

LED SYSTEMS

The most important trend in lighting technology is the move towards systems... we started this trend with THE SYSTEM SOLUTION®, a family of optimally balanced energy saving lamps and ballast combinations. We are now extending that trend with LED systems for the lighting market.

LED systems are quickly becoming the light source of choice for signage applications due to their ruggedness, reliability, long life, energy efficiency and low maintenance requirements. They have also opened new avenues in lighting with their color mixing and color sequencing capabilities. They offer unique capabilities for architectural enhancements and decorative lighting due to their small sizes and system flexibility.

OSRAM SYLVANIA has the competitive advantage in the arena of LED systems with years of experience in designing and developing discrete LEDs, LED modules and OPTOTRONIC® electronic LED power supplies and controls. Our global network of design and manufacturing brings LED, electronics, and lighting systems knowledge together to produce innovative, efficient, environmentally friendly and energy saving systems. Our LED systems are also covered by our comprehensive LED system warranty.

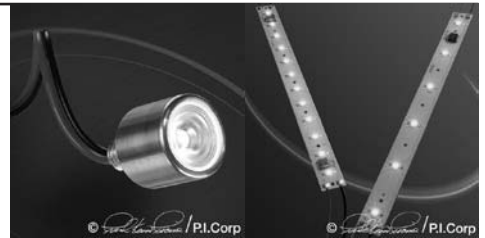
LED ADVANTAGES

- Low energy consumption
- Long service life
- Directional distribution of light
- High color efficiency
- Small size
- Flexible lighting solutions
- No IR/UV radiation
- Innovative system solutions

Consult Ballast section, page 185 for listings of OPTOTRONIC LED power supplies and controls.

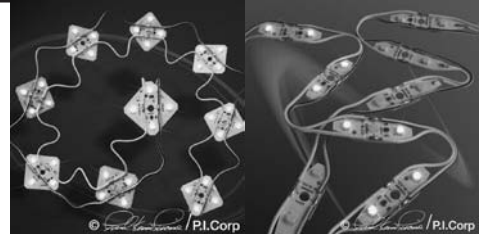
Hi-flux (HF) systems

Hi Flux LED modules are the latest generation of power LEDs. They offer exciting possibilities for LEDs in general illumination applications including signage, cove lighting, spot and flood lighting, display lighting, freezer and refrigeration lighting.



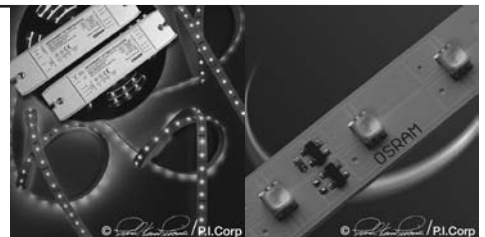
BACKlight Systems

Designed especially for signage applications the BACKlight System offers a versatile alternative to neon for channel letter signs. It comes in various colors and due to its high flexibility is also suitable for any application requiring LEDs oriented in a 3-dimensional setting. This product is conformally coated and is listed in the UL Sign Accessories Manual (SAM).



LINEARlight Colormix Systems

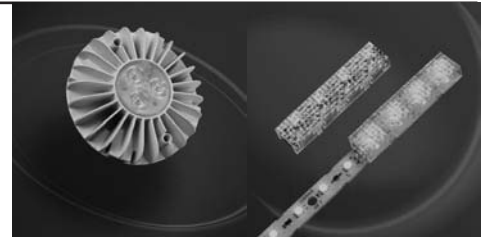
LINEARlight Colormix Flexible and Rigid modules along with OPTOTRONIC® RGB Control system offer simple dynamic control for creating colored lighting. The Colormix module features a 3-chip LED with high luminous efficacy to achieve an infinite number of colors. Connectors are available for both the flexible and rigid modules.



LED SYSTEMS CONTINUED...

LINEARlight Systems

Flexible LINEARlight reels are available with TOPLED or SIDELED options and in a variety of colors. The LINEARlight MULTIFLEX provides new dimensions for innovative lighting. POWERFLEX LINEARlight modules offer superior lumen output for white light. The LINEARlight modules are mounted on rigid boards which make them an ideal choice for small and sleek luminaires. Optics and connectors are available for the rigid modules.



Accessories: connectors, optics, thermal solutions

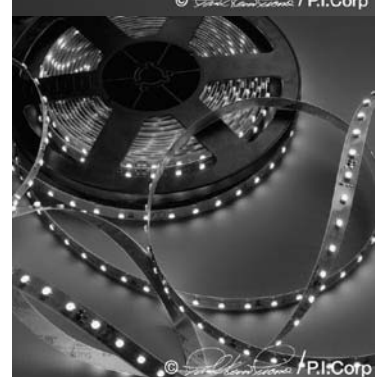
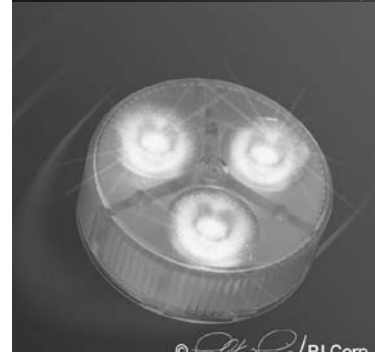
Accessories to LED modules aid in a complete system solution. Connector systems are designed to simplify the installation process by eliminating the need to solder wires. Optic accessories provide light intensification and mechanical protection. Thermal solutions supply proper thermal management allowing for an optimal service life.

