ALS®
Advantage Lighting Solutions

FD4 SERIES FLOODLIGHT

Client:
Project:
Type:
Quantity:

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 3000K - made to order. Optional 347/480V input. Optional 10kV surge protection.
Optional dimming sensor for occupancy and ambient light level detection.

Slipfitter

w/Trunnion

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.

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.

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

c UL us LISTED
DLC LISTED PREMIUM
DARK-SKY COMPLIANT
PROUDLY ASSEMBLED IN AMERICA
TITLE 24 COMPLAINT
ALS CONTROL
Quick Ship

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FD4 SERIES FLOODLIGHT

ORDER INFORMATION

EXAMPLE : FD4 100 40 T5 DB UNVD

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

30*	3000K	**50**	5000K
40	4000K		

***Made to order consult factory for lead time**

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**	347V, 480V, 1-10V

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Specifications are subject to change without notice

FD4 SERIES FLOODLIGHT

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-HSS-FD4*	Houeside Glare Shield **A:** 100W, **B:** 150/180W, **C:** 250/300W
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

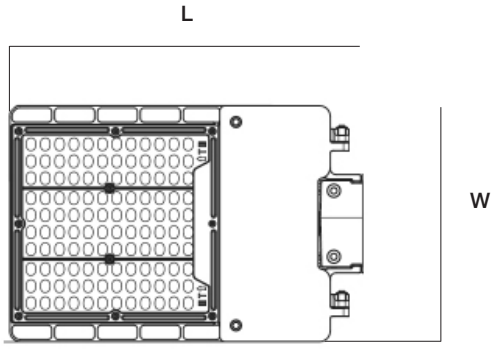
*see page 5 for shield spec

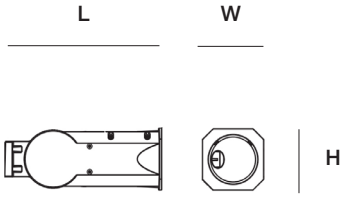
**see page 7 for sensor spec

FD4 SERIES FLOODLIGHT

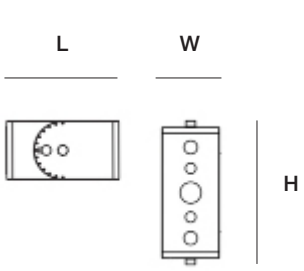
DIMENSIONS

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	8.47” (215mm)	3.35” (85mm)	3.35” (85mm)
Bracket - TR	5.37” (137mm)	3.75” (95mm)	2.36” (60mm)
Bracket - SRT	6.95” (176mm)	3.55” (90mm)	6.97” (177mm)

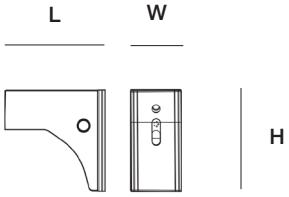




SF (Slipfitter)

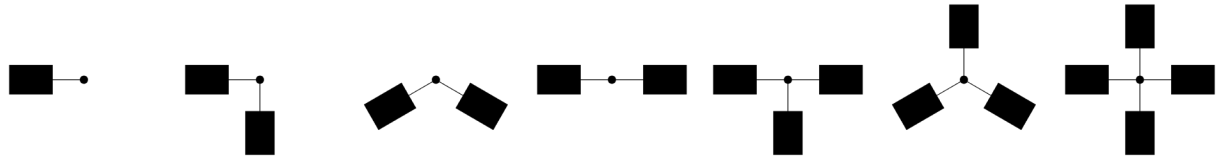


TR (Trunnion Mount)



SRT (Square/Round)

EPA (ft^2)



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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FD4 SERIES FLOODLIGHT

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

FD4 SERIES FLOODLIGHT

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

SENSOR-823

SENSOR-820

SENSOR-PH-PB-U

SENSOR-PH-PT-U/UD

SENSOR-PH-PT-HD

CONTROL-LVFA

SENSOR-BLE-619

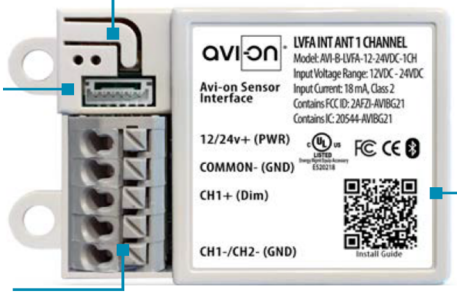
FD4 SERIES FLOODLIGHT

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

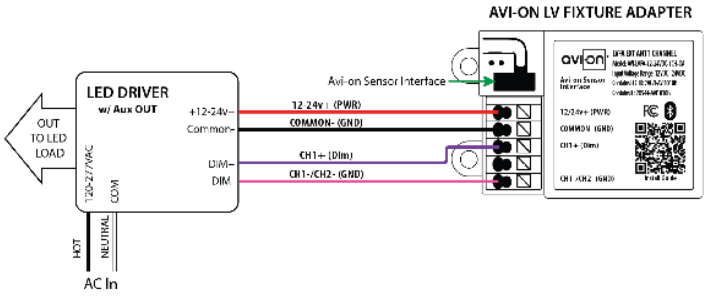
SPECIFICATIONS

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)

