 40W.
CSW-60 model output selectable 25W / 40W / 50W / 60W.
CSW-90 model output selectable 30W / 50W / 70W / 90W.
CSW-120 model output selectable 50W / 80W / 100W / 120W.
Universal Input 120-277V, 0-10V dimming with 12V AUX output.
50/60Hz, <20% THD, 0.9 power factor.
Built-In Photocontrol as standard.
Optional 10kV Surge Protection.

MOUNTING
Wall mount over electrical box or via surface conduit.

SENSORS (OPTIONAL)
CONTROL-BLE-SK104-PH ALS Control Bluetooth Fixture Controller.
CONTROL-LVFA AVI-ON Bluetooth Mesh Controller.

STANDARD FINISH
Corrosion resistant Dark Bronze powder coating finish.

CERTIFICATION
Wet Location listed.
All luminaires are built to UL1598 standards and bear appropriate cULus labels.
For Emergency application, equipped with UL924 certified battery packs.
DLC® Premium (DesignLights Consortium Qualified) listed.

WARRANTY
5 year warranty, see Limited Warranty for additional information.

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ORDER INFORMATION					EXAMPLE: CSW 90 SC DB UD-P
Fixture	Series	Power & LM	CCT	Finish	Input
	CSW		SC	DB	UD-P
Accessories Options					

A SERIES

CSW	Contractor Series - Wall Pack

B POWER & LM

Code	Power	LM
40	Field Selectable 16W / 27W / 32W / 40W	2,400lm ~ 5,800lm
60	Field Selectable 25W / 40W / 50W / 60W	4,000lm ~ 8,500lm
90	Field Selectable 30W / 50W / 70W / 90W	4,800lm ~ 12,500lm
120	Field Selectable 50W / 80W / 100W / 120W	8,000lm ~ 16,500lm

C CCT

SC	Field Selectable CCT 3000K / 4000K / 5000K

D FINISH

DB	Dark Bronze

E INPUT

UD-P	120-277V, 0-10 Dimming with Built-in Photocell

F ACCESSORIES/OPTIONS

| BAA	Assembled in America, compliant with BAA (COTS)
SURGE-LSP4-U	10kV Inline Surge Protection for Universal Input / **U:** 120-277V
EMB-5W-MST*	5W External Emergency Battery (for CSW-40)
EMB-8W-B*	90-Minute Self-Diagnostic Emergency Battery 8W 100-347VAC Input 170VDC Output (for CSW-60/-90/-120)
EMB-18W-B*	90-Minute Self-Diagnostic Emergency Battery 18W 100-347VAC Input 170VDC Output (for CSW-60/-90/-120)
EMB-18W-C-B*	90-Minute Self-Diagnostic Emergency Battery 18W 100-347VAC Input 170VDC Output -20°C-50°C (-4°F-122°F) (for CSW-60/-90/-120)
CONTROL-BLE-SK104-PH*	Integral Bluetooth Fixture Controller w/Button Photocell (ALS Control Mobile App)
CONTROL-LVFA*	Integral AVI-ON Bluetooth Fixture Controller

*see pages 5-6 for sensor and emb spec

DIMENSIONS

Model	H	L	D
CSW-40	10.5" (267mm)	8.78" (223mm)	4.5" (114mm)
CSW-60	9.25" (235mm)	14.20" (361mm)	4.43" (112mm)
CSW-90	9.25" (235mm)	14.20" (361mm)	4.43" (112mm)
CSW-120	9.75" (248mm)	17.99" (457mm)	4.5" (114mm)

