

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 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



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						
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		

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

BAA	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)

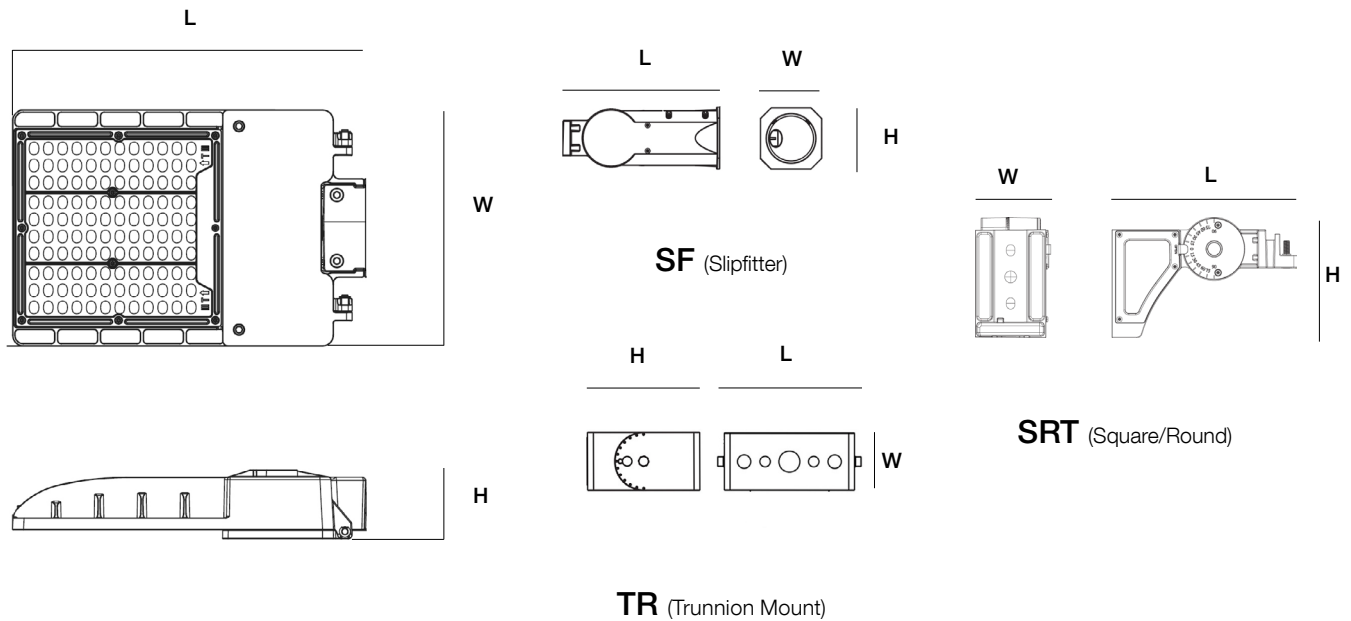
*see page 5 for shield spec

**see page 7 for sensor spec

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

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	-	-	-	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	
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



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

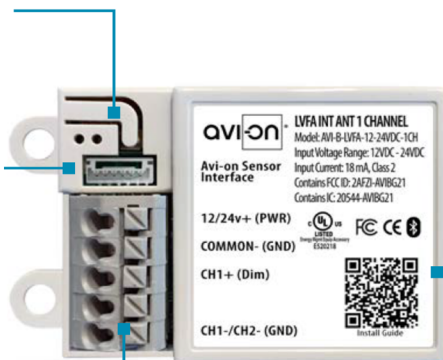
Quick and easy validation of wiring and network

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

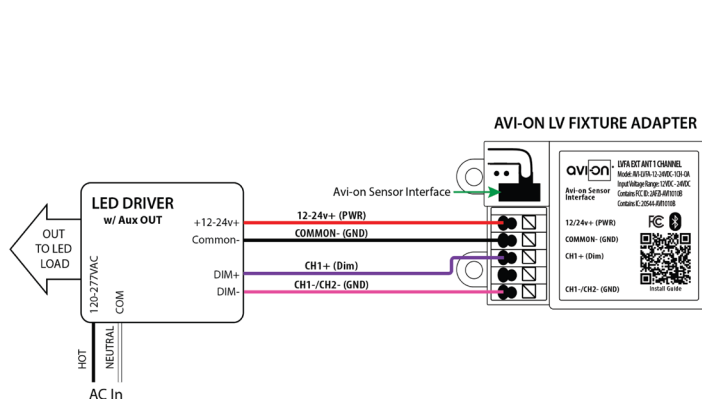
SPECIFICATIONS

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)

