

Linear

LINI-S XL R207

Fixture Guide

KKDÖ



Indoor | Surface | Dynamic output up to 967lm/m (295lm/ft)

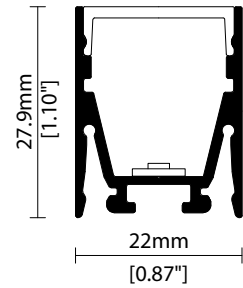


Key applications

- ✓ Architectural detail
- ✓ Cove lighting
- ✓ Direct lighting
- ✓ Interior
- ✓ Mirror back lighting
- ✓ Retail display
- ✓ Shelving display
- ✓ Special effect

Key features

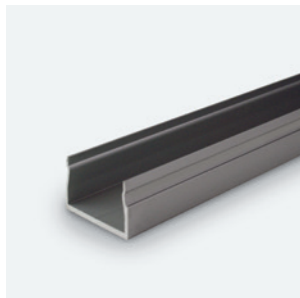
- ✓ Custom lengths
- ✓ Constant Voltage (CV)
- ✓ Diffusion: homogenous
- ✓ Direct view
- ✓ Extensive CCT range
- ✓ IP40 dry area
- ✓ LEDmix dynamic white



MOUNTING METHODS



KKCP-11 Concealed clip



KKCR-01-1000 Cable raceway (1000mm)
KKCR-01-2000 Cable raceway (2000mm)
KKCR-01-3000 Cable raceway (3000mm)



KKJT-02 Joining bar

Warm dim (Dynamic white)

Output Luminance %

min DIM1 Input Level max

— CH1 (Warmer)
— CH2 (Cooler)

LEDmix R207

CCT Selection 1 CCT Selection 2

LEDmix R209

CCT Selection 1 CCT Selection 2

LEDmix **warm dim** (Dynamic white) is a pre-programmed dimming curve setting enabling two different colour temperatures (CCTs) to blend harmoniously to achieve a warming lighting effect when dimmed.

KKDC LEDmix strips allow two separate CCT selections to be specified within the same PCB strip.

Use the table opposite to help determine which 2 CCT selections you require according to your preferred cool to warm dimming range.

**Note: The blended CCT is approx. 'cool-end' result at 100% brightness based on using the KKDC LED CCT specification.*

CCT Selection 1	CCT Selection 2	
	Blended CCT*	PCB CCT
1900K~	2000K 2100K 2200K 2300K 2500K 2600K 2700K 3000K 3500K	2100K PCB 2300K PCB 2500K PCB 2700K PCB 3000K PCB 3200K PCB 3500K PCB 4000K PCB 5000K PCB
2100K~	2200K 2300K 2400K 2600K 2700K 2800K 3000K 3600K	2300K PCB 2500K PCB 2700K PCB 3000K PCB 3200K PCB 3500K PCB 4000K PCB 5000K PCB
2300K~	2400K 2500K 2700K 2800K 2900K 3100K 3700K	2500K PCB 2700K PCB 3000K PCB 3200K PCB 3500K PCB 4000K PCB 5000K PCB
2500K~	2600K 2800K 2800K 3000K 3200K 3800K	2700K PCB 3000K PCB 3200K PCB 3500K PCB 4000K PCB 5000K PCB
2700K~	2900K 3000K 3100K 3400K 3900K	3000K PCB 3200K PCB 3500K PCB 4000K PCB 5000K PCB
3000K~	3100K 3300K 3500K 4000K	3200K PCB 3500K PCB 4000K PCB 5000K PCB
3200K~	3300K 3600K 4100K	3500K PCB 4000K PCB 5000K PCB
3500K~	3700K 4300K	4000K PCB 5000K PCB
4000K~	5100K	5000K PCB

Tuneable white

Channel Mix Ratio %

min DIM1 Input Level max

— CH1 (Warmer)
— CH2 (Cooler)

LEDmix R207

CCT Selection 1 CCT Selection 2

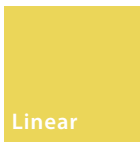
LEDmix R209

CCT Selection 1 CCT Selection 2

LEDmix **tunable white** enables two different LED colour temperatures (CCTs) to be specified within the same LEDmix strip.

Each CCT selection can then be independently controlled (via your dimming control system) to adjust the warm & cool light output (CCT selections) and thus tailor a blended light colour of your choosing.

