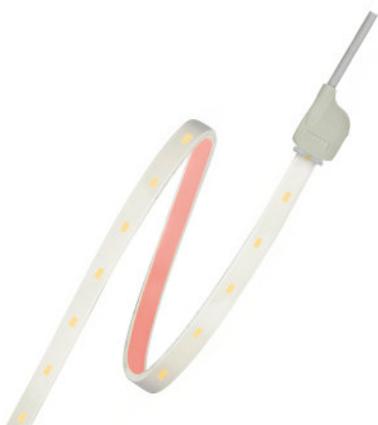


## LINEARlight POWER Flex Protect

LED modules for professional and industrial applications



### Areas of application

- Facade accent lighting
- Ceiling integration
- Wall integration
- Cove lighting
- Machine lighting
- Path lighting
- Suitable for outdoor use

### Product benefits

- High luminous flux
- Great design freedom thanks to flexibility and cuttability of module
- High-performance silicon for extremely long life and flexibility
- Simple connection thanks to premounted connectors
- Extraordinary design and high quality materials
- Toolless connection with the optional CONNECTsystem
- Easy mounting on many smooth surfaces thanks to self-adhesive tape at the back

### Product features

- Flexible and cuttable LED strip
- Luminous flux: up to 1,400 lm/m
- Type of protection: IP67
- Dimmable
- Fine White (3.5 SDCM)
- Salt mist proof
- Highly UV-resistant



## Product family datasheet

### Technical data

#### Electrical data

Product description	Nominal voltage	Nominal current	Rated wattage	Nominal wattage per meter	Reverse Voltage	Type of current
LF06P2 -W4F-830-P	24.0 V	4 A	96.00 W	15.5 W	24 V	DC
LF06P2 -W4F-830-P	24.0 V	3.1 A	79.10 W	15.5 W	24 V	DC
LF06P2 -W4F-840-P	24.0 V	4 A	96.00 W	14.0 W	24 V	DC
LF06P2 -W4F-840-P	24.0 V	3 A	71.40 W	14.0 W	24 V	DC
LF06P2 -W4F-876-P	24.0 V	4 A	88.00 W	17.3 W	25 V	DC
LF06P -W4F-827-P <sup>1)</sup>	24.0 V		72.00 W	24.0 W	25 V	DC
LF06P2 -W4F-835-P	24.0 V	3 A	71.40 W	14.0 W	24 V	DC
LF06P2 -W4F-860-P	24.0 V	3 A	71.40 W	14.0 W	24 V	DC
LF06P2 -W4F-890-P	24.0 V	3 A	71.40 W	14.0 W	24 V	DC
LF06P2 -W4F-827-P	24.0 V	3.1 A	79.10 W	15.5 W	24 V	DC

Product description	Input voltage range
LF06P2 -W4F-830-P	23...25 V
LF06P2 -W4F-830-P	23...25 V
LF06P2 -W4F-840-P	23...25 V
LF06P2 -W4F-840-P	23...25 V
LF06P2 -W4F-876-P	23...25 V
LF06P -W4F-827-P <sup>1)</sup>	23...25 V
LF06P2 -W4F-835-P	23...25 V
LF06P2 -W4F-860-P	23...25 V
LF06P2 -W4F-890-P	23...25 V
LF06P2 -W4F-827-P	23...25 V

<sup>1)</sup> Modules perfectly matched to 24 V OSRAM OPTOTRONIC electronic control gear/For current photometric data and important safety, installation and application information, see [www.osram.com/led-systems/](http://www.osram.com/led-systems/)All the technical parameters apply to the entire module. In view of the complex manufacturing process for light emitting diodes, the typical values given above for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from the typical values