How to read Product Descriptions:

BACKlight2G	633	BL02ST	S1
BACKlight	Wave	ID#	Color Code
Second	length		S=Super Red
Generation	633nm		

HF2Chain	36	W3	-865
HiFlux Second	# of	Color	Color Temp
Generation	LED 36	Code	865=6500K
Chain		W3=White	

Color Definition	
S,S1	Super Red
A,A1	Amber Red
Y,Y1,Y2	Yellow
O,O1	Orange
T,T2	True Green
B,B1	Blue
W,W2,W3	White



Safety Information for all LED modules and accessories

WARNING: ONLY QUALIFIED PERSONNEL SHOULD PERFORM INSTALLATION. TO AVOID ELECTRICAL SHOCK OR COMPONENT DAMAGE, DISCONNECT POWER BEFORE ATTEMPTING INSTALLATION OF THE POWER SUPPLIES AND/OR MODULES.

Failure to install the power supplies and/or LED modules in accordance with the National Electric Code (NEC), all applicable Federal, State and local electric codes as well as the specific Underwriter's Laboratories (UL) safety standards for the installation, location and application may cause serious personal injury, death, property damage and/or product malfunction. These instructions are guidelines for installation of OSRAM LED modules and power supplies. Installation requirements may vary depending on the application. Licensed electricians should provide all installation services for connection of both primary and secondary (input/output) of the power supplies.

1. The LED module itself and all its components must not be subjected to mechanical stress.
2. Assembly must not damage or destroy conducting paths on the circuit board.
3. Installation of LED modules (with power supplies) should adhere to all applicable electrical and safety standards. Only qualified personnel should perform installations.
4. Correct electrical polarity needs to be observed. Wrong polarity may destroy the module.
5. Unbalanced voltage drop can cause hazardous overload and damage the LED module.
6. Ensure that the power supply is of adequate power to operate the total load.
7. Pay attention to standard ESD precautions when installing the module.
8. Damage by corrosion will not be honored as a materials defect claim. It is the user's responsibility to provide suitable protection against corrosive agents such as moisture, condensation and other harmful elements.
9. Modules may be hot to the touch. Use caution when handling.
10. Only install according to the heat sinking parameters outlined.
11. For applications involving exposure to humidity and dust, the module must be protected by a fixture or housing with a suitable protection glass. The module can be protected against condensation water by treatment with an appropriate circuit board conformal coating. The conformal coating should have the following features:
 - Optical transparency
 - UV resistance
 - Thermal expansion properties matching those of the module (15-30 x 10-6cm/cm/K)
 - Low permeability of steam for all climate conditions
 - Resistance against corrosive environments

Note: The "AFL" grade conformal coating from Electrolube, Inc. (www.electrolube.com) has met the conditions for LINEARlight Colormix in our tests.

*For product specific safety information please see the appropriate Product Information Bulletin

The LED Module incorporates no protection against short circuits, overload or overheating. Therefore it is absolutely necessary to operate the modules with an electronically stabilized power supply offering protection against the above mentioned safety risks.

OSRAM OPTOTRONIC power supplies are specifically designed with protection features for safe operation.

When using power supplies other than OPTOTRONIC the following basic safety features are required in addition to any other application specific concerns and local safety codes:

- Short circuit protection
- Overload protection
- Overheat protection
- Correct output voltage, including consideration for ripple and spikes.

SPOT/FLOOD PRODUCTS

HF²Eye

Task lighting, Accent lighting, Outdoor and landscape lighting, Shelf lighting, Display case lighting, Vehicle cabin lighting, Solar powered installations

Product Number	Ordering Description	Pkg Qty	Case Qty	Color	Wavelength / (CCT °K)	OPTOTRONIC Power Supply	Current (Amps)	Load Wattage	Beam Angle (Degrees)	Luminous Intensity
70199	HF2Eye/W3-833	6	264	White	3300K	Constant Current	.35	1.2	15	230
70200	HF2Eye/W3-854	6	264	White	5400K	Constant Current	.35	1.2	15	310



DRAGONPUck

Task lighting, Accent lighting, Outdoor and landscape lighting, Shelf lighting, Refrigerator and freezer display case lighting, Light box, Backlit graphics, Edge lighting, Vehicle cabin lighting, Solar powered installations

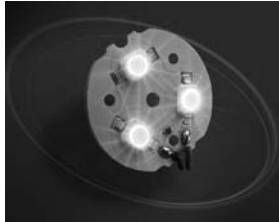
Product Number	Ordering Description	Pkg Qty	Case Qty	Color	Wavelength / (CCT °K)	LEDs/ Module	OPTOTRONIC Power Supply	Load Current (Amps)	Load Wattage	Beam Angle (Degrees)	Luminous Intensity (cd)
70107	DRAGONPUCK/OS/DP3/W2-854	1	16	White	5400	3	Constant Current	.35	3.6	20	285
70108	DRAGONPUCK/OS/DP3/W2-865	1	16	White	6500	3	Constant Current	.35	3.6	20	285
70120	DRAGONPUCK/OS/DP3/W2-847	1	16	White	4700	3	Constant Current	.35	3.6	20	285
70121	DRAGONPUCK/OS/DP3/A1	1	16	Red	617	3	Constant Current	.35	2.4	16	215
70122	DRAGONPUCK/OS/DP3/B1	1	16	Blue	470	3	Constant Current	.35	3.6	16	100
70123	DRAGONPUCK/OS/DP3/V1	1	16	Verde	505	3	Constant Current	.35	3.6	16	285
70124	DRAGONPUCK/OS/DP3/Y1	1	16	Yellow	587	3	Constant Current	.35	2.4	16	215
70142	DRAGONPUCK/OS/DP3/W2-733	1	16	White	3300	3	Constant Current	.35	3.6	20	230
70167	DRAGONPUCK/OS/DP3/W3-733	1	16	White	3300	3	Constant Current	.35	3.6	16	600
70168	DRAGONPUCK/OS/W3-847	1	16	White	4700	3	Constant Current	.35	3.6	16	900
70169	DRAGONPUCK/OS/W3-854	1	16	White	5400	3	Constant Current	.35	3.6	16	900
70170	DRAGONPUCK/OS/W3-865	1	16	White	6500	3	Constant Current	.35	3.6	16	900



