



## DL-FLEX-OD & DL-FLEX-OD-HO

LED FLEXIBLE LINEAR WET LOCATION  
DL-FLEX-OD STATIC SERIES

Type	
Project	
Catalog No.	



### DESCRIPTION

**DL-FLEX-OD & DL-FLEX-OD-HO** is an outdoor lighting system featuring a variety of control options. Made of highly flexible material that can conform to most surfaces. For best results, make bends on center between the LEDs with a bend angle no less than 45 degrees.

Note: DL-FLEX-OD is cut-to-length and, therefore, considered custom and non-returnable.

### SPECIFICATIONS

Beam Angle	120°
Input Voltage	24V DC
Lamp Life	50,000 hours
Dimensions (per section)	5/8"W x 5/16"H See Ordering Information for exact lengths.
LEDs (per ft)	18
LED Spacing	5/8"
Operating Temperature *	-22°F - 140°F
Max Run †	DL-FLEX-OD : 30 ft DL-FLEX-OD-HO : 20 ft
Min Run †	~ 3-15/16"
Mounting	Clips or Channel
Environment ‡	Dry, Damp, and Wet location IP66
Certifications	US LISTED
Warranty	5 Years – see published warranty terms for detailed information.

\* Exceeding the operating temperature values may damage the LEDs by reducing the lifespan, lumen output, and adversely impact color consistency. It is recommended adequate airflow and heatsinking be taken into consideration in the installation and application of this product. Improper thermal management may lead to premature product failure.

† Single runs can not exceed max run values. Min run indicates minimum increments.

‡ This product cannot be submersed in water.

### LUMEN DATA

Part Number	Color Temp *	Watts † (per ft)	Lumens (per ft)	Efficacy (lm/W)
DL-FLEX-OD	Warm White	1.3	115	82
	Neutral White	1.3	120	92
DL-FLEX-OD-HO	Warm White	3.25	260	80
	Neutral White	3.25	280	86

\* Warm White: 3000-3400K, Neutral White: 3500-4000K

† Max value

Contact factory for other color options.

### FEATURES

- Low power consumption, low heat output.
- No UV/IR radiation emitted, no mercury.
- For a 90° bend or tighter, do so at the cutting mark.

### APPLICATIONS

- Outdoor gardens
- Path and contour marking
- Outdoor display lighting
- Bathroom lighting
- Signage
- Accent and edge lighting
- Backlighting



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**ORDERING INFORMATION** - Note: DL-FLEX-OD is cut-to-length and, therefore, considered custom and non-returnable.

Step	Nominal Length (ft)	Model	Color
1 Specify the fixture and length	1 to 30 : See chart below for exact lengths.	DL-FLEX-OD	-WW (3000 – 3400K)
		DL-FLEX-OD-HO	-NW * (3500 – 4000K)
	Input Type	Description	Application
2 Specify the input connection	DL-FLEX-OD-PT-M	Wet location male connector	Plug and Play
	DL-FLEX-OD-PC-HW	Bare wire	Hard Wire
	Output Type	Description	Application
3 Specify the output connection	DL-FLEX-OD-PT-F	Wet location female connector	Plug and Play
	DL-FLEX-OD-PC-HW	Bare wire	Hard Wire
	DL-FLEX-OD-EC	End Cap	End the run
			End the run

### Example

Order below represents a 12ft run connecting to an 18 ft run.		
QTY	Part Number	Order Description
12	DL-FLEX-OD-WW	One 12 ft run of Warm White FLEX-OD with plug and play connectors.
1	DL-FLEX-OD-PT-M	
1	DL-FLEX-OD-PT-F	
18	DL-FLEX-OD-WW	One 18 ft run of Warm White FLEX-OD with an input connector and end cap.
1	DL-FLEX-OD-PT-M	
1	DL-FLEX-OD-EC	

### Length Chart for White Color Temperatures, Blue, and Green.

Order Length (feet)	Actual Length (+/- 1/2")
1	11'-13/16"
2	1' 11-5/8"
3	2' 11-7/16"
4	3' 11-1/4"
5	4' 11-1/16"
6	5' 10-7/8"
7	6' 10-11/16"
8	7' 10-1/2"
9	8' 10-5/16"
10	9' 10-1/8"

