

PacLights

Commercial & Industrial Lighting



The
FVTBTM
Series

LED Vapor Tight Strip





LED Vapor Tight Strip



PROJECT: _____

DATE: _____

TYPE: _____

PREPARED BY: _____

**KEY FEATURES****100,000-Hour LED lifespan****Field-adjustable Color & Power** on all models**Ingress Protection rating of IP66** for dust and water**Available in 4ft and 8ft** length**Emergency Battery Backup** option available**TECHNICAL SPECIFICATIONS****COMPLIANCE****UL Listed**

UL 1598 Suitable for wet locations

IESNA LM79 & LM-80 Testing

PacLights LED luminaires have been tested by an independent laboratory in accordance with IESNA LM-79 and LM-80.

DLC QualificationSelected models of this product are on the Design Lights Consortium (DLC) Qualified Products List and are eligible for rebates from DLC Member Utilities. To view our DLC qualified products, please consult the DLC Qualified Products List at www.design-lights.org/qpl**LED CHARACTERISTICS****LEDs**

Long-life, high-efficacy, surface-mount LEDs

Lifespan

100,000-hour LED lifespan based on IES LM-80 results and TM-21 calculations

Color Rendering Index

>80

Color Uniformity

PacLights' range of Correlated Color Temperature follows the guidelines of the American National Standard for Specifications for the Chromaticity of Solid State Lighting (SSL) Products, ANSI C78.377-2017

ELECTRICAL**Drivers**

0-10V continuous dimming, can be dim to 10%

Input Voltage: 120-277V, 50-60 Hz

Power Factor: > 0.9

Wattage: FVTB-4D: 45w (adjustable to 38w or 34w by using a dip switch).

FVTB-8D: 90w (adjustable to 75w or 65w by using a dip switch).

Input Current: FVTB-4D: 0.42A (120v); 0.24A (208v); 0.21A (240v); 0.18A (277v).

FVTB-8D: 0.84A (120v); 0.48A (208v); 0.42A (240v); 0.37A (277v).

CONSTRUCTION**IP Rating**

Ingress Protection rating of IP66 for dust and water

Ambient Temperature

Suitable for 50° C (122° F) ambient temperature

Cold Weather Starting

The minimum starting temperature is -4 F°/-20° C

Housing

Non-Corrosive (PC) Polycarbonate housing.

NEMA 4X; IK10 Rated

Stainless Steel spec grade hasps and clips.

Mounting Methods

- Surface mount (standard)

- Suspended mount, v-hooks (standard)

Green Technology

Mercury and UV free, and RoHS compliant.

Lens

Frosted

OTHER**5-Year Limited Warranty****

The PacLights 5-year, limited warranty covers light output, driver performance and paint finish.

****PacLights's warranty is subject to all terms and conditions found at paclights.com/warranty**

ORDERING INFORMATION

FVTB™

FAMILY	MODEL	WATTAGE	CCT	CONTROL	EMERGENCY BACKUP
FVTB	MODEL	WATT	CCT	CONTROL	EMERGENCY

EXAMPLE

FVTB-4D-45/38/34-835/840/850

FVTB-4D-38-840-WBN

FVTB-8D-90/75/65-850-MM-EM2500

MODEL

* MUST SELECT ONE

CODE	LENGTH	WATTAGE SELECTABLE	CCT SELECTABLE
4D	4'	45/38/34W	3500/4000/5000K
8D	8'	90/75/65W	3500/4000/5000K

WATTAGE

* MUST SELECT ONE

CODE	WATTAGE	COMPATIBLE
45/38/34	45/38/34W Selectable	FVTB-4D Models
45	45W	
38	38W	
34	34W	
90/75/65	90/75/65W Selectable	FVTB-8D Models
90	90W	
75	75W	
65	65W	

CCT

* MUST SELECT ONE

CODE	CCT	CRI
835/840/850	3500/4000/5000K Selectable	>80
835	3500K	
840	4000K	
850	5000K	

CONTROL

* LEAVE BLANK, or SELECT ONE

CODE	TYPE	PARTS SKU	SENSOR	MOUNT	INSTALL
MM	Standalone	SE-BC-ANT7	Bi-level Microwave Motion & Daylight Harvesting	Internal	FACTORY
WBN	Bluetooth Networked	KEILTON-FA102	N/A	Internal	FACTORY
WBM		KEILTON-FA102 KEILTON-MWS105	Microwave Motion & Daylight	Internal	FACTORY