CSW-40

H

L

D

CSW-60/-90/-120

H

L

D
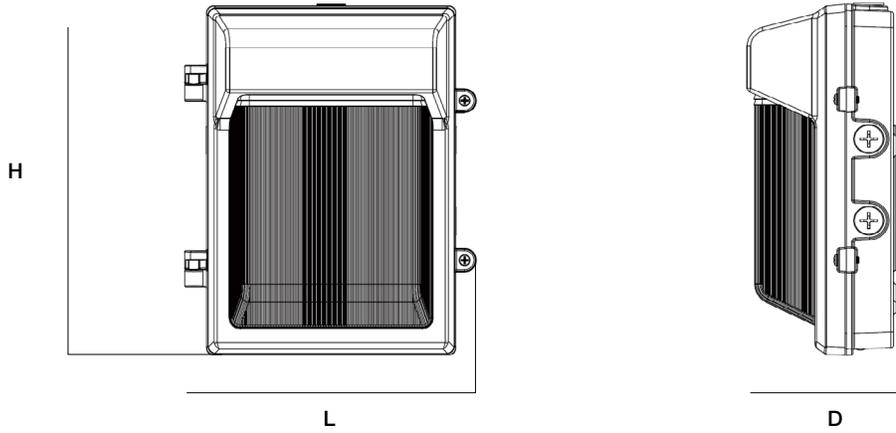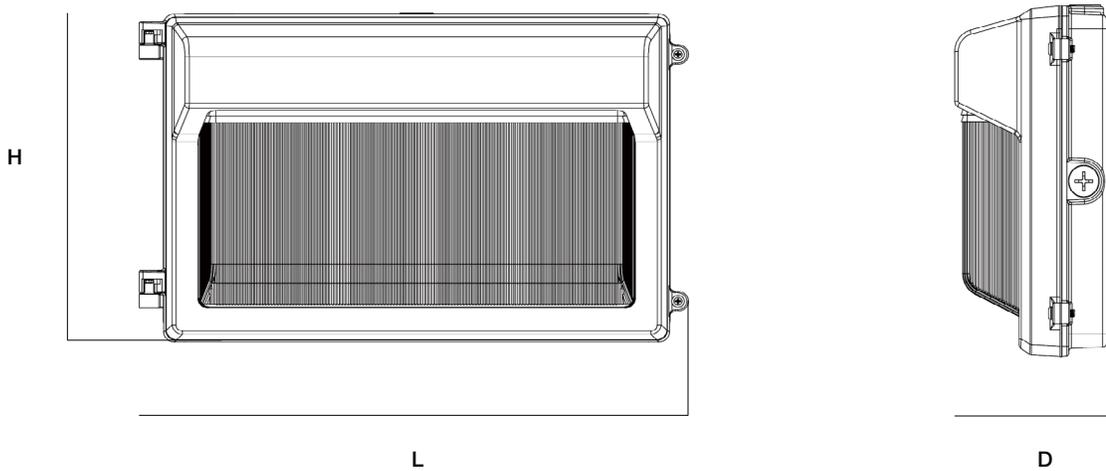
PERFORMANCE DATA

SYSTEM WATTS	VOLTAGE	3000K		4000K		5000K	
		LUMENS	LPW	LUMENS	LPW	LUMENS	LPW
CSW-40 (16W)	120-277V	2,400	150	2,600	163	2,500	156
CSW-40 (27W)	120-277V	3,900	144	4,200	156	4,000	148
CSW-40 (32W)	120-277V	4,500	141	4,800	150	4,600	144
CSW-40 (40W)	120-277V	5,400	135	5,800	145	5,500	138
CSW-60 (25W)	120-277V	4,000	160	4,300	172	4,200	168
CSW-60 (40W)	120-277V	6,000	150	6,400	160	6,200	155
CSW-60 (50W)	120-277V	7,000	140	7,500	150	7,200	144
CSW-60 (60W)	120-277V	8,000	133	8,500	142	8,200	137
CSW-90 (30W)	120-277V	4,800	160	5,000	165	4,900	162
CSW-90 (50W)	120-277V	7,500	150	7,800	155	7,600	152
CSW-90 (70W)	120-277V	9,800	140	10,200	145	9,900	142
CSW-90 (90W)	120-277V	12,000	133	12,500	139	12,200	136
CSW-120 (50W)	120-277V	8,000	160	8,500	170	8,200	164
CSW-120 (80W)	120-277V	12,000	150	12,500	156	12,200	153
CSW-120 (100W)	120-277V	14,000	140	14,500	145	14,200	142
CSW-120 (120W)	120-277V	16,000	133	16,500	138	16,200	135