HFDisk

Task lighting, Accent lighting, Outdoor and landscape lighting, Shelf lighting, Display case lighting, Vehicle cabin lighting, Solar powered installations

Product Number	Ordering Description	Pkg Qty	Case Qty	Color	Wavelength / (CCT °K)	LEDs/ Module	OPTOTRONIC Power Supply	Load Current (Amps)	Load Wattage	Viewing Angle (Degrees)	Lumens
70203	HFDisk/3/W2-733	10	100	White	3300K	3	Constant Current	.35	3.6	120	60
70204	HFDisk/3/W2-847	10	100	White	4700K	3	Constant Current	.35	3.6	120	75



HF²X

Task lighting, Accent lighting, Outdoor and landscape lighting, Shelf lighting, Display case lighting, Vehicle cabin lighting, Solar powered installations

Product Number	Ordering Description	Pkg Qty	Case Qty	Color	Wavelength / (CCT °K)	OPTOTRONIC Power Supply	Current (Amps)	Load Wattage	Radiance Angle (Degrees)	Luminous Intensity
70184	HF2X/120/W3-854	6	120	White	5400K	Constant Current	.35	1.2	120	15
70191	HF2X/60/W3-854	6	120	White	5400K	Constant Current	.35	1.2	60	33
70201	HF2X/12/W3-854	6	120	White	5400K	Constant Current	.35	1.2	12	675
70202	HF2X/30/W3-854	6	120	White	5400K	Constant Current	.35	1.2	30	110
70164	HF2X/120/W3-733	6	120	White	3300K	Constant Current	.35	1.2	120	10
70192	HF2X/12/W3-733	6	120	White	3300K	Constant Current	.35	1.2	12	45
70193	HF2X/30/W3-733	6	120	White	3300K	Constant Current	.35	1.2	30	75
70190	HF2X/120/W3-847	6	120	White	4700K	Constant Current	.35	1.2	120	*
70189	HF2X/60/W3-847	6	120	White	4700K	Constant Current	.35	1.2	60	*
70174	HF2X/12/W3-847	6	120	White	4700K	Constant Current	.35	1.2	12	*
70176	HF2X/30/W3-847	6	120	White	4700K	Constant Current	.35	1.2	30	*
70194	HF2X/60/W3-733	6	120	White	3300K	Constant Current	.35	1.2	60	22



HF²Flood

Down lighting, Accent lighting, Cove lighting, Outdoor and landscape lighting, Vehicle cabin lighting, Solar powered installations

Product Number	Ordering Description	Pkg Qty	Case Qty	Color	Wavelength / (CCT °K)	OPTOTRONIC Power Supply	Current (Amps)	Load Wattage	Radiance Angle (Degrees)	Luminous Intensity
70244	HF2Flood/25/C006A/W3-733	1	20	White	3300K	24 Vdc	.50	12	25	700
70243	HF2Flood/25/C006A/W3-847	1	20	White	4700K	24 Vdc	.50	12	25	700
70242	HF2Flood/25/C006A/W3-854	1	20	White	5400K	24 Vdc	.50	12	25	700
70241	HF2Flood/25/C006A/W3-865	1	20	White	6500K	24 Vdc	.50	12	25	600
70255	HF2Flood/38/C006A/W3-733	1	20	White	3300K	24 Vdc	.50	12	38	***
70256	HF2Flood/38/C006A/W3-847	1	20	White	4700K	24 Vdc	.50	12	38	***
70257	HF2Flood/38/C006A/W3-854	1	20	White	5400K	24 Vdc	.50	12	38	***
70258	HF2Flood/38/C006A/W3-865	1	20	White	6500K	24 Vdc	.50	12	38	***



LINEAR PRODUCTS

HF²Stick

Shelf lighting, Under cabinet lighting, Refrigerator and freezer case lighting, Cove lighting, Display lighting, Street lighting

Product Number	Ordering Description	Pkg Qty	Case Qty	Color	Wavelength / (CCT °K)	LEDs/ Module	OPTOTRONIC Power Supply	Load Current (Amps)	Load Wattage	Viewing Angle (Degrees)	Luminous Flux (Lumens)	Lumens /foot
70232	HF2Stick/6/W3-854-11.8 IN	1	6	White	5400K	6	24 Vdc	.50	12	120	375	383
70215	HF2Stick/6/W3-865-11.8 IN	6	6	White	6500K	6	24 Vdc	.50	12	120	375	383



HF²Linear

Shelf lighting, Under cabinet lighting, Refrigerator and freezer case lighting, Cove lighting, Display lighting, Street lighting

Product Number	Ordering Description	Pkg Qty	Case Qty	Color	Wavelength / (CCT °K)	LEDs/ Module	OPTOTRONIC Power Supply	Load Current (Amps)	Load Wattage	Viewing Angle (Degrees)	Luminous Flux (Lumens)	Lumens /foot
70250	HF2Linear/6/L30/W3-865-12.1 IN	6	6	White	6500K	6	24 Vdc	.50	12	30	270	268
70214	HF2Linear/6/L30/W3-854-12.1 IN	6	6	White	5400K	6	24 Vdc	.50	12	30	270	268
70178	HF2Linear/6/L30/W3-733-12.1 IN	1	6	White	3300K	6	24 Vdc	.50	12	30	270	268
70109	HF2Linear/6/L30/W3-847-12.1 IN	1	6	White	4700K	6	24 Vdc	.50	12	30	270	268



HF²Stick XB

Shelf lighting, Under cabinet lighting, Refrigerator and freezer case lighting, Cove lighting, Display lighting, Street lighting

Product Number	Ordering Description	Pkg Qty	Case Qty	Color	Wavelength / (CCT °K)	LEDs/ Module	OPTOTRONIC Power Supply	Load Current (Amps)	Load Wattage	Viewing Angle (Degrees)	Luminous Flux (Lumens)	Lumens /foot
70212	HF2StickXB/4/W3-727-11.5 IN	10	50	White	2700K	4	24 Vdc	0.23	5.6	100	130	135
70225	HF2StickXB/4/W3-841-11.5 IN	10	50	White	4100K	4	24 Vdc	0.23	5.6	100	150	156
70226	HF2StickXB/4/W3-865-11.5 IN	10	50	White	6500K	4	24 Vdc	0.21	5.1	100	240	250



