ALS®
Advantage Lighting Solutions

FD4 SERIES FLOODLIGHT

CONSTRUCTION

Rugged die-cast aluminum housing with hinged, die-cast aluminum door.
Low profile, 3G vibration rated compact design minimizes wind load requirements.
Housing is completely sealed against moisture and dusty.

OPTICS

UV-resistant polycarbonate optics, available in Type V distribution.
Optics is precisely designed to shape the distribution, maximizing efficiency and application spacing.

ELECTRICAL

70+ CRI Lumileds LED.
-40°C up to 50°C (-40°F up to 122°F) maximum operating temperature.
Long-life 120,000 hr LED at L70 @ 40°C.
Driver operates at 120-277V input, 0-10V dimmable driver, down to 10%.
50/60Hz, <20% THD, 0.9 power factor.
Optional 347/480V input. Optional 10kV surge protection.
Optional dimming sensor for occupancy and ambient light level detection.

SENSORS (OPTIONAL)

SENSOR-BLE-619 Integral PIR ALS Control Bluetooth/on/off/dimming/photosensing.
SENSOR-823 Integral PIR on/off/dimming/photosensing.
SENSOR-820 Integral PIR on/off/dimming/photosensing.
SENSOR-PH-PB-U Integral button style photocell.
SENSOR-PH-PT-U/UD/HD Twist lock dimming/non-dimming photocontrol.
CONTROL-LVFA AVI-ON Bluetooth Mesh Controller.
CONTROL BLE-SK104-PH ALS Control Bluetooth Fixture Controller.

MOUNTING

Standard slipfitter for 2-3/8" tenon (SF) and adjustable trunnion mount (TR).
Optional tilt-able pole mount bracket (SRT).

STANDARD FINISH

Corrosion resistant Dark Bronze powder coating finish.

CUSTOM FINISH

Corrosion resistant Black, Graphite Metallic, Gray, Silver, White, Custom RAL#.

CERTIFICATION

IP65 Wet location label standard.
Meets Buy America Act requirements.
IDA compliant: with 3000K color temperature selection.
Title 24 compliant; see local ordinance for qualification information.
All luminaires are built to UL1598 standards and bear appropriate cULus labels.
DLC® Premium (DesignLights Consortium Qualified) listed.

WARRANTY

5 year warranty, see Limited Warranty for additional information.

Slipfitter   w/Trunnion

SHIPPING DATA

Product	Measurement	Weight
FD4-100	14"L x 11"W x 3"H	9 lb
FD4-150/180	15"L x 12"W x 3"H	9 lb
FD4-250/300	24"L x 13"W x 3"H	17 lb

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FD4 SERIES FLOODLIGHT

ORDER INFORMATION

Fixture	Series	Power & LM	CCT	Distribution	Finish	Input
	FD4			T5		

A SERIES

FD4	Flood Light

B POWER & LM

Code	Power	LM	Code	Power	LM
100	100W	14,200	250	250W	35,000
150	150W	21,000	300	300W	42,000
180	180W	25,000			

C CCT

40	4000K		50	5000K

D DISTRIBUTION

T5	Type V

E FINISH

Standard

DB	Dark Bronze					

Custom Color

CC	BK	Black	GM	Graphite Metallic	GR	Gray
	SV	Silver	WH	White	RAL#	

F INPUT

UNVD	120-277V, 1-10V Dimmable	HVLD	347-480V, 1-10V Dimming

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ORDER INFORMATION (CONTINUED)

Mounting

Accessories
Options

G MOUNTING

MOUNT-FD4-SF	Slipfitter
MOUNT-FD4-TR	Trunnion Mount
MOUNT-FD4-SRT	Square/Round Pole Tilt-able

H ACCESSORIES/OPTIONS

|	
AIA	Assembled in America, compliant with BAA (COTS)
SHIELD-FD4-A / B / C	Backlight Shield **A:** FD4-100 **B:** FD4-150 / 180 **C:** FD4-250 / 300
SENSOR-BLE-619-L3 / L4**	Integral PIR Bluetooth Daylight Sensor (ALS Control Mobile App) / **L3:** up to 40FT, **L4:** up to 8FT
SENSOR-PH-PB-U**	Button Style Photocell
SENSOR-PH-PT-U / UD / HD**	Twist Lock Photocell / **U:** 120-277V, **UD:** 120-277V, **HD:** 480V input
SENSOR-823-L3 / L4**	Integral PIR on/off/dimming/photosensing / **L3:** up to 40FT, **L4:** up to 8FT
SENSOR-820**	Integral PIR on/off/dimming/photosensing
REMOTE-RC100	Handheld Remote Commissioning Tool for SENSOR-823, 820 Series
SURGE-LSP4-U / H	10kV inline Surge Protection for Universal input / **U:** 120-277V, **H:** 480V input
CONTROL-LVFA**	AVI-ON Bluetooth Mesh Control System
CONTROL-BLE-SK104-PH**	Integral Bluetooth Fixture Controller w/Button Photocell (ALS Control Mobile App)