PERFORMANCE DATA / DLC CODE

SYSTEM WATTS	CCT	VOLTAGE	LUMEN	LPW	QTY ON PALLET	PART NUMBER	DLC PRODUCT ID / ORDER CODE	DLC CLASS
CSW-40 40W Selection	3000K ~ 5000K	120-277V	5,800	145	96	CSW-40SC-DBUD-P	ALS: CSW-40SC-DBUD-P Product ID: S-VMTMZQ	DLC 5.1 Premium
CSW-60 60W Selection	3000K ~ 5000K	120-277V	8,500	142	96	CSW-60SC-DBUD-P	ALS: CSW-60SC-DBUD-P Product ID: S-Q1XWPJ	DLC 5.1 Premium
CSW-90 90W Selection	3000K ~ 5000K	120-277V	12,500	139	96	CSW-90SC-DBUD-P	ALS: CSW-90SC-DBUD-P Product ID: S-ZJJMWV	DLC 5.1 Premium
CSW-120 120W Selection	3000K ~ 5000K	120-277V	16,500	138	96	CSW-120SC-DBUD-P	ALS: CSW-120SC-DBUD-P Product ID: S-ZZ6ZW4	DLC 5.1 Premium

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SENSOR SPEC

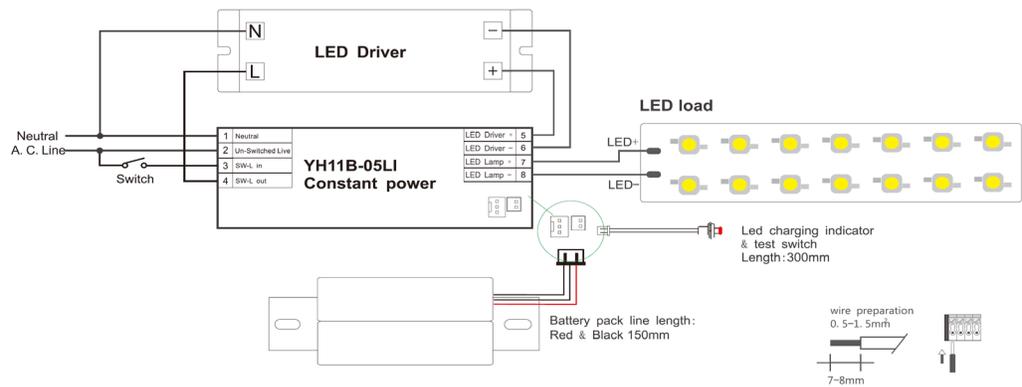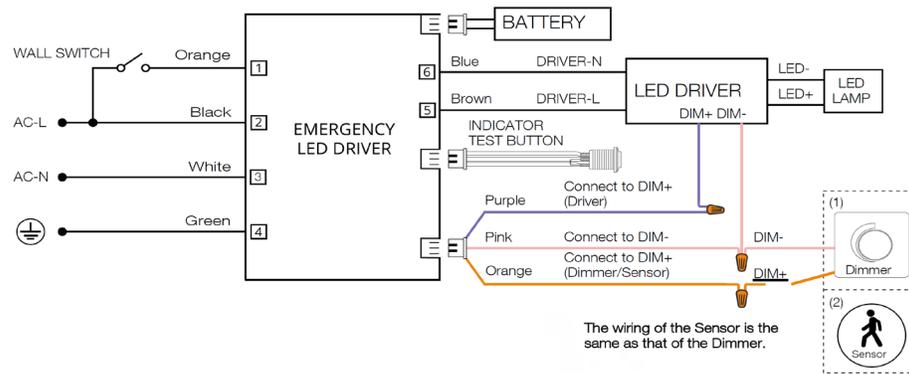| Model	Type	Mounting	Coverage	Input	Function	Programmable
CONTROL-BLE-SK104-PH	Fixture Controller	-	-	12V DC	Bluetooth Mesh On/Off/Dimming Scheduling CCT Tuning	ALS Control Bluetooth Mobile App
CONTROL-LVFA	Fixture Controller	-	-	12V DC	Bluetooth Mesh On/Off/Dimming Scheduling	AVI-ON Bluetooth Mobile App