* all control options require auxiliary power supply - Part# TM-PSC-AC-PP-400

EMERGENCY BATTERY BACKUP

* LEAVE BLANK, or SELECT ONE

CODE	PARTS SKU	WATT	EMERGENCY LUMEN	CA CEC TITLE 20 MODEL#	COMPATIBLE	EMERGENCY RUNTIME	INSTALL
EM500	EMB-4	4w	500 Lumen	BLD-FM04E-600400	FVTB-4D Models	> 90 mins	FACTORY
EM1000	EMB-8	8w	1,000 Lumen	BLD-CM20N-480800-8W			
EM1800	EMB-15	15w	1,800 Lumen	BLD-CM20N-480800-15W	FVTB-8D Models		
EM2500	EMB-20	20w	2,500 Lumen	BLD-CM20N-YYY			

PERFORMANCE

	Model	Lumen Package	Wattage Setting	CCT Setting	Lumen Output
Delivered Lumens, 80 CRI	FVTB-4D	4,600	34w	3500K	4,624
				4000K	4,658
				5000K	4,692
		5,000	38w	3500K	5,054
				4000K	5,092
				5000K	5,130
		5,800	45w	3500K	5,850
				4000K	5,895
				5000K	5,940

Model	Lumen Package	Wattage Setting	CCT Setting	Lumen Output
Delivered Lumens, 80 CRI	8,900	65w	3500K	8,840
			4000K	8,905
			5000K	8,970
	10,000	75w	3500K	9,975
			4000K	10,050
			5000K	10,125
	11,700	90w	3500K	11,700
			4000K	11,790
			5000K	11,880
	FVTB-8D			

DLC CHART

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DLC Primary use designation: Direct Linear Ambient Luminaires



MODEL#	CLASS	DLC PRODUCT ID
FVTB-4D-45/38/34-835/840/850 (A3L+B3)	Standard	PI6DDDW8
FVTB-8D-90/75/65-835/840/850 (A3L+B3)	Standard	PL34KKUR

STANDARD FEATURES

Field Selectable Power & Color



Select the desired output power or light color temperature by sliding the respective Output Power or CCT Selection Switch left or right to the desired value. CCT can be adjusted to 3500/4000/5000K, and Output Power can be adjusted to:

- 45w / 38w / 34w on 4ft models
- 90w / 75w / 65w on 8ft models

EMERGENCY BACKUP Options

Emergency Battery Backup (option: -EM500 / -EM1000 / -EM1800 / -EM2500)



FVTB series emergency backup models save time and cost in the installation. When there is a power outage, the emergency backup driver and battery will power the FVTB to a brightness of up to 2,500 lumen for at least 90 mins.

Options:

- **-EM500** 500 lumen for at least 90 mins
- **-EM1000** 1,000 lumen for at least 90 mins
- **-EM1800** 1,800 lumen for at least 90 mins
- **-EM2500** 2,500 lumen for at least 90 mins

CONTROL Options

Microwave Bi-level Motion & Daylight Harvesting Control (option: -MM)



Microwave occupancy sensors can detect motion even through plastic, glass, and thin non-metal materials. They can be mounted as high as 20 feet and feature a signature three-step dimming function, ideal for areas that need a gradual change in lighting before completely turning off. An optional daylight harvesting function reduces electric lighting in building interiors when natural daylight is available. Control parameters can be adjusted with the dip switches on the sensor, or an optional wireless commissioning device.



SE-BC-ANT7
(factory installed)



SE-BC-RC-100

Optional wireless commissioning device can be purchase separately to access extra sensor settings than the dip switches on the sensor.

Control Option: -MM Sensor Specification

Sensitivity	20%/50%/75%/100%*
Hold Time (before dim)	10s*/1min/5min/15min
Daylight Threshold	10/30*/50 Lux, or Disable
Daylight Harvesting#	Set to desired light level, Enable/Disable*
Stand-by Time(before turn off)	1min/30min/60min*, or Never
Stand-by Dimming Level	10%/30%*/50%
Detection Height	up to 20ft
Detection Radius	up to 25ft

*default setting

#SE-BC-RC-100 commissioning remote device is required to enable daylight harvesting function

Networked Lighting Control (option: -WBN / -WBM)



Network Lighting Controls (NLC) offer Luminaire Level Lighting Control (LLLC) based on Bluetooth-enabled Mesh Networking of Luminaires. Individual addressability enables luminaires to be communicated with each other within the zone/network. Luminaires can be grouped, trim and controlled by using the smart device app or connected wall switches. Scheduling, scene and sensors can be added for automation among the lights within the zone/group.

- **(-WBN)** Wireless bluetooth networked control (node only)
SKU: KEILTON-FA102
- **(-WBM)** Wireless bluetooth networked control with microwave occupancy and daylight sensor
SKU: KEILTON-FA102 & KEILTON-MWS105



KEILTON-FA102
(factory installed)



KEILTON-MWS105
(factory installed)



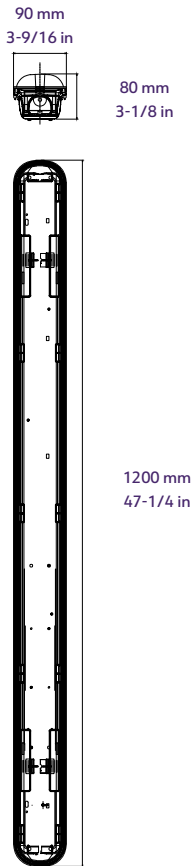
iOS/Andriod APP will be used to commissioning or customize settings networked controls.

