

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.

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.



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



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					

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

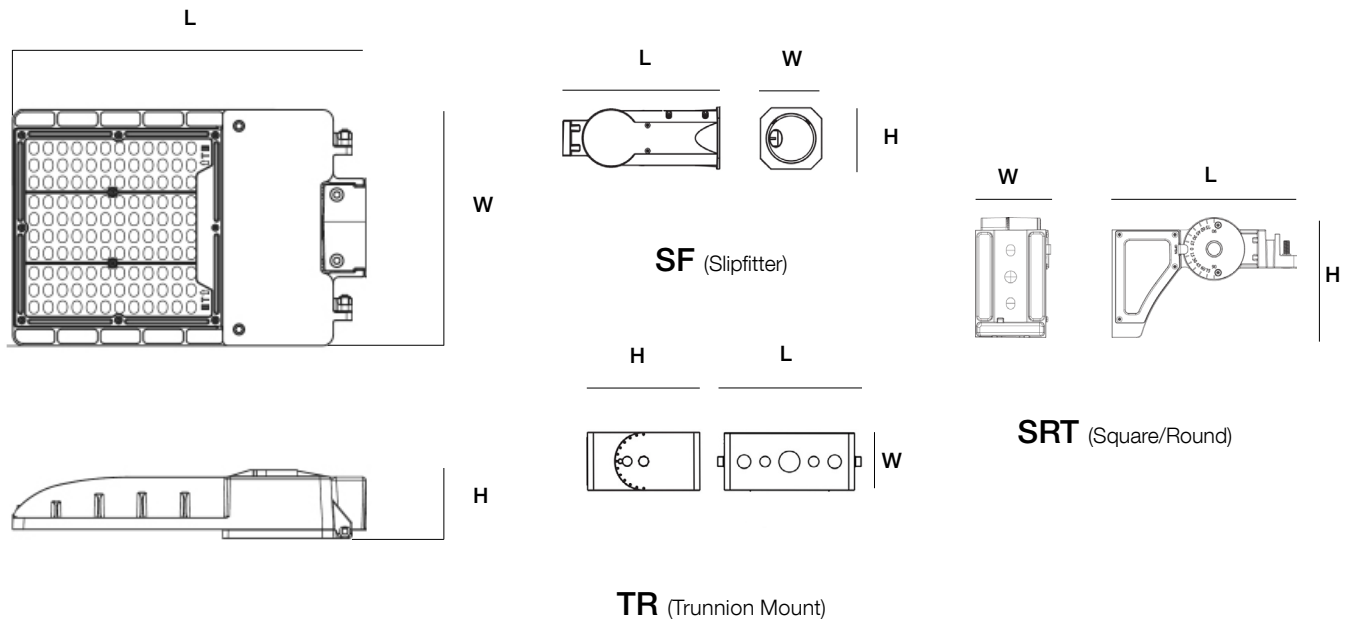
*see page 5 for shield spec

**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	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)



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

FD4 SERIES FLOODLIGHT

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)

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

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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	-	-	-	Universal	Dusk-to-Dawn Control	-
SENSOR-PH-PT-UD				277 ~ 480V		
SENSOR-PH-PT-HD						
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

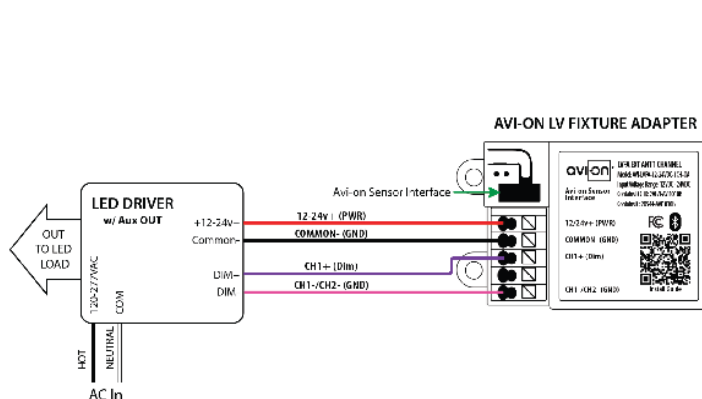
SPECIFICATIONS

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)

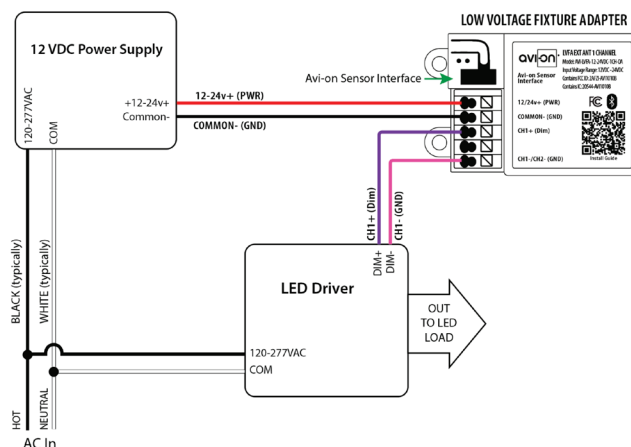
RADIO FREQUENCY: 2.4GHz
WIRELESS STANDARD: BLE 4.2 with Mesh
POINT TO POINT RANGE*: 80ft with obstructions
 350ft unobstructed
SECURITY: AES 128-bit encryption for device to device communication
 AES 256-bit encryption for device to cloud communication
WARRANTY: 5 years; 10 years optional
REGULATORY: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

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

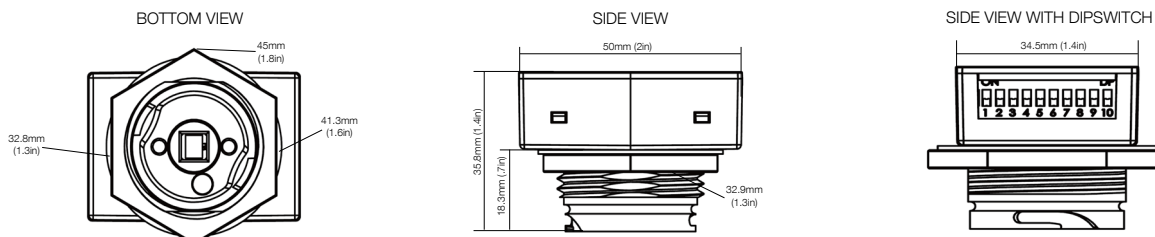


SPECIFICATIONS

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



COVERAGE PATTERNS