*see page 5 for shield spec

**see page 7 for sensor spec

DIMENSIONS

Model	L	W	H
FD4-100	12.63" (321mm)	9.25" (235mm)	2.46" (63mm)
FD4-150 / 180	14.11" (358mm)	11.69" (297mm)	2.28" (58mm)
FD4-250 / 300	23.3" (592mm)	12.23" (311mm)	2.46" (63mm)
Bracket - SF	10.00" (254mm)	3.35" (85mm)	3.35" (85mm)
Bracket - TR	5.93" (151mm)	1.97" (50mm)	5.43" (138mm)
Bracket - SRT	9.25" (235mm)	3.55" (90mm)	6.97" (177mm)

SF (Slipfitter)

SRT (Square/Round)

TR (Trunnion Mount)
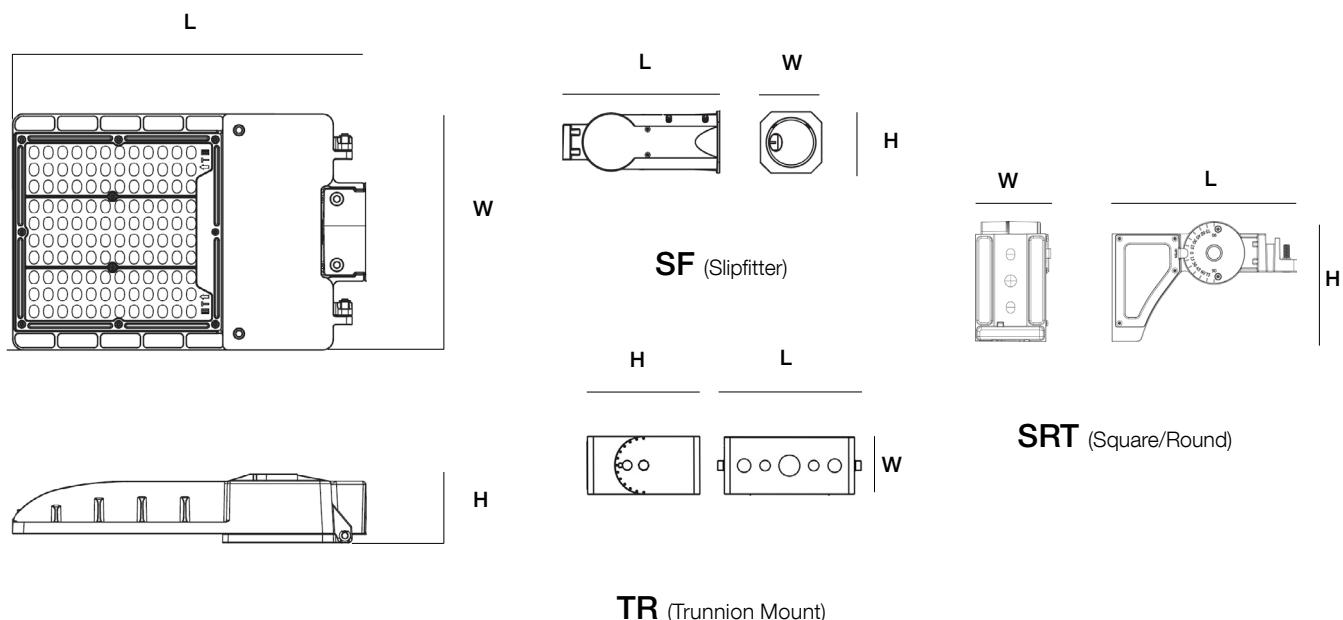
EPA (ft²)
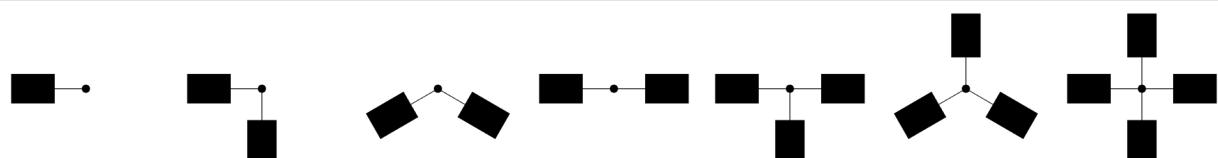
Mounting Option	Single	2 @ 90°	2 @ 120°	2 @ 180°	3 @ 90°	3 @120°	4 @90°
100W	0.275	0.527	0.732	0.616	0.958	0.984	0.958
150W / 180W	0.311	0.634	0.646	0.622	0.934	0.970	0.934
250W / 300W	0.410	0.723	0.992	0.886	1.199	1.305	1.197