Order Length (feet)	Actual Length (+/- 1/2")
11	10' 9-15/16"
12	11' 9-3/4"
13	12' 9-9/16"
14	13' 9-3/8"
15	14' 9-3/16"
16	15' 9"
17	16' 8-13/16"
18	17' 8-5/8"
19	18' 8-7/16"
20	19' 8-1/4"

Order Length (feet)	Actual Length (+/- 1/2")
21	20' 11-15/16"
22	21' 11-3/4"
23	22' 11-9/16"
24	23' 11-3/8"
25	24' 11-3/16"
26	25' 11"
27	26' 10-13/16"
28	27' 10-5/8"
29	28' 10-7/16"
30	29' 6-5/16"

### Notes :

- Add up to 1 to 1-1/4 inches to the specified length for the input and output connection options.
- Specified lengths in white color temperatures, green, and blue can be cut down by increments of 3-15/16 inches.  
Example : Desired length 20' 6". Order 21'. 21' = 20' 11-15/16".  
20' 11-15/16" – 3-15/16" = 20' 8"  
or  
20' 11-15/16" – 7-1/16" = 20' 4-7/8"



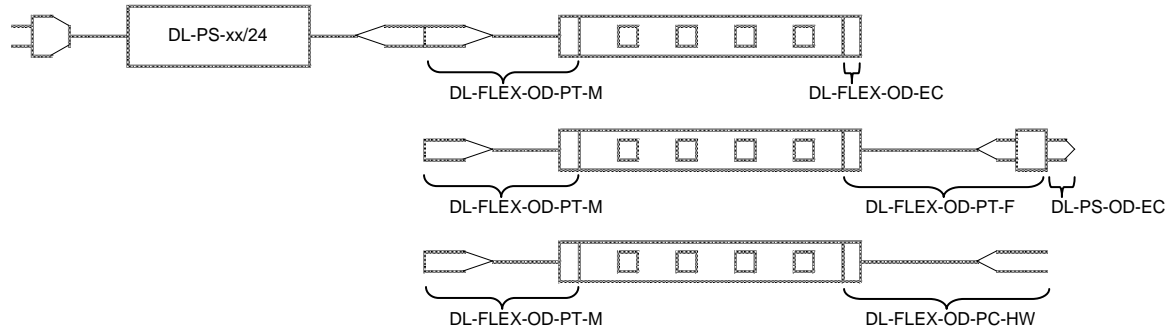
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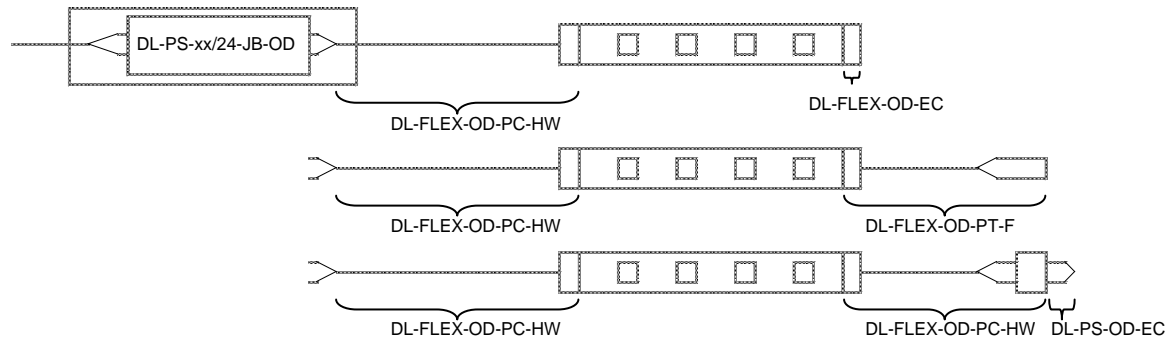
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**WIRING DIAGRAMS** – For reference purposes only. Not for installation. Not to scale.