## Product family datasheet

### Photometrical data

Product description	Color temperature	Color rendering index Ra	Light color (designation)	Light color LED	Luminous flux per meter	Luminous flux
LF06P2 -W4F-830-P	3000 K	>80	White	White	1250 lm	6380 lm
LF06P2 -W4F-830-P	3000 K	>80	White	White	1250 lm	6380 lm
LF06P2 -W4F-840-P	4000 K	>80	Cool White	White	1400 lm	7140 lm
LF06P2 -W4F-840-P	4000 K	>80	Cool White	White	1400 lm	7140 lm
LF06P2 -W4F-876-P	7600 K	>80		White	1400 lm	7140 lm
LF06P -W4F-827-P <sup>1)</sup>	2700 K	>80	Warm White	White	960 lm	2880 lm
LF06P2 -W4F-835-P	3500 K	>80	White	White	1350 lm	
LF06P2 -W4F-860-P	6000 K	>80	Daylight	White	1400 lm	7140 lm
LF06P2 -W4F-890-P	9000 K	>80	SKYWHITE	White	1400 lm	7140 lm
LF06P2 -W4F-827-P	2700 K	>80	Warm White	White	1250 lm	6380 lm

Product description	Luminous efficacy
LF06P2 -W4F-830-P	81 lm/W
LF06P2 -W4F-830-P	81 lm/W
LF06P2 -W4F-840-P	100 lm/W
LF06P2 -W4F-840-P	100 lm/W
LF06P2 -W4F-876-P	
LF06P -W4F-827-P <sup>1)</sup>	
LF06P2 -W4F-835-P	96 lm/W
LF06P2 -W4F-860-P	100 lm/W
LF06P2 -W4F-890-P	100 lm/W
LF06P2 -W4F-827-P	81 lm/W

<sup>1)</sup> Modules perfectly matched to 24 V OSRAM OPTOTRONIC electronic control gear/For current photometric data and important safety, installation and application information, see [www.osram.com/led-systems/](http://www.osram.com/led-systems/)All the technical parameters apply to the entire module. In view of the complex manufacturing process for light emitting diodes, the typical values given above for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from the typical values

## Product family datasheet

### Light technical data

Product description	Beam angle
LF06P2 -W4F-830-P	120 °
LF06P2 -W4F-830-P	120 °
LF06P2 -W4F-840-P	120 °
LF06P2 -W4F-840-P	120 °
LF06P2 -W4F-876-P	120 °
LF06P -W4F-827-P <sup>1)</sup>	120 °
LF06P2 -W4F-835-P	120 °
LF06P2 -W4F-860-P	120 °
LF06P2 -W4F-890-P	120 °
LF06P2 -W4F-827-P	120 °

<sup>1)</sup> Modules perfectly matched to 24 V OSRAM OPTOTRONIC electronic control gear/For current photometric data and important safety, installation and application information, see [www.osram.com/led-systems/](http://www.osram.com/led-systems/)All the technical parameters apply to the entire module. In view of the complex manufacturing process for light emitting diodes, the typical values given above for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from the typical values

### LED module information

Product description	Number of LEDs per module	Number of LEDs per meter
LF06P2 -W4F-830-P	204	40
LF06P2 -W4F-830-P	204	40
LF06P2 -W4F-840-P	204	40
LF06P2 -W4F-840-P	204	40
LF06P2 -W4F-876-P	204	40
LF06P -W4F-827-P <sup>1)</sup>	120	
LF06P2 -W4F-835-P	204	40
LF06P2 -W4F-860-P	204	40
LF06P2 -W4F-890-P	204	40
LF06P2 -W4F-827-P	204	40

<sup>1)</sup> Modules perfectly matched to 24 V OSRAM OPTOTRONIC electronic control gear/For current photometric data and important safety, installation and application information, see [www.osram.com/led-systems/](http://www.osram.com/led-systems/)All the technical parameters apply to the entire module. In view of the complex manufacturing process for light emitting diodes, the typical values given above for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from the typical values