SHIELD SPEC

SHIELD-FD4-A
Matching Finish Metal Houseside Shield

For FD4-100W (1:1)

SHIELD-FD4-B
Matching Finish Metal Houseside Shield

For FD4-150 / 180W (1:1)

SHIELD-FD4-C
Matching Finish Metal Houseside Shield

For FD4-250 / 300W (1:1)

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PERFORMANCE DATA

SYSTEM WATTS	VOLTAGE	DIST.TYPE	3000K		4000K		5000K	
			LUMENS	LPW	LUMENS	LPW	LUMENS	LPW
100W	120-277V	V	14200	142	14200	142	14200	142
150W	120-277V	V	21000	140	21000	140	21000	140
180W	120-277V	V	26000	144	26000	144	26000	144
250W	120-277V	V	36000	144	36000	144	36000	144
300W	120-277V	V	42000	140	42000	140	42000	140

DLC CODE

Part Number	DLC Product ID	DLC Class
FD4-10040T5-[DB, BK,WH] [UNVD, HVLD][Blank, SENSOR-BLE-619-L3/L4, SENSOR-PH-PB-U, SENSOR-823-L3/L4, SENSOR-820]	S-XT83VC	Premium
FD4-10050T5-[DB, BK,WH] [UNVD, HVLD][Blank, SENSOR-BLE-619-L3/L4, SENSOR-PH-PB-U, SENSOR-823-L3/L4, SENSOR-820]	S-D9KT0S	Premium
FD4-15040T5-[DB, BK,WH] [UNVD, HVLD][Blank, SENSOR-BLE-619-L3/L4, SENSOR-PH-PB-U, SENSOR-823-L3/L4, SENSOR-820]	S-TRRWLL	Premium
FD4-15050T5-[DB, BK,WH] [UNVD, HVLD][Blank, SENSOR-BLE-619-L3/L4, SENSOR-PH-PB-U, SENSOR-823-L3/L4, SENSOR-820]	S-3PV2C1	Premium
FD4-18040T5-[DB, BK,WH] [UNVD, HVLD][Blank, SENSOR-BLE-619-L3/L4, SENSOR-PH-PB-U, SENSOR-823-L3/L4, SENSOR-820]	S-FLQ2H8	Premium
FD4-18050T5-[DB, BK,WH] [UNVD, HVLD][Blank, SENSOR-BLE-619-L3/L4, SENSOR-PH-PB-U, SENSOR-823-L3/L4, SENSOR-820]	S-J76VPH	Premium
FD4-25040T5-[DB, BK,WH] [UNVD, HVLD][Blank, SENSOR-BLE-619-L3/L4, SENSOR-PH-PB-U, SENSOR-823-L3/L4, SENSOR-820]	S-Y6XTLT	Premium
FD4-25050T5-[DB, BK,WH] [UNVD, HVLD][Blank, SENSOR-BLE-619-L3/L4, SENSOR-PH-PB-U, SENSOR-823-L3/L4, SENSOR-820]	S-NFCMFD	Premium
FD4-30040T5-[DB, BK,WH] [UNVD, HVLD][Blank, SENSOR-BLE-619-L3/L4, SENSOR-PH-PB-U, SENSOR-823-L3/L4, SENSOR-820]	S-FH5G0T	Premium
FD4-30040T5-[DB, BK,WH] [UNVD, HVLD][Blank, SENSOR-BLE-619-L3/L4, SENSOR-PH-PB-U, SENSOR-823-L3/L4, SENSOR-820]	S-WK4HBD	Premium