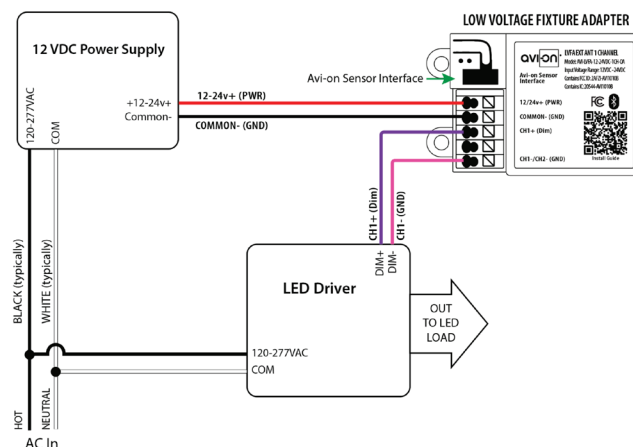
RADIO FREQUENCY: 2.4GHz
WIRELESS STANDARD: BLE 4.2 with Mesh
POINT TO POINT RANGE*: 80ft with obstructions
 350ft unobstructed
SECURITY: AES 128-bit encryption for device to device communication
 AES 256-bit encryption for device to cloud communication
WARRANTY: 5 years; 10 years optional
REGULATORY: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

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

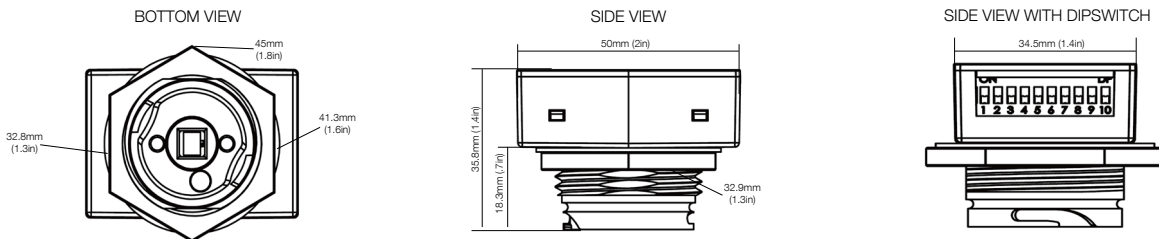


SPECIFICATIONS

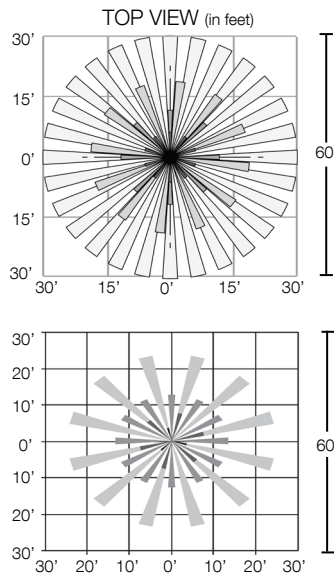
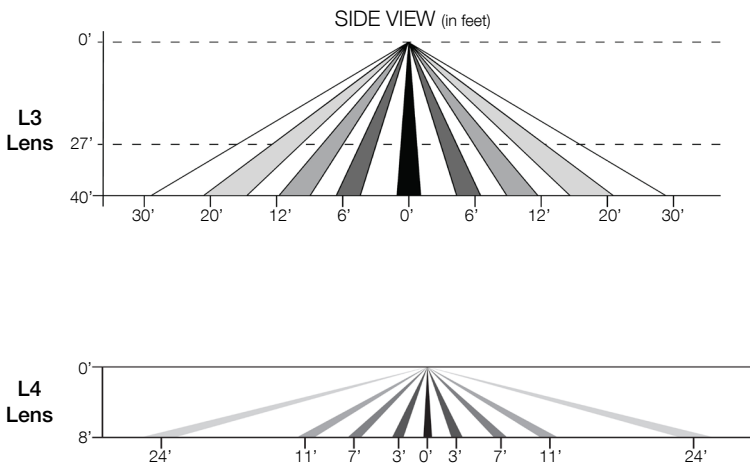
SENSOR TYPE: Passive Infrared Sensor (PIR)
WIRELESS STANDARDS: Bluetooth SIG Mesh
INPUT VOLTAGE: 12-24VDC, >50mA
CONTROL OUTPUT: 0-10V
OPERATING TEMP: -40°F ~ +158°F (-40°C ~ +70°C)

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



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

FEATURE

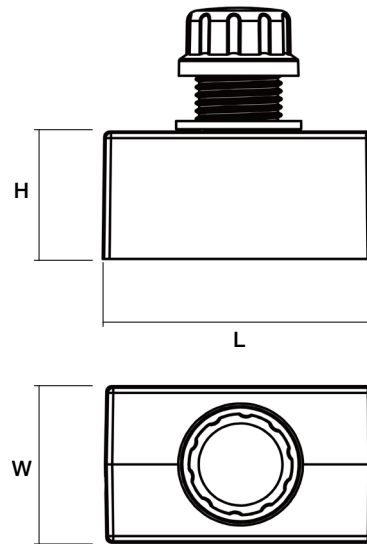
- **Installation:** Factory / Jobsite install through 1/2" knockout hole, 12V AUX power required
- **Commissioning:** Wirelessly through ALS Control Mobile App (iOS / Android)
- **Certification:** DLC 5.1 Networked Lighting Control System
- **Control:** High-End Trim, Zoning, Continuous Bi-level Dimming
- **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