## Product family datasheet

### Dimensions & weight

Product description	Length	Length – smallest unit	Width	Height	Cable length
LF06P2 -W4F-830-P	5100 mm	150.0 mm	11.0 mm	3.7 mm	500.0 mm
LF06P2 -W4F-830-P	5100 mm	150.0 mm	11.0 mm	3.7 mm	
LF06P2 -W4F-840-P	5100 mm	150.0 mm	11.0 mm	3.7 mm	500.0 mm
LF06P2 -W4F-840-P	5100 mm	150.0 mm	11.0 mm	3.7 mm	500.0 mm
LF06P2 -W4F-876-P	5100 mm	150.0 mm	11.0 mm	3.7 mm	500.0 mm
LF06P -W4F-827-P <sup>1)</sup>	3000 mm <sup>2)</sup>	150.0 mm	11.0 mm	4.5 mm	500.0 mm
LF06P2 -W4F-835-P	5100 mm	150.0 mm	11.0 mm	3.7 mm	500.0 mm
LF06P2 -W4F-860-P	5100 mm	150.0 mm	11.0 mm	3.7 mm	500.0 mm
LF06P2 -W4F-890-P	5100 mm	150.0 mm	11.0 mm	3.7 mm	500.0 mm
LF06P2 -W4F-827-P	5100 mm	150.0 mm	11.0 mm	3.7 mm	

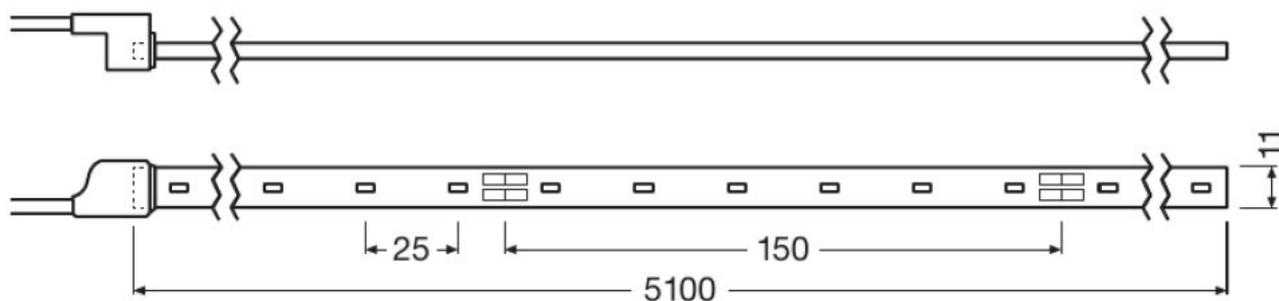
Product description	Product weight
LF06P2 -W4F-830-P	280.00 g
LF06P2 -W4F-830-P	280.00 g
LF06P2 -W4F-840-P	280.00 g
LF06P2 -W4F-840-P	280.00 g
LF06P2 -W4F-876-P	280.00 g
LF06P -W4F-827-P <sup>1)</sup>	241.00 g
LF06P2 -W4F-835-P	280.00 g
LF06P2 -W4F-860-P	280.00 g
LF06P2 -W4F-890-P	280.00 g
LF06P2 -W4F-827-P	280.00 g

<sup>1)</sup> Modules perfectly matched to 24 V OSRAM OPTOTRONIC electronic control gear/For current photometric data and important safety, installation and application information, see [www.osram.com/led-systems/](http://www.osram.com/led-systems/)All the technical parameters apply to the entire module. In view of the complex manufacturing process for light emitting diodes, the typical values given above for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from the typical values