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SENSOR SPEC

Model	Type	Mounting	Coverage	Input	Function	Programmable
SENSOR-823	PIR	**L3** - 40FT **L4** - 8FT	30FT radius 24FT radius	Universal	On/Off/Dimming	REMOTE-RC100
SENSOR-820	PIR	up to 40FT	30FT radius	100 ~ 480V	On/Off/Dimming Daylight Harvesting	REMOTE-RC100
SENSOR-PH-PB-U	-	-	-	Universal	Dusk-to-Dawn Control	-
SENSOR-PH-PT-U SENSOR-PH-PT-UD SENSOR-PH-PT-HD	-	-	-	Universal 277 ~ 480V	Dusk-to-Dawn Control	-
CONTROL-LVFA (see page 8 for detail)	Fixture Controller	-	-	12V DC	Bluetooth Mesh On/Off/Dimming Scheduling	AVI-ON Bluetooth Mobile App
SENSOR-BLE-619 (see page 9 for detail)	PIR	**L3** - 40FT **L4** - 8FT	30FT radius 24FT radius	12V DC	Bluetooth Mesh On/Off Daylight	ALS Control Bluetooth Mobile App
CONTROL-BLE-SK104-PH (see page 10 for detail)	Fixture Controller	-	-	12V DC	Bluetooth Mesh On/Off/Dimming Scheduling CCT Tuning	ALS Control Bluetooth Mobile App

SENSOR-823   SENSOR-820   SENSOR-PH-PB-U   SENSOR-PH-PT-U/UD   SENSOR-PH-PT-HD   CONTROL-LVFA   SENSOR-BLE-619   CONTROL-BLE -SK104-PH

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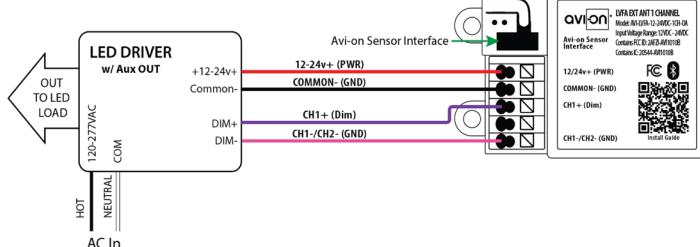
Fixture adapter powered by LED driver auxiliary output
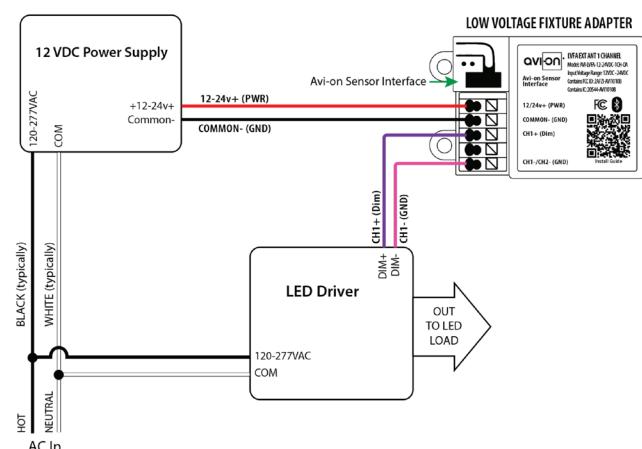
Fixture adapter connected to LED driver and using power supply

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ALS CONTROL

SENSOR-BLE-619 BLUETOOTH PIR SENSOR

Client:
Project:
Type:
Quantity:

FEATURE

- **Installation:** Factory Install - Sensor integral to fixture, lens external
- **Commissioning:** Wirelessly through ALS Control Mobile App (iOS / Android)
- **Certification:** DLC 5.1 Networked Lighting Control System
- **Control:** Hold time, High-Low setting, continuous Bi-level dimming, manual/auto - on/off
- **Sensor:** Motion (Occupancy/Vacancy/Manual) and Daylight
- **Zone Control:** Zoning and Grouping control, Scheduling

SPECIFICATIONS

SENSOR TYPE:	Passive Infrared Sensor (PIR)	**COMMISSIONING RANGE:**	50FT
WIRELESS STANDARDS:	Bluetooth SIG Mesh	**BLUETOOTH RANGE:**	Integral antenna up to 100FT
INPUT VOLTAGE:	12-24VDC, >50mA	**DETECTION ANGLE:**	Vertical 90° x Horizontal 360°
CONTROL OUTPUT:	0-10V	**MOUNTING HEIGHT:**	8 - 40FT
OPERATING TEMP:	-40°F ~ +158°F (-40°C ~ +70°C)	**WARRANTY:**	5 years
		IP RATING:	IP65

DIMENSIONS

BOTTOM VIEW
45mm (1.8in)
41.3mm (1.6in)
32.8mm (1.3in)

SIDE VIEW
50mm (2in)
35.8mm (1.4in)
18.3mm (.7in)
32.9mm (1.3in)

SIDE VIEW WITH DIPSWITCH
34.5mm (1.4in)
ON
1 2 3 4 5 6 7 8 9 10

COVERAGE PATTERNS

SIDE VIEW (in feet)