Learn more, visit
www.PacLights.com/NLC/

DIMENSIONS

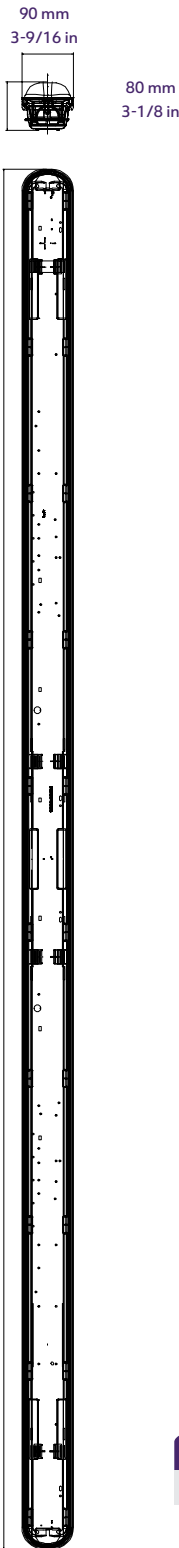
FVTB - 4D (4 Ft)

Weight 4.5 lbs



FVTB - 8D (8 Ft)

Weight 7.8 lbs



FINISHES	
all models	Gray

NETWORKED CONTROLS MADE EASY

Keilton+autani Networked Controls, a DLC® Qualified Networked Lighting Controls Product, make it easy for facilities to save energy, improve occupancy comfort and achieve code compliance by adding Luminaire Level Lighting Controls (LLLC) to indoor and outdoor applications. It allows for easy field installation of sensors and network nodes with selected PacLights controls ready fixtures. Using the Keilton app, nodes can be commissioned without the need for a gateway or internet access.

Keilton
+ autani



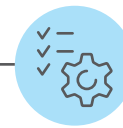
A Cost-Effective Decentralized Architecture

Direct Mobile Device Provisioning

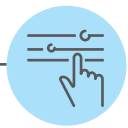
Best-In-Class Scale, Performance & Reliability



INSTALL



COMMISSION



CONTROL



LEARN MORE, VISIT
www.paclights.com/NLC



FEATURES

- Luminaire Level Lighting Control (LLLC)
- Bluetooth-enabled Mesh Networking of Luminaires and Devices
- Individual Addressability, address individual or multiple luminaires
- High-end and Low-end Trim
- Zoning & Grouping
 - ◊ Add and control up to 100 devices per zone
 - ◊ Add unlimited zones to scale for bigger installation
 - ◊ Create unlimited groups (combination of sensor or network nodes) within a zone
 - ◊ Link and control the whole group or zone
- Scene control
 - ◊ Create and link scenes to individual lights or groups within a zone
 - ◊ Select scene with App or wall switch
- Time Scheduling for individual lights, groups or scenes
- Sensors integrated with BLE, occupancy and daylight sensing
- Multi-level Dimming, Daylight Harvesting and Occupancy controls
- Manual/Automatic ON/OFF and Automatic partial ON/OFF control capability
- Control with wireless wall switch or smart device
- Secure commissioning with Keilton App
- Up to 100 ft node-to-node and 50 ft node-to-device
- Demand Response option (works with OpenADR gateways)
- Controlled 120v 20A Receptacle available
- Other control features to meet code compliance



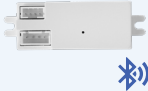
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DLC and its logo is a trademark of DesignLights Consortium.
Keilton+autani is the qualified system name listed on the DLC Networked Lighting Controls QPL.



NETWORKED CONTROLS for FVTB series

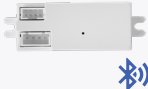
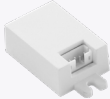
PacLights

NETWORKED NODE ONLY

SKU		DESCRIPTION	FUNCTION	ORDER CODE
KEILTON-FA102		KEILTON FA102 DC BLUETOOTH MESH NODE	Enable network controlled - on & off, dim, trim, zone, group, scene & schedule, etc.	-WBN

* factory installed, other components may be needed

NETWORKED NODE WITH SENSOR

SKU		DESCRIPTION	FUNCTION	ORDER CODE
KEILTON-FA102		KEILTON FA102 DC BLUETOOTH MESH NODE	Enable network controlled - on & off, dim, trim, zone, group, scene & schedule, etc.	-WBM
KEILTON-MWS105		KEILTON MWS105 ECO MICRO-WAVE DLH SENSOR	Enable sensor functionality to a NLC node - Microwave occupancy & daylight (harvesting) sensing	

* factory installed, other components may be needed

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