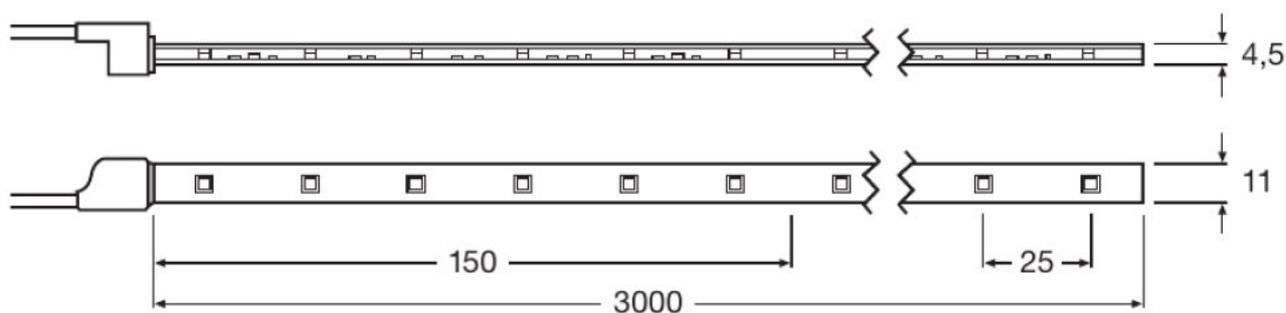
<sup>2)</sup> LED pitch 25 mm

## Product family datasheet

### Product line drawing



LF06P2 -W4F-830-P, LF06P2 -W4F-830-P, LF06P2 -W4F-840-P, LF06P2 -W4F-840-P, LF06P2 -W4F-876-P, LF06P2 -W4F-835-P, LF06P2 -W4F-860-P, LF06P2 -W4F-890-P, LF06P2 -W4F-827-P



LF06P -W4F-827-P

## Temperatures & operating conditions

Product description	Temperature range in operation
LF06P2 -W4F-830-P	-20...50 °C
LF06P2 -W4F-830-P	-20...50 °C
LF06P2 -W4F-840-P	-20...50 °C
LF06P2 -W4F-840-P	-20...50 °C
LF06P2 -W4F-876-P	
LF06P -W4F-827-P <sup>1)</sup>	-20...85 °C <sup>2)</sup>
LF06P2 -W4F-835-P	-20...50 °C
LF06P2 -W4F-860-P	-20...50 °C
LF06P2 -W4F-890-P	-20...50 °C
LF06P2 -W4F-827-P	-20...50 °C

<sup>1)</sup> Modules perfectly matched to 24 V OSRAM OPTOTRONIC electronic control gear/For current photometric data and important safety, installation and application information, see [www.osram.com/led-systems/](http://www.osram.com/led-systems/)All the technical parameters apply to the entire module. In view of the complex manufacturing process for light emitting diodes, the typical values given above for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from the typical values

<sup>2)</sup> At the  $T_c$  point

## Lifespan

Product description	Lifespan
LF06P2 -W4F-830-P	50000 h <sup>2)</sup>
LF06P2 -W4F-830-P	50000 h <sup>2)</sup>
LF06P2 -W4F-840-P	50000 h <sup>2)</sup>
LF06P2 -W4F-840-P	50000 h <sup>2)</sup>
LF06P2 -W4F-876-P	50000 h <sup>2)</sup>
LF06P -W4F-827-P <sup>1)</sup>	50000 h <sup>3)</sup>
LF06P2 -W4F-835-P	50000 h <sup>2)</sup>
LF06P2 -W4F-860-P	50000 h <sup>2)</sup>
LF06P2 -W4F-890-P	50000 h <sup>2)</sup>
LF06P2 -W4F-827-P	50000 h <sup>2)</sup>

<sup>1)</sup> Modules perfectly matched to 24 V OSRAM OPTOTRONIC electronic control gear/For current photometric data and important safety, installation and application information, see [www.osram.com/led-systems/](http://www.osram.com/led-systems/)All the technical parameters apply to the entire module. In view of the complex manufacturing process for light emitting diodes, the typical values given above for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from the typical values