CONTROL-BLE
-SK104-PH

CONTROL-AVI-LVFA

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EMB SPEC

Model	Battery Capacity	Input	Output	Output Power	Operating Temp	Installation
EMB-5W-MST (for CSW-40 only)	90mins	100-277VAC	52VDC	5W	0°C ~ 70°C 32°F ~ 158°F	Factory
EMB-8W-B	90mins	100-347VAC	170VDC	8W	0°C ~ 50°C 32°F ~ 122°F	Factory or Field Install
EMB-18W-B	90mins	100-347VAC	170VDC	18W	0°C ~ 50°C 32°F ~ 122°F	Factory or Field Install
EMB-18W-C-B	90mins	100-347VAC	170VDC	18W	-20°C ~ 50°C -4°F ~ 122°F	Factory or Field Install

EMB-5W-MST

EMB-8W-B
EMB-18W-B
EMB-18W-B-C

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ALS CONTROL

CONTROL-BLE-SK104-PH BLUETOOTH CONTROLER

Client:
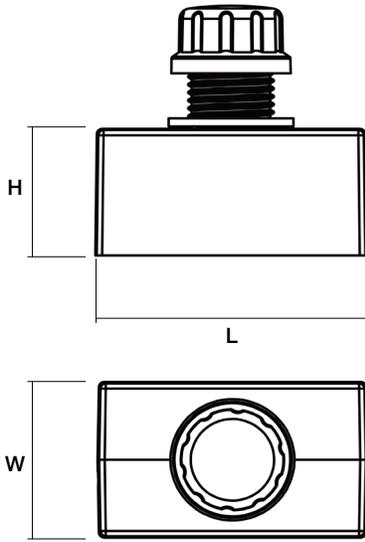Project:
Type:
Quantity:

FEATURE

- **Installation:** Factory / Jobsite install through 1/2" knockout hole, 12V AUX power required
- **Commissioning:** Wirelessly through ALS Control Mobile App (iOS / Android)
- **Certification:** DLC 5.1 Networked Lighting Control System
- **Control:** High-End Trim, Zoning, Continuous Bi-level Dimming
- **CCT Tuning:** CCT Tuning feature for Dual/Multi-CCT LED board fixture only
- **Sensor:** Photocell
- **Zone Control:** Zoning and Grouping control, Scheduling

SPECIFICATIONS

SENSOR TYPE:	Photocell
WIRELESS STANDARDS:	5.0 Bluetooth Mesh
INPUT VOLTAGE:	12-14VDC, >50mA
CONTROL OUTPUT:	0-10V
OPERATING TEMP:	-40°F ~ +158°F (-40°C ~ +70°C)
COMMISSIONING RANGE:	50FT
BLUETOOTH RANGE:	100FT
DETECTION ANGLE:	360°
WARRANTY:	5 years
IP RATING:	IP65

DIMENSIONS

L	H	W
1.14" (29mm)	0.94" (24mm)	1.97" (50mm)

WIRING DIAGRAM

0-10V Dimming Driver w/12V AUX Output

L
N

+12V (Yellow)
CCT+ (Blue)
DIM- /GND (Pink)
DIM+ (Purple)

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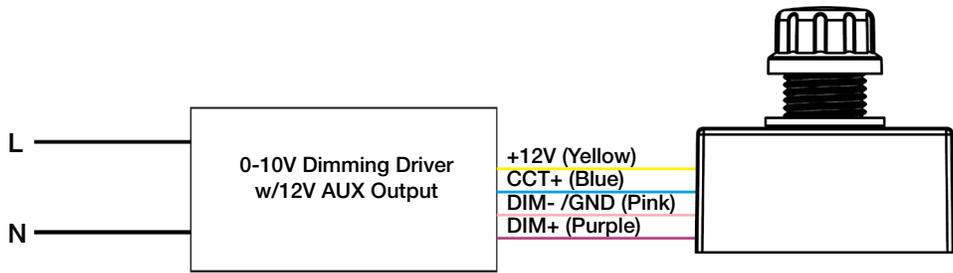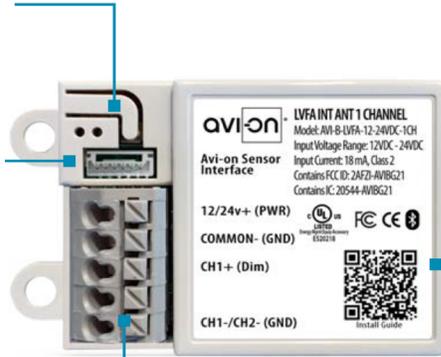
CONTROL-LVFA SPEC