DRAGONstick

Shelf Lighting, Under cabinet lighting, Refrigerator and freezer lighting, Display case lighting

Product Number	Ordering Description	Pkg Qty	Case Qty	Color	Wavelength / (CCT °K)	LEDs/ Module	OPTOTRONIC Power Supply	Load Current (Amps)	Load Wattage	Viewing Angle (Degrees)	Luminous Flux (Lumens)	Lumens /foot
70221	DRAGONstick/6/W3-847 11.5 IN	1	10	White	4700K	6	24 Vdc	0.35	8.5	120	200	208
70128	DRAGONstick/OS/DS12/W2-847	1	10	White	4700K	12	24 Vdc	0.7	17	120	300	313
70158	DRAGONstick/OS/DS6/W2-733	1	10	White	3300K	6	24 Vdc	0.35	8.5	120	120	125
70180	DRAGONstick/OS/DS12/W2-733	1	10	White	3300K	12	24 Vdc	0.7	17	120	240	250



LINEARlight Flex Top Colormix

Edge lighting, Accent lighting, Cove lighting, Color mixing, Controlled color sequencing, Custom color applications

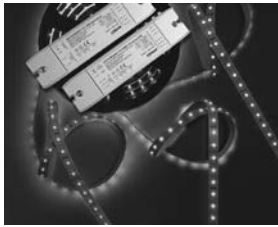
Product Number	Ordering Description	Pkg Qty	Case Qty	Wavelength / (CCT °K)	LEDs/ Module	OPTOTRONIC Power Supply	Load Current (Amps)	Load Wattage	Viewing Angle (Degrees)	Luminous Flux (Lumens)	Lumens /foot
70127	LINEARFLEX TOP/OS/LM10L/B7RGB	1	8								
	Red Channel			617nm	200	24 Vdc	0.5	12.1	120	213	16.3
	Green Channel			525nm	200	24 Vdc	1	24	120	336	25.6
	Blue Channel			467nm	200	24 Vdc	0.8	19.2	120	54	4.1



LINEARlight Flex Top Colormix

Edge lighting, Accent lighting, Cove lighting, Color mixing, Controlled color sequencing, Custom color applications

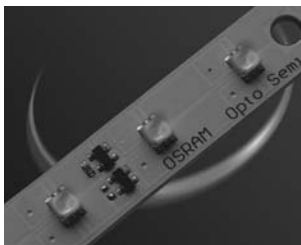
Product Number	Ordering Description	Pkg Qty	Case Qty	Wavelength /(CCT °K)	LEDs/ Module	OPTOTRONIC Power Supply	Load Current (Amps)	Load Wattage	Viewing Angle (Degrees)	Luminous Flux (Lumens)	Lumens /foot
70229	LNRFXTPLM10LB8RGB213.1FT	1	8								
	Red Channel			625nm	200	24 Vdc	0.5	12.1	120	385	29.4
	Green Channel			525nm	200	24 Vdc	1	24	120	770	58.8
	Blue Channel			467nm	200	24 Vdc	0.6	14.4	120	130	9.9



LINEARlight Colormix

Edge lighting, Accent lighting, Cove lighting, Color mixing, Controlled color sequencing, Custom color applications

Product Number	Ordering Description	Pkg Qty	Case Qty	Wavelength /(CCT °K)	LEDs/ Module	OPTOTRONIC Power Supply	Load Current (Amps)	Load Wattage	Viewing Angle (Degrees)	Luminous Flux (Lumens)	Lumens /foot
70080	LNRLRMX/LM01M/RGB 1.48 FT	1	10								
	All Colors			cool white	30	24 Vdc	0.33	8	120	87	58
	Red Channel			617nm	30	24 Vdc	0.075	1.8	120	32	21
	Green Channel			525nm	30	24 Vdc	0.15	3.6	120	51	34
	Blue Channel			470nm	30	24 Vdc	0.12	2.9	120	8	5



LINEARlight MULTI FLEX

Cove lighting, Edge lighting, Border marking, Commercial signs, Emergency and rescue signs, Path and contour marking, Backlighting complex contours, Refrigeration cases, Display shelves, Recessed lighting

Product Number	Ordering Description	Pkg Qty	Case Qty	Color	Wavelength /(CCT °K)	LEDs/ Module	OPTOTRONIC Power Supply	Load Current (Amps)	Load Wattage	Viewing Angle (Degrees)	Luminous Flux (Lumens)	Lumens /foot
70181	LLMULTIFLX/THN/W3-880-3.2 FT	1	10	White	8800K	96	24 Vdc	0.25	6	45	88	28
70205	LLMULTIFLX/THN/W3-827-3.2 FT	1	8	White	2700K	96	24 Vdc	0.25	6	45	83	26
70182	LLMULTIFLX/THN/W3-865-3.2 FT	1	8	White	6500K	96	24 Vdc	0.25	6	45	180	56