<sup>2)</sup> L70/B50 at 40 °C

<sup>3)</sup> L70/B50 at  $T_c$  40 °C

## Product family datasheet

### Capabilities

Product description	Dimmable
LF06P2 -W4F-830-P	Yes
LF06P2 -W4F-830-P	
LF06P2 -W4F-840-P	Yes
LF06P2 -W4F-840-P	
LF06P2 -W4F-876-P	Yes
LF06P -W4F-827-P <sup>1)</sup>	Yes
LF06P2 -W4F-835-P	
LF06P2 -W4F-860-P	
LF06P2 -W4F-890-P	
LF06P2 -W4F-827-P	

<sup>1)</sup> Modules perfectly matched to 24 V OSRAM OPTOTRONIC electronic control gear/For current photometric data and important safety, installation and application information, see [www.osram.com/led-systems/](http://www.osram.com/led-systems/)All the technical parameters apply to the entire module. In view of the complex manufacturing process for light emitting diodes, the typical values given above for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from the typical values

### Certificates & standards

Product description	Energy consumption	Type of protection	Energy efficiency class
LF06P2 -W4F-830-P	4 kWh/1000h	IP67	A+ <sup>2)</sup>
LF06P2 -W4F-830-P		IP67	A+ <sup>2)</sup>
LF06P2 -W4F-840-P	4 kWh/1000h	IP67	A+ <sup>2)</sup>
LF06P2 -W4F-840-P		IP67	A+ <sup>2)</sup>
LF06P2 -W4F-876-P	3 kWh/1000h	IP67	A+ <sup>2)</sup>
LF06P -W4F-827-P <sup>1)</sup>	4 kWh/1000h	IP67	A <sup>2)</sup>
LF06P2 -W4F-835-P		IP67	A+ <sup>2)</sup>
LF06P2 -W4F-860-P		IP67	A+ <sup>2)</sup>
LF06P2 -W4F-890-P		IP67	A+ <sup>2)</sup>
LF06P2 -W4F-827-P		IP67	A+ <sup>2)</sup>

Product description	Standards
LF06P2 -W4F-830-P	CE/UL
LF06P2 -W4F-830-P	CE/UL
LF06P2 -W4F-840-P	CE/UL
LF06P2 -W4F-840-P	CE/UL
LF06P2 -W4F-876-P	CE/UL
LF06P -W4F-827-P <sup>1)</sup>	Acc. to EN 60598-1
LF06P2 -W4F-835-P	CE/UL
LF06P2 -W4F-860-P	CE/UL
LF06P2 -W4F-890-P	CE/UL
LF06P2 -W4F-827-P	CE/UL

<sup>1)</sup> Modules perfectly matched to 24 V OSRAM OPTOTRONIC electronic control gear/For current photometric data and important safety, installation and application information, see [www.osram.com/led-systems/](http://www.osram.com/led-systems/)All the technical parameters apply to the entire module. In view of the complex manufacturing process for light emitting diodes, the typical values given above for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from

## Product family datasheet

the typical values

2) Applicable on smallest operable unit

### Logistical data

Product description	Temperature range at storage
LF06P2 -W4F-830-P	-40...100 °C
LF06P2 -W4F-830-P	-40...100 °C
LF06P2 -W4F-840-P	-40...100 °C
LF06P2 -W4F-840-P	-40...100 °C
LF06P2 -W4F-876-P	
LF06P -W4F-827-P <sup>1)</sup>	-20...85 °C
LF06P2 -W4F-835-P	-40...100 °C
LF06P2 -W4F-860-P	-40...100 °C
LF06P2 -W4F-890-P	-40...100 °C
LF06P2 -W4F-827-P	-40...100 °C

<sup>1)</sup> Modules perfectly matched to 24 V OSRAM OPTOTRONIC electronic control gear/For current photometric data and important safety, installation and application information, see [www.osram.com/led-systems/](http://www.osram.com/led-systems/)All the technical parameters apply to the entire module. In view of the complex manufacturing process for light emitting diodes, the typical values given above for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from the typical values

### Equipment / Accessories

- Simplified connection with optional matching CONNECTsystem
- Quick installation with optional SLIM TRACK System
- Perfectly matched to OPTOTRONIC 24 V electronic control gears

### Application advice

For more detailed application information and graphics please see product datasheet.