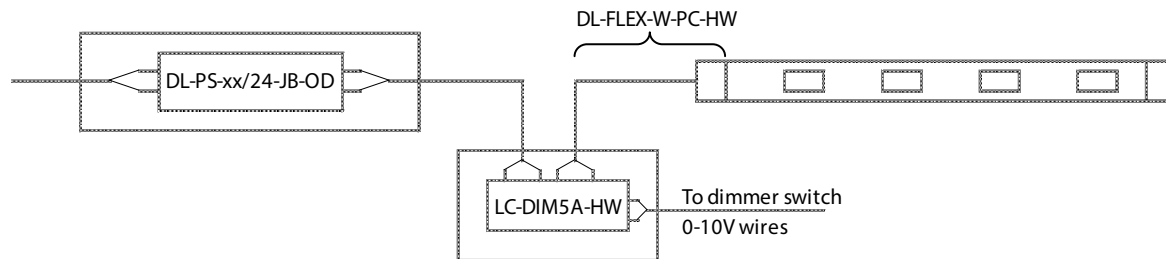
### Plug and Play



### Hard Wire



**Dimming Option** – See LC-DIM5A-HW specification sheet for more information





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### POWER SUPPLY– See Specification Sheets for more information.

If the Max Load of a power supply exceeds the fixture's Max Run, then you may install multiple runs per given power supply.

Wattage = Max power capacity of power supply. May need to be de-rated if operating at max temperature.

Max Load = Fixture quantity a power supply can power.

Max Run = Maximum length of a single run.

Hard-Wire Power Supplies Dry Location UL Listed (with Junction Box)		DL-FLEX-OD	DL-FLEX-OD-HO
		Max Run : 30 ft 1.3 W/ft	Max Run : 20 ft 3.25 W/ft
Model Number	Wattage	Max Load (ft)	Max Load (ft)
DL-PS-20/24-JBA	20	13	5
DL-PS-60/24-JBA	60	41	16
DL-PS-96/24-JBA	96	66	26

Hard-Wire Power Supplies Wet, Damp, or Dry Location UL Listed (with Junction Box)		DL-FLEX-OD	DL-FLEX-OD-HO
		Max Run : 30 ft 1.3 W/ft	Max Run : 20 ft 3.25 W/ft
Model Number	Wattage	Max Load (ft)	Max Load (ft)
DL-PS-80/24-JB-OD	80	55	22
DL-PS-96/24-JB-OD	96	66	26

Hard-Wire Power Supplies Dry Location UL Recognized (with Junction Box)		DL-FLEX-OD	DL-FLEX-OD-HO
		Max Run : 30 ft 1.3 W/ft	Max Run : 20 ft 3.25 W/ft
Model Number	Wattage	Max Load (ft)	Max Load (ft)
DL-PS-35/24-JB	35	24	9
DL-PS-60/24-JB	60	41	16
DL-PS-100/24-JB	96	66	26

Plug & Play Power Supplies Dry Location UL Listed		DL-FLEX-OD	DL-FLEX-OD-HO
		Max Run : 30 ft 1.3 W/ft	Max Run : 20 ft 3.25 W/ft
Model Number	Wattage	Max Load (ft)	Max Load (ft)
DL-PS-WP24/24	24	16	6
DL-PS-24/24	24	16	6
DL-PS-48/24	48	33	13
DL-PS-60/24	60	41	16
DL-PS-100/24	90	62	24
DL-PS-100/24-CL2 *	96	66	26

\* Class 2



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### TERMINATION OPTIONS (select one for input and one for output)

	Part Number	Description
	DL-FLEX-OD-PT-M	FLEX-OD Outdoor input power connector, clear wire * Pre-assembled at the beginning of FLEX-OD tape. Length: 6 inches
	DL-FLEX-OD-PT-F	FLEX-OD Outdoor output power connector, clear wire * Pre-assembled at the end of FLEX-OD tape. Length: 6 inches, Lock Nut Diameter: 11/16 inch Requires DL-PS-OD-EC to seal connector if not connecting to another run.
	DL-FLEX-OD-PC-HW	FLEX-OD bare wire power lead wires, clear wire * Pre-assembled at the beginning or end of FLEX-OD tape. Length: 6 inches
	DL-FLEX-OD-EC	FLEX-OD end cap

### OUTDOOR CONNECTION CABLES

	Part Number	Description
	DL-PS-OD-2Y	2-Way power splitter, clear wire * Overall Length: 13 inches Length of Split Lead: 6 inches Lock Nut Diameter: 11/16 inch
	DL-PS-OD-3Y	3-Way power splitter, clear wire * Overall Length: 13 inches Length of Split Lead: 6 inches Lock Nut Diameter: 11/16 inch
	DL-PS-OD-EC	Outdoor DC output power connector end cap Must be attached to the end of any open run.