LINEARlight

Escape route marker, Border marker, Walkways, Outlines

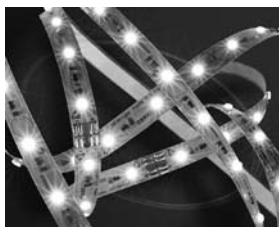
Product Number	Ordering Description	Pkg Qty	Case Qty	Color	Wavelength / (CCT °K)	LEDs/ Module	OPTOTRONIC Power Supply	Load Current (Amps)	Load Wattage	Viewing Angle (Degrees)	Luminous Flux (Lumens)	Lumens /foot
70044	LINEAR/633/OS/LM01A/S1	1	10	Super Red	633nm	32	10 Vdc	0.4	4.2	120	54	37
70007	LINEAR/615/OS/LM01A/A1	1	10	Amber Red	617nm	32	10 Vdc	0.4	4.2	120	86	59
70083	LINEAR/610/OS/LM01A/O1	1	10	Orange	606nm	32	10 Vdc	0.4	4.2	120	98	67
70006	LINEAR/587/OS/LM01A/Y2	1	10	Yellow	587nm	32	10 Vdc	0.4	4.2	120	69	47
70008	LINEAR/525/OS/LM01A/T2	1	10	True Green	525nm	32	10 Vdc	0.4	4.2	120	57	39
70009	LINEAR/470/OS/LM01A/B1	1	10	Blue	469nm	32	10 Vdc	0.4	4.2	120	10	7
70111	LINEAR/LM01A/W2-847 1.47FT	1	10	White	4700K	32	10 Vdc	0.4	4.2	120	57	39
70112	LINEAR/LM01A/W2-854 1.47FT	1	10	White	5400K	32	10 Vdc	0.4	4.2	120	57	39
70113	LINEAR/LM01A/W2-865 1.47FT	1	10	White	6500K	32	10 Vdc	0.4	4.2	120	57	39
70265	LINEAR/LM01/W3-733 1.47FT	1	10	White	3300K	32	10 Vdc	0.4	4.2	120	68	46



LINEARlight POWER FLEX

Cove lighting, Edge lighting, Border marking, Commercial signs, Emergency and rescue signs, Path and contour marking, Backlighting complex contours, Refrigeration cases, Display shelves, Recessed lighting

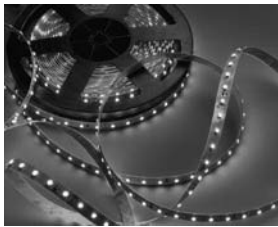
Product Number	Ordering Description	Pkg Qty	Case Qty	Color	Wavelength / (CCT °K)	LEDs/ Module	OPTOTRONIC Power Supply	Load Current (Amps)	Load Wattage	Viewing Angle (Degrees)	Luminous Flux (Lumens)	Lumens /foot
70137	LNRPWFLX/LM10P/W3-847 9FT	1	8	White	4700K	120	24 Vdc	3	72	120	1400	152
70098	LNRPWFLX/LM10P/W3-854 9FT	1	8	White	5400K	120	24 Vdc	3	72	120	1400	152
70138	LNRPWFLX/LM10P/W3-865 9FT	1	8	White	6500K	120	24 Vdc	3	72	120	1400	152
70267	LNRPWFLX/LM10P/W3-733 9FT	1	1	White	3300K	120	24 Vdc	3	72	120	1300	144
70268	LNRPWFLX/LM10P/W3-727 9FT	1	1	White	2700K	120	24 Vdc	3	72	120	1300	144



LINEARlight FLEX TOPLED

Cove lighting, Edge lighting, Border marking, Commercial signs, Emergency and rescue signs, Path and contour marking, Backlighting complex contours, Refrigeration cases, Display shelves, Recessed lighting

Product Number	Ordering Description	Pkg Qty	Case Qty	Color	Wavelength / (CCT °K)	LEDs/ Module	OPTOTRONIC Power Supply	Load Current (Amps)	Load Wattage	Viewing Angle (Degrees)	Luminous Flux (Lumens)	Lumens /foot
70061	LNRFLXTP/587/LM10A/Y1 27.5FT	1	1	Yellow	587nm	600	24 Vdc	3	72	120	1290	47
70135	LNRFLXTP/617/LM10A/A1 27.5FT	1	1	Amber Red	617nm	600	24 Vdc	3	72	120	1620	59
70063	LNRFLXTP/525/LM10A/T1 27.5FT	1	1	True Green	525nm	600	24 Vdc	3	72	120	675	25
70064	LNRFLXTP/470/LM10A/B 27.5FT	1	1	Blue	469nm	600	24 Vdc	3	72	120	170	6
70105	LNRFLXTP/LM10A/W2-847 27.5FT	1	1	White	4700K	600	24 Vdc	3.6	86.4	120	1290	47
70089	LNRFLXTP/LM10A/W2-854 27.5FT	1	1	White	5400K	600	24 Vdc	3.6	86.4	120	1290	47
70104	LNRFLXTP/LM10A/W2-865 27.5FT	1	1	White	6500K	600	24 Vdc	3.6	86.4	120	1290	47
70266	LNRFLXTP/LM10A/W3-727 27.5FT	1	1	White	2700K	600	24 Vdc	3.6	86.4	120	1440	52



LINEARlight FLEX SIDELED

Cove lighting, Edge lighting, Border marking, Commercial signs, Emergency and rescue signs, Path and contour marking, Backlighting complex contours, Refrigeration cases, Display shelves, Recessed lighting

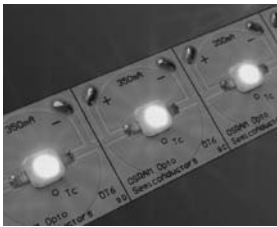
Product Number	Ordering Description	Pkg Qty	Case Qty	Color	Wavelength / (CCT °K)	LEDs/ Module	OPTOTRONIC Power Supply	Load Current (Amps)	Load Wattage	Viewing Angle (Degrees)	Luminous Flux (Lumens)	Lumens /foot
70066	LNRFLXSD/615/LM11A/A 13.8FT	1	1	Red	615nm	300	10 Vdc	1.5	15.75	120	117	8.5
70067	LNRFLXSD/587/LM11A/Y 13.8FT	1	1	Yellow	587nm	300	10 Vdc	2.25	23.63	120	405	29
70068	LNRFLXSD/525/LM11A/T 13.8FT	1	1	True Green	528nm	300	10 Vdc	3	31.5	120	147	11
70069	LNRFLXSD/470/LM11A/B 13.8FT	1	1	Blue	470nm	300	10 Vdc	3	31.5	120	37	3
70070	LNRFLXSD/LM11A/W 13.8FT	1	1	White	x=0.32, y=0.31	300	10 Vdc	3	31.5	120	405	29