### Sales and Technical Support

Sales and Technical Support [www.osram.com](http://www.osram.com)

### Country specific information

Product description	Product code	METEL-Code	SEG-No.	STK number	UK Org
LF06P2 -W4F-830-P	4008321790668	-	-	4030314	-
LF06P2 -W4F-840-P	4008321789945	-	-	4030317	-
LF06P2 -W4F-876-P	4008321789969	-	-	4030318	-
LF06P -W4F-827-P	4008321621894	OSRLF06PW4F827P	-	-	-

## Product family datasheet

### Download Data

File	
	Brochures Technical application guide LINEARlight Flex Protect (GB)
	Declarations of conformity EC-DoC LF06P2-W4F-8XX-P
	Declarations of conformity Man-DoC LF06P2-W4F-xxx-P (GB)
	Eulumdat LINEARlight POWER Flex Protect G2 - LF06P2-W4F-830-P
	Product Datasheet 343540_LINEARlight POWER Flex Protect G2 LF06P2-P
	Brochures 723873_Light is freedom of design (GB)
	Eulumdat LINEARlight POWER Flex Protect G2 - LF06P2-W4F-840-P
	Eulumdat LINEARlight POWER Flex Protect G2 - LF06P2-W4F-876-P
	Addon Technical Information ATI LINEARlight POWER FLEX PROTECT LF06P-P (GB)
	Addon Technical Information BinningSheet - LF06P2-P 2700K
	Declarations of conformity EC-DoC LINEARLight POWER Flex Protect LF06P-P
	Declarations of conformity EC-DoC LF06P-P LINEARLight POWER Flex P
	Declarations of conformity EC Man-DoC LF06P-P LINEARLight POWER
	Eulumdat LINEARlight POWER Flex Protect LF06P-W4F-827-P

### Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4008321790668	LF06P2 -W4F-830-P	Shipping carton box 8	365 mm x 286 mm x 366 mm	38.21 dm <sup>3</sup>	6497.00 g
4052899400030	LF06P2 -W4F-830-P	Shipping carton box 8	365 mm x 286 mm x 366 mm	38.21 dm <sup>3</sup>	6458.00 g
4008321789945	LF06P2 -W4F-840-P	Shipping carton box 8	365 mm x 286 mm x 366 mm	38.21 dm <sup>3</sup>	6458.00 g
4052899372795	LF06P2 -W4F-840-P	Shipping carton box 8	365 mm x 286 mm x 366 mm	38.21 dm <sup>3</sup>	6079.00 g
4008321789969	LF06P2 -W4F-876-P	Shipping carton box 8	365 mm x 286 mm x 366 mm	38.21 dm <sup>3</sup>	6458.00 g

## Product family datasheet

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4008321621894	LF06P -W4F-827-P	Shipping carton box 8	366 mm x 343 mm x 290 mm	36.41 dm <sup>3</sup>	5397.92 g
4052899372771	LF06P2 -W4F-835-P	Shipping carton box 8	365 mm x 286 mm x 366 mm	38.21 dm <sup>3</sup>	6458.00 g
4052899372818	LF06P2 -W4F-860-P	Shipping carton box 8	365 mm x 286 mm x 366 mm	38.21 dm <sup>3</sup>	6458.00 g
4052899372832	LF06P2 -W4F-890-P	Shipping carton box 8	365 mm x 286 mm x 366 mm	38.21 dm <sup>3</sup>	6458.00 g
405289942721	LF06P2 -W4F-827-P	Shipping carton box 8	365 mm x 286 mm x 366 mm	38.21 dm <sup>3</sup>	6458.00 g