L3 Lens
0'
27'
40'
30'   20'   12'   6'   0'   6'   12'   20'   30'

L4 Lens
0'
8'
24'   11'   7'   3'   0'   3'   7'   11'   24'

TOP VIEW (in feet)

30'
15'
0'
15'
30'
30'   15'   0'   15'   30'
60'

30'
20'
10'
0'
10'
20'
30'
30'   20'   10'   0'   10'   20'   30'
60'
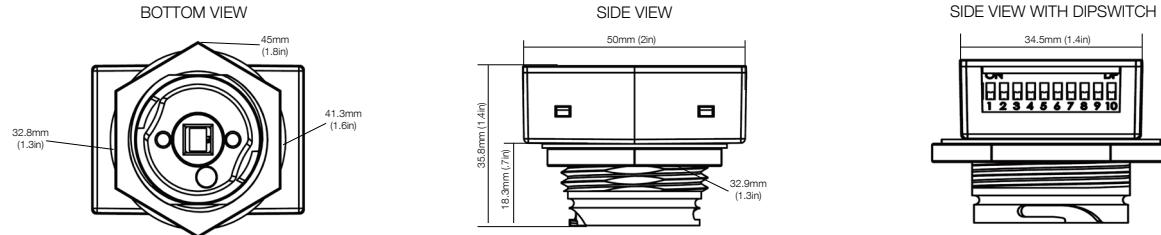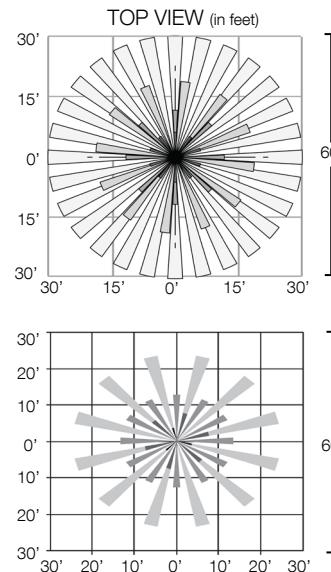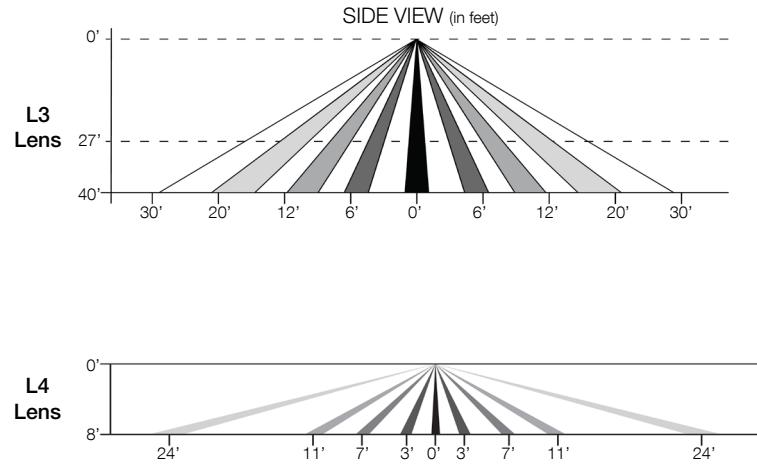
ORDER CODE

EXAMPLE: SENSOR-BLE-619-L3

A	SERIES	
	SENSOR-BLE-619-L	Integral PIR ALS Control Bluetooth Sensor 12VDC Input

B	LENS		
	Code	Mounting	Coverage
	3	40FT	30FT Radius
	4	8FT	24FT Radius

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Client:
Project:
Type:
Quantity:

# CONTROL-BLE-SK104-PH BLUETOOTH CONTROLER

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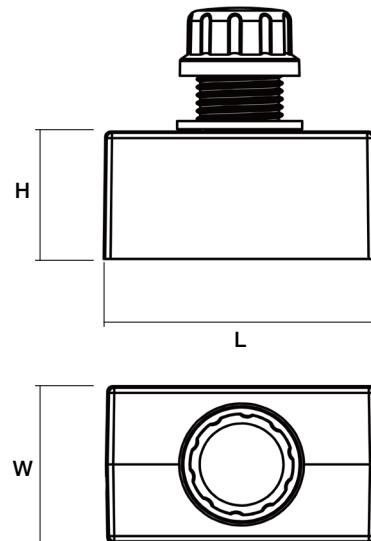
L	H	W
1.14" (29mm)	0.94" (24mm)	1.97" (50mm)

WIRING DIAGRAM

L

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

N

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

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