DRAGONtape

Task lighting, Underer cabinet lighting, Accent lighting, Cove lighting, Outdoor and landscape lighting, Refrigerator and freezer lighting, Light box, Backlit graphics, Edge lighting, Vehicle cabin lighting, Solar powered installations

Product Number	Ordering Description	Pkg Qty	Case Qty	Color	Wavelength / (CCT °K)	LEDs/ Module	OPTOTRONIC Power Supply	Load Current (Amps)	Load Wattage	Viewing Angle (Degrees)	Luminous Flux (Lumens)	Lumens /foot
70106	DRAGONtape/OS/DT6/W2-847	1	25	White	4700K	6	Constant Current	.35	7.2	120	150	300
70099	DRAGONtape/OS/DT6/W2-854	1	25	White	5400K	6	Constant Current	.35	7.2	120	150	300
70100	DRAGONtape/OS/DT6/W2-865	1	25	White	6500K	6	Constant Current	.35	7.2	120	150	300
70151	DRAGONtape/OS/DT6/W2-733	1	25	White	3300K	6	Constant Current	.35	7.2	120	120	240
70101	DRAGONtape/OS/DT6/A1	1	25	Red	617nm	6	Constant Current	.35	4.8	120	108	216
70117	DRAGONtape/OS/DT6/Y1	1	25	Yellow	587nm	6	Constant Current	.35	4.8	120	108	216
70118	DRAGONtape/OS/DT6/V1	1	25	Verde	505nm	6	Constant Current	.35	7.2	120	150	300
70119	DRAGONtape/OS/DT6/B1	1	25	Blue	465nm	6	Constant Current	.35	7.2	120	48	96



CHAIN PRODUCTS

HF²Chain

Backlighting advertising panels, Signs, Channel letters and displays, General lighting

Product Number	Ordering Description	Pkg Qty	Case Qty	Color	Wavelength / (CCT °K)	LEDs/ Module	OPTOTRONIC Power Supply	Load Current (Amps)	Load Wattage	Viewing Angle (Degrees)	Luminous Flux (Lumens)	Lumens /foot
70165	HF2Chain/36/W3-865	1	10	White	6500K	36	24 Vdc	2.2	52	120	1320	110



BACKlight 2G BL02

Backlighting advertising panels, Signs, Channel letters and displays, General lighting

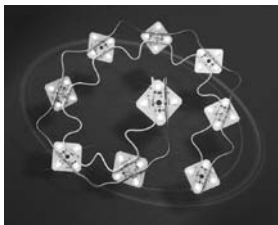
Product Number	Ordering Description	Pkg Qty	Case Qty	Color	Wavelength / (CCT °K)	LEDs/ Module	OPTOTRONIC Power Supply	Load Current (Amps)	Load Wattage	Viewing Angle (Degrees)	Luminous Flux (Lumens)	Lumens /foot
70235	B2G/633/BL02ST/S1 31.5FT	1	5	Super Red	633nm	240	10 Vdc	3.6	38	120	490	16
70175	B2G/617/BL02ST/A2 31.5FT	1	5	Amber Red	617nm	240	10 Vdc	3.6	38	120	1180	37.5
70236	B2G/606/BL02ST/O1 31.5FT	1	5	Orange	606nm	240	10 Vdc	3.6	38	120	980	31
70237	B2G/587/BL02ST/Y2 31.5FT	1	5	Yellow	587nm	240	10 Vdc	3.6	38	120	980	31
70238	B2G/525/BL02ST/T2 31.5FT	1	5	Green	525nm	240	10 Vdc	3	32	120	430	14
70239	B2G/470/BL02ST/B1 31.5FT	1	5	Blue	470nm	240	10 Vdc	3	32	120	100	3
70144	B2G/BL02ST/W2-865 31.5FT	1	5	White	6500K	240	10 Vdc	3.6	38	120	520	17
70271	B2G/BL02S/W3-854 31.5FT	1	5	White	5400K	240	10 Vdc	4.2	44	120	880	28
70272	B2G/BL02S/W3-865 31.5FT	1	5	White	6500K	240	10 Vdc	4.2	44	120	880	28



BACKlight 2G BL04

Backlighting advertising panels, Signs, Channel letters and displays, General lighting

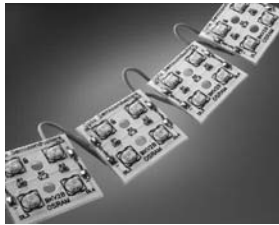
Product Number	Ordering Description	Pkg Qty	Case Qty	Color	Wavelength / (CCT °K)	LEDs/ Module	OPTOTRONIC Power Supply	Load Current (Amps)	Load Wattage	Viewing Angle (Degrees)	Luminous Flux (Lumens)	Lumens /foot
70173**	B2G/BL04ST/W2-865 15.75FT	1	5 reels	White	6500K	240	10 Vdc	3.6	38	120	520	33
70172**	B2G/525/BL04ST/T2 15.75FT	1	5 reels	Green	525nm	240	10 Vdc	3	32	120	430	27
70171**	B2G/470/BL04ST/B1	1	5 reels	Blue	470nm	240	10 Vdc	3	32	120	100	6
70274	B2G/BL04S/W3-865	1	5 reels	White	6500K	240	10 Vdc	4.2	44	120	880	55.9



BACKlight

Backlighting advertising panels, Signs, Channel letters and displays, General lighting