	Part Number	Description
	DL-PS-OD-EXT18	Extension cable, clear wire * Length: 18 inches Lock Nut Diameter: 11/16 inch
	DL-PS-OD-EXT48	Extension cable, clear wire * Length: 48 inches Lock Nut Diameter: 11/16 inch
	DL-PS-OD-EXT96	Extension cable, clear wire * Length: 96 inches Lock Nut Diameter: 11/16 inch

\* All dimensions are nominal



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### DIMMING OPTIONS

DS-DV-TV-WH	Wall-Plate Dimmer
LC-DIM5A	0-10V Plug & Play Dimmer
LC-DIM5A-HW	0-10V Hardwire Dimmer
LC-200-RPT	Power Repeater
LC-DIM200-RF-HW	Simple Hand-held Radio Frequency Dimmer Controller
LC-RF-400H-DIM	Hand-held Radio Frequency Dimmer Controller
LC-RF-400W-DIM	Wall Mounted Radio Frequency Dimmer Controller
LC-RF-402W-DIM	Wall Mounted Dual Radio Frequency Dimmer Controller
LC-RF-400-RCV	Radio Frequency Receiver

See our complete line of remote, wall mounted and hand-held [DIMMING OPTIONS](#) online for more information.



### MOUNTING ACCESSORIES

See Channel Feature Matrix below.

See our complete line of rough-in, recessed and surface mount [FLEXIBLE LINEAR MOUNTING CHANNELS](#) online for more information.





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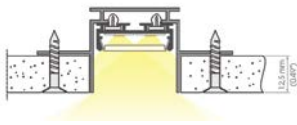
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### CHANNEL FEATURE MATRIX

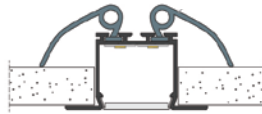
	ROUGH-IN				BASIC
	CH-RI-11	CH-RI-12	CH-RI-13	CH-RI-14	DL-FLEX-OD-CH6
DL-FLEX-UP	•	•	•	•	•
DL-FLEX-HO	•	•	•	•	•
DL-FLEX-UP-ULTRA	•	•	•	•	•
DL-FLEX-HD	•	•	•	•	•
DL-FLEX-UP-RGB	•	•	•	•	•
DL-FLEX-UP-CTA	•	•	•	•	•
DL-FLEX-OD	•	•	•	•	•
Surface Mounting			C	C/E	D
45° Mounting					
Recessed – For Miter Grooves					
Rough-in – For Walls & Ceilings	A/B	A	A	A	
Adjustable Mounting					
Outdoor Mounting					•
Flangeless			•	•	•
Flanged	•	•			
Lens Included					
Lensless					•
Lens – UV and Fire Rated up to 240F option	•	•	•		
Small Profile Depth – Diffused Light					•
Medium Profile Depth – More Diffused Light					
Large Profile Depth – Best Diffused Light	•	•	•	•	
Aluminum – Anodized	•	•	•	•	•
MDF (easy paintable)					
6 Ft. Length					•
6-1/2 Ft. Length (2 meters)	•	•	•	•	

### SUGGESTED MOUNTING TECHNIQUES

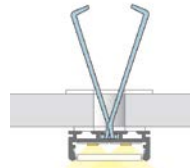
**A** Drywall Recessed Rough-In Mounting with Channel Housing



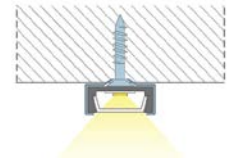
**B** Drywall Recessed Rough-In Mounting with Spring Clip



**C** Surface Mounting onto Drywall or Drop Ceilings



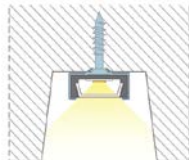
**D** Surface Mounting with Bracket



**E** Surface mounting by Sliding onto Flat Head Screws



**F** Recessed Mounting into Mitered Groove with Bracket



**G** Recessed Mounting into a Mitered Groove using a flanged Channel