The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

### Accessories Optional

Product description	Accessory name	Accessory code
LF06P2 -W4F-830-P	LINEARlight FLEX, -2100	▶ 4008321978998
LF06P2 -W4F-830-P	LINEARlight FLEX Protect, -ENDCAP IP67 LP	▶ 4052899902572
LF06P2 -W4F-830-P	LINEARlight FLEX Protect, -2PIN FLEX IP SC	▶ 4008321841919
LF06P2 -W4F-830-P	LINEARlight FLEX Protect, -CONN FLEX IP SC	▶ 4008321841933
LF06P2 -W4F-830-P	LINEARlight Colormix Flex, -CONN FLEX SC	▶ 4008321832474
LF06P2 -W4F-830-P	LINEARlight FLEX, -2100	▶ 4008321978998
LF06P2 -W4F-830-P	LINEARlight FLEX Protect, -ENDCAP IP67 LP	▶ 4052899902572
LF06P2 -W4F-830-P	LINEARlight FLEX Protect, -2PIN FLEX IP SC	▶ 4008321841919
LF06P2 -W4F-830-P	LINEARlight FLEX Protect, -CONN FLEX IP SC	▶ 4008321841933
LF06P2 -W4F-830-P	LINEARlight Colormix Flex, -CONN FLEX SC	▶ 4008321832474
LF06P2 -W4F-840-P	LINEARlight FLEX, -2100	▶ 4008321978998
LF06P2 -W4F-840-P	LINEARlight FLEX Protect, -ENDCAP IP67 LP	▶ 4052899902572
LF06P2 -W4F-840-P	LINEARlight FLEX Protect, -2PIN FLEX IP SC	▶ 4008321841919
LF06P2 -W4F-840-P	LINEARlight FLEX Protect, -CONN FLEX IP SC	▶ 4008321841933
LF06P2 -W4F-840-P	LINEARlight Colormix Flex, -CONN FLEX SC	▶ 4008321832474
LF06P2 -W4F-840-P	LINEARlight FLEX, -2100	▶ 4008321978998
LF06P2 -W4F-840-P	LINEARlight FLEX Protect, -ENDCAP IP67 LP	▶ 4052899902572
LF06P2 -W4F-840-P	LINEARlight FLEX Protect, -2PIN FLEX IP SC	▶ 4008321841919
LF06P2 -W4F-840-P	LINEARlight FLEX Protect, -CONN FLEX IP SC	▶ 4008321841933
LF06P2 -W4F-840-P	LINEARlight Colormix Flex, -CONN FLEX SC	▶ 4008321832474
LF06P2 -W4F-876-P	LINEARlight FLEX, -2100	▶ 4008321978998
LF06P2 -W4F-876-P	LINEARlight FLEX Protect, -ENDCAP IP67 LP	▶ 4052899902572
		▶

## Product family datasheet

LF06P2 -W4F-876-P	LINEARlight FLEX Protect, -2PIN FLEX IP SC	4008321841919
LF06P2 -W4F-876-P	LINEARlight FLEX Protect, -CONN FLEX IP SC	▶ 4008321841933
LF06P2 -W4F-876-P	LINEARlight Colormix Flex, -CONN FLEX SC	▶ 4008321832474
LF06P -W4F-827-P	LINEARlight FLEX Protect, -2PIN Protect	▶ 4008321977113
LF06P -W4F-827-P	LINEARlight FLEX Protect, -2CONN Protect	▶ 4008321977137
LF06P -W4F-827-P	LINEARlight FLEX Protect, -ENDCAP Protect	▶ 4008321977151
LF06P -W4F-827-P	LINEARlight FLEX Protect, -FIXTURE PROTECT	▶ 4008321644756
LF06P -W4F-827-P	LINEARlight FLEX, -2100	▶ 4008321978998

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### Disclaimer

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.