Product Number	Ordering Description	Pkg Qty	Case Qty	Color	Wavelength / (CCT °K)	LEDs/ Module	OPTOTRONIC Power Supply	Load Current (Amps)	Load Wattage	Viewing Angle (Degrees)	Luminous Flux (Lumens)	Lumens /foot
70081	BACKLITE/633/LM03A/S 1.8FT	1	20	Super Red	633nm	32	10.5 Vdc	0.4	4.2	120	54	30
70011	BACKLITE/615/LM03A/A 1.8FT	1	20	Amber Red	617nm	32	10.5 Vdc	0.4	4.2	120	54	30
70071	BACKLITE/610/LM03A/O 1.8FT	1	20	Orange	606nm	32	10.5 Vdc	0.4	4.2	120	86	48
70012	BACKLITE/587/LM03A/Y 1.8FT	1	20	Yellow	587nm	32	10.5 Vdc	0.4	4.2	120	69	38
70013	BACKLITE/525/LM03A/T 1.8FT	1	20	True Green	525nm	32	10.5 Vdc	0.4	4.2	120	57	31
70014	BACKLITE/470/LM03A/B 1.8FT	1	20	Blue	470nm	32	10.5 Vdc	0.4	4.2	120	9	5
70102	BACKLITE/LM03A/W2-854 1.8FT	1	20	White	5400K	32	10.5 Vdc	0.5	5.3	120	69	38
70103	BACKLITE/LM03A/W2-865 1.8FT	1	20	White	6500K	32	10.5 Vdc	0.5	5.3	120	69	38

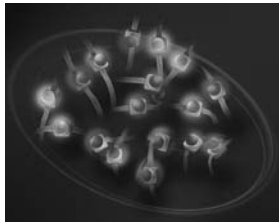


LINEARlight Colorpod

Edge lighting, Accent lighting, Cove lighting, Color mixing, Controlled color sequencing, Custom color applications

Product Number	Ordering Description	Pkg Qty	Case Qty	Color	Lens	LEDs/ Module	OPTOTRONIC Power Supply	Load Wattage
70210	LINEARlight Colorpod/Clear-36 FT	1	12	RGB	Clear	50	7.5 Vdc	25
70211	LINEARlight Colorpod/Frosted- 36 FT	1	12	RGB	Frosted	50	7.5 Vdc	25

* To be used only with OTCP power supplies and controls.

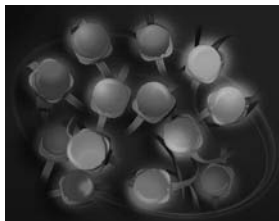


LINEARlight Colorpod XB

Edge lighting, Accent lighting, Cove lighting, Color mixing, Controlled color sequencing, Custom color applications

Product Number	Ordering Description	Pkg Qty	Case Qty	Color	Lens	LEDs/ Module	OPTOTRONIC Power Supply	Load Wattage
70208	LINEARlight Colorpod XB/Frosted- 67 FT	1	6	RGB	Frosted	50	12 Vdc	50
70209	LINEARlight Colorpod XB/Clear- 67 FT	1	6	RGB	Clear	50	12 Vdc	50

*To be used only with OTCP power supplies and controls.



ACCESSORIES FOR SPOT/FLOOD PRODUCTS

Spot/Flood Thermal Management Solutions

Thermal management solutions for DRAGONpuck® and HFDisk modules

Product Number	Ordering Description	Pkg Qty	Case Qty	Diameter (in.)	Height (in.)
70136	Heatsink/DRAGONpuck-50	1	50	3.5	0.79



ACCESSORIES FOR LINEAR PRODUCTS

HF²Stick - Linear Connector System

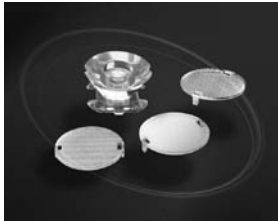
Compatible with HF2Stick and HF2Linear modules

Product Number	Ordering Description	Pkg Qty	Case Qty	Length (in.)	Type
70251	HF2Stick-Linear/Conn/2pin-input	10	500	20	Power Feed
70252	HF2Stick-Linear/Conn-4in	10	500	4	Board to Board
70253	HF2Stick-Linear/Conn-2in	10	500	2	Board to Board

HF²Stick Optical Solutions

Compatible with HF2 Stick and DRAGONstick modules

Product Number	Ordering Description	Pkg Qty	Case Qty	Beam Angle (Degrees)
70159	LED/Optic/Spot/Lens-2	12	12	4
70160	LED/Optic/Wide/Sub Lens-15	12	144	30
70161	LED/Optic/Oval/Sub Lens- 4x27	12	144	±4 x ±27
70162	LED/Optic/Diffuser/Sub Lens-5	12	144	10



Thermal Management Solutions

Compatible with HF2Stick, HF2Stick XB, HF2Chain and DRAGONstick modules

Product Number	Ordering Description	Pkg Qty	Case Qty	Length in. (mm)	Width in. (mm)	Height in. (mm)
70186	Heatsink/Linear/1 ft	1	25	12 (304.8)	2.5 (63.5)	0.72 (18.3)



HF²Stick XB Connector

Accessory to HF²Stick XB modules

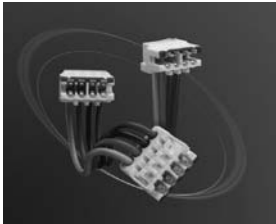
Product Number	Ordering Description	Pkg Qty	Case Qty	Length in (mm)	Width in (mm)	Height in (mm)	Wire Length in (mm)
70197	HF ² StickXB Connector/input conn	10	500	.57 (14.5)	.28 (7)	.34 (8.7)	12 (305)
70196	HF ² StickXB Connector/conn	10	500	.57 (14.5)	.28 (7)	.34 (8.7)	1.77 (45)
70195	HF ² StickXB Connector/conn-12	10	500	.57 (14.5)	.28 (7)	.34 (8.7)	11.9 (303)



Colormix Connector System

Accessory to Colormix Rigid module

Product Number	Ordering Description	Pkg Qty	Case Qty	Length in (mm)	Width in (mm)	Height in (mm)	Wire Length in (mm)
70114	CLRMXCONN/LM4PIN/Feeder	10	500	0.29(7.3)	0.49(12.5)	0.43(11)	19.7 (500)
70110	CLRMXCONN/LMConn45	10	1000	2.35(59.6)	0.49(12.5)	0.43(11)	1.77 (45)