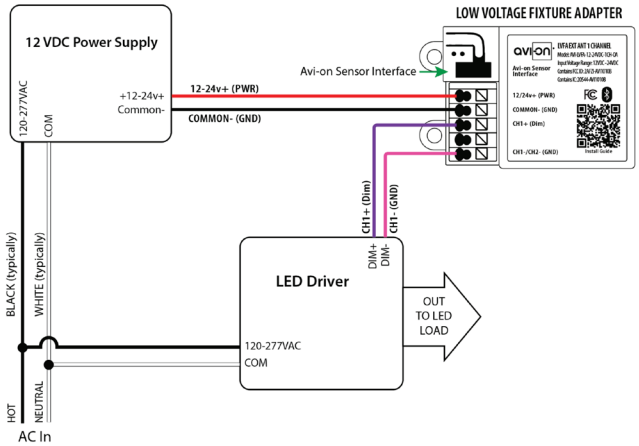
RADIO FREQUENCY:	2.4GHz
WIRELESS STANDARD:	BLE 4.2 with Mesh
POINT TO POINT RANGE*:	80ft with obstructions 350ft unobstructed
SECURITY:	AES 128-bit encryption for device to device communication AES 256-bit encryption for device to cloud communication
WARRANTY:	5 years; 10 years optional
REGULATORY:	FCC: 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

ALS CONTROL

SENSOR-BLE-619 BLUETOOTH PIR SENSOR

Client:
Project:
Type:
Quantity:

FEATURE

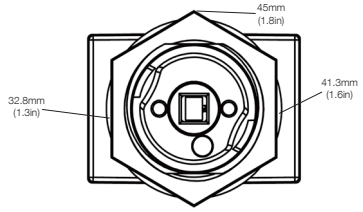
- **Installation:** Factory Install - Sensor integral to fixture, lens external
- **Commissioning:** Wirelessly through ALS Control Mobile App (iOS / Android)
- **Certification:** DLC 5.1 Networked Lighting Control System
- **Control:** Hold time, High-Low setting, continuous Bi-level dimming, manual/auto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

SPECIFICATIONS

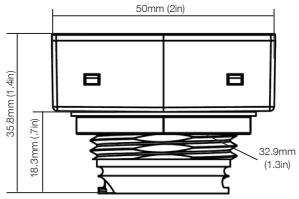
SENSOR TYPE:	Passive Infrared Sensor (PIR)
WIRELESS STANDARDS:	Bluetooth SIG Mesh
INPUT VOLTAGE:	12-24VDC, >50mA
CONTROL OUTPUT:	0-10V
OPERATING TEMP:	-40°F ~ +158°F (-40°C ~ +70°C)
COMMISSIONING RANGE:	50FT
BLUETOOTH RANGE:	Integral antenna up to 100FT
DETECTION ANGLE:	Vertical 90° x Horizontal 360°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

DIMENSIONS

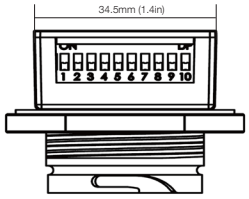
BOTTOM VIEW



SIDE VIEW

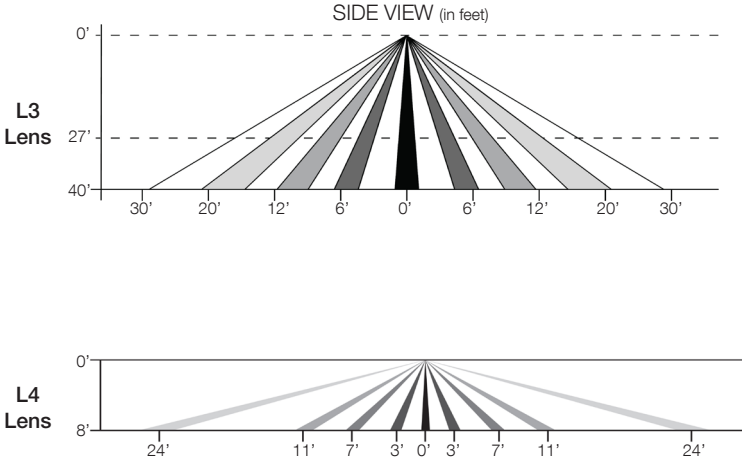
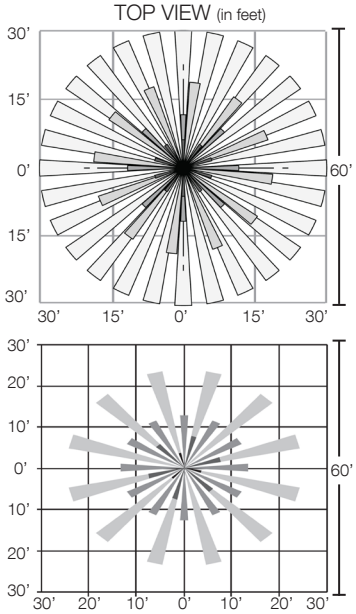


SIDE VIEW WITH DIPSWITCH



COVERAGE PATTERNS

SIDE VIEW (in feet)



TOP VIEW (in feet)