Status LEDs & Config Button
Quick and easy validation of wiring and network

Direct Connect™ Sensor Port
Simple and cost-effective addition to Avi-on sensors

Terminal Blocks & Mounting Tabs
Faster, easier and lower cost installation eliminating connectors

Internal Antenna
Improved performance and eliminates risk of accidentally cutting a hanging wire

SPECIFICATIONS

INPUT VOLTAGE: 12-24VDC
CURRENT: 15mA without a Sensor
19mA with a DC PIR Sensor
48mA with a DC Microwave Sensor
0-10V DIMMING: 12-24VDC
SIZE: 2.30in x 1.43in x 0.75in
(58.2mm x 36.4mm x 19mm)
MOUNTING: Removable mounting tabs
WEIGHT: 0.45 oz (16g)
**OPERATING TEMP:** -22°F to +158°F (-30°C to + 70°C)

RADIO FREQUENCY: 2.4GHz
WIRELESS STANDARD: BLE 4.2 with Mesh
POINT TO POINT RANGE*: 80ft with obstructions
350ft unobstructed
SECURITY: AES 128-bit encryption for device to device communication
AES 256-bit encryption for device to cloud communication
WARRANTY: 5 years; 10 years optional
REGULATORY: FCC: 2AFZI-AVI1010 B
IC: 20544-AVI1010 B
BQB: D031801, DID: 86303
UL 916, 2043 (Plenum Rated)

*When communicating through the mesh, range is essentially unlimited (5000ft+)

WIRING DIAGRAM
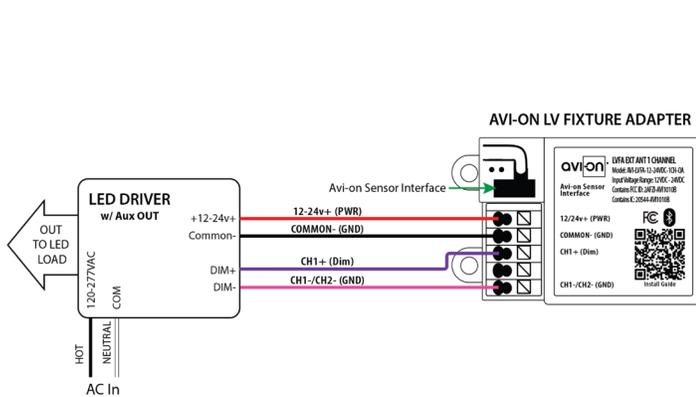
Fixture adapter powered by LED driver auxiliary output
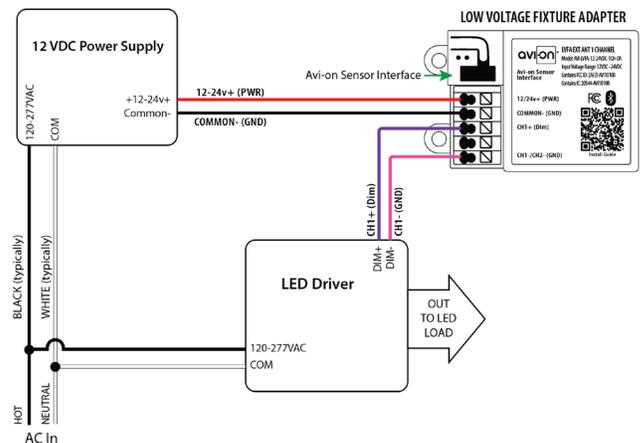
Fixture adapter connected to LED driver and using power supply