LINEARlight Rigid Connector Systems

Accessory to LINEARlight module

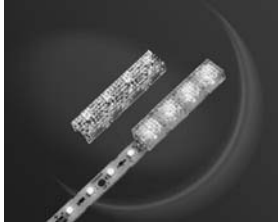
Product Number	Ordering Description	Pkg Qty	Case Qty	Length in (mm)	Width in (mm)	Height in (mm)	Wire Length in (mm)
70115	LINEARCONN/LM2-PIN/Feeder	10	500	0.54(13.6)	0.24(6.1)	0.19(5)	19.7 (550)
70116	LINEARBBCONN/LMCONN	10	500	0.44(11.2)	0.24(6.1)	0.18(4.65)	
70133	LINEARLIGHTCONN/LMCONN-50	10	500	0.54(13.6)	0.24(6.1)	0.19(5)	19.7 (500)



LINEARlight Optics

Accessory to LINEARlight modules

Product Number	Ordering Description	Pkg Qty	Case Qty	Length in (mm)	Width in (mm)	Viewing Angle (Degrees)
70072	LINEARLT Optics OS-OP4X1-20 + OS-LM01A	1	80	2.20(56)	0.47(12)	20/25



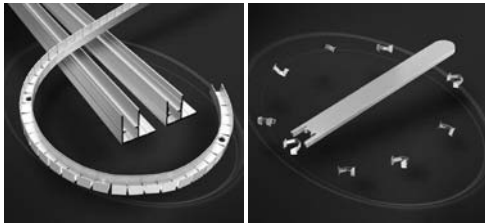
LINEARlight MULTI FLEX Mounting Accessories

Accessory for LINEARlight MULTI FLEX modules

Product Number	Ordering Description	Pkg Qty	Case Qty	Length (mm)	External Width (mm)	Height (mm)	Internal Width (mm)	Base Width (mm)
70220	LLMULTIFLX/INSTALL-SCREWS	20	100					
70207	LLMULTIFLX/INSTALL-TOOL	1	10					
70206	LLMULTIFLX/STR-CHANNEL - 3.2 FT**	5	5	1000	10.5	18.5	8	20
70187	LLMULTIFLX/THN/FLX-CHANNEL - 3.2 FT*	20	20	1000	9	9	7	7
70188	LLMULTIFLX/THN/STR-CHANNEL - 3.2 FT**	5	5	1000	10	16.5	8	20

* Flex channel only used with 70181

**70206 and 70188 can be used with 70205 and 70182



LINEARlight FLEX Top Colormix Connector System

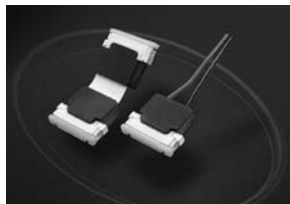
Product Number	Ordering Description	Pkg Qty	Case Qty	Length in (mm)	Width in (mm)	Height in (mm)	Wire Length in (mm)
70183	LM4PINFLEXCONNBPS	10	1000	0.48 (12.25)	0.65 (16.5)	0.2 (5)	19.69 (500)
70263	LM2CONNSFLEXCONNB	10	2000	1.4 (34.5)	0.65 (16.5)	0.2 (5)	0.39 (10)



LINEARlight FLEX Connectors

Compatible with LINEARlight POWERFLEX, LINEARlight Flex TOPLED, and LINEARlight FLEXSIDE LED

Product Number	Ordering Description	Pkg Qty	Case Qty	Length in (mm)	Width in (mm)	Height in (mm)	Wire Length in (mm)
70269	LM2PINFLEXCONN	10	1000	0.48 (12.25)	0.65 (16.5)	0.2 (5)	19.69 (500)
70263	LM2CONN5FLEXCONNBB	10	2000	1.4 (34.5)	0.65 (16.5)	0.2 (5)	0.39 (10)



ACCESSORIES FOR CHAIN PRODUCTS

BACKlight Connector

Compatible with BACKlight, BACKlight B2G BL02, and BACKlight B2G BL04

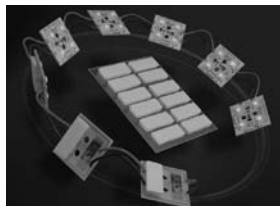
Product Number	Ordering Description	Pkg Qty	Case Qty	Height in (mm)	Width in (mm)	Depth in (mm)	Strip Length in (mm)
70126	BACKLITECONN/LM03A/CONN	100	1000	0.27 (6.86)	0.39 (9.9)	0.39 (9.9)	0.22 (5.6)



BACKlight Tape

Accessory to BACKlight, BACKlight 2G and LINEARlight Rigid modules

Product Number	Ordering Description	Pkg Qty	Case Qty	Length in (mm)	Width in (mm)	Depth in (mm)
70125	BACKlite Tape/OS/LM03A	40	400	1(25.4)	0.4 (10.16)	0.1 (2.54)



LINEARlight Colorpod Mounting Accessories

Accessories to LINEARlight Colorpod modules

Product Number	Ordering Description	Pkg Qty	Case Qty	Length in (mm)
70216	LINEARlight Colorpod/Track- 4ft (Mounting track - 4ft)	1	50	4 ft
70217	LINEARlight Colorpod/Clip (Mounting Clip)	50	1000	-

LINEARlight Colorpod XB Mounting Accessories

Accessories to LINEARlight Colorpod XB modules

Product Number	Ordering Description	Pkg Qty	Case Qty	Length in (mm)
70218	LINEARlight Colorpod XB/Track- 4ft (Mounting track - 4ft)	1	50	4 ft
70219	LINEARlight Colorpod XB/Clip (Mounting Clip)	50	1000	-