CCT Selection 1	CCT Selection 2
1900K~	2100K 2300K 2500K 2700K 3000K 3200K 3500K 4000K 5000K
2100K~	2300K 2500K 2700K 3000K 3200K 3500K 4000K 5000K
2300K~	2500K 2700K 3000K 3200K 3500K 4000K 5000K
2500K~	2700K 3000K 3200K 3500K 4000K 5000K
2700K~	3000K 3200K 3500K 4000K 5000K
3000K~	3200K 3500K 4000K 5000K
3200K~	3500K 4000K 5000K
3500K~	4000K 5000K
4000K~	5000K



LINI-S XL R207

Specification sheet



Dimensions	H28/W22/L94-2011mm (H1.1/W0.87/L3.70-79.17in)
PCB Cut-point	83.3mm increment/2000mm max (3.28in increment/78.74in max)
LED Pitch	13.9mm-144LED/m (0.55in - 44LED/ft)
Chip	s-line k-line
Cover/Optics	Clear (50°)/Diffused (120°)
CCT	s-line: 1900K/2100K/2300K/2500K/2700K/3000K/3500K/4000K/5000K k-line: 1900K/2100K/2300K/2500K/2700K/3000K/3500K/4000K/5000K
LED binning	s-line: 2.5-step MacAdam ellipse k-line: 3-step MacAdam ellipse
CRI	≥92
Lifetime	50,000 hours @ 25°C (50,000 hours @ 77°F)
Operating temp	T _a = -25 to 50°C (T _c max = 75°C) T _a = -13 to 122°F (T _c max = 167°F)
IP Rating	IP40
Finish	Silver anodised
Mounting	Surface mounting via concealed clips
Power feed	Hardwire tails or male/female connectors
Control	0-10V/1-10V/DMX/DALI



LED Grading Key

Exclusive Grade

s s-line*	*KKDC tuned CCT range
2-step CCT range	

Base Grade

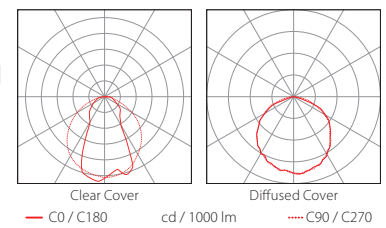
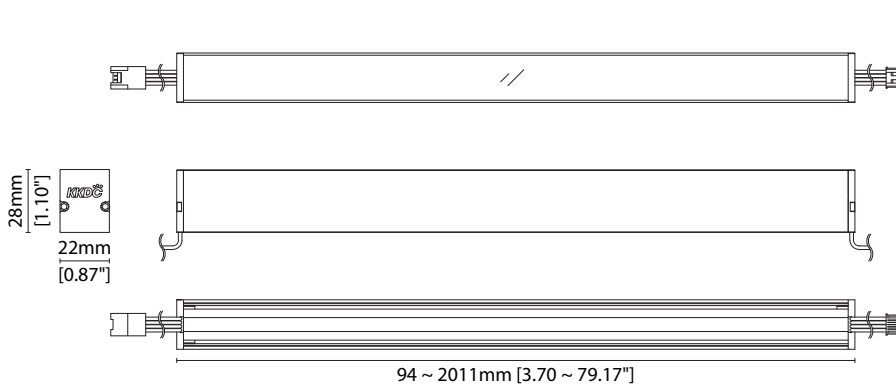
k k-line	3-step commercial range Energy Star CCTs
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Power consumption	Supply voltage	Supply current
16W/m (4.88W/ft)	24V DC	0.67A/m (0.20A/ft)

Performance Data (2100K+5000K)

	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
k-line	97	96	97	98	96	92	93	94	92	94	96	78	96	99

	Clear Cover		Diffused Cover		CRI	R9	Rf	Rg
s-line	967lm/m (295lm/ft)	60.4lm/W	661lm/m (202lm/ft)	41.3lm/W	96	93	-	-
k-line	912lm/m (278lm/ft)	57lm/W	624lm/m (190lm/ft)	39lm/W	95	92	-	-



Data derived from independent UKAS/IESNA LM-79-08 accredited testing of production samples.

LINE-S XL R207

Code Table



FIXTURE

Model	Finish	Cover ¹	Grade ²	LED	Colour (CCT)	Length Availability ³	IP	Cable Length	Power Feed ⁴	Input																																
LINE-S XL	SX	Silver Anodised	SA	Clear	B	s	R207	R207	1900K	19	m	94-2011mm 83.3mm increments	IP40	40	300mm/11.81"	0300	Single no sheath tail	S00X	DC 24V	g																						
																					Diffused	C	k	2100K	21																	
																										i	3.71-79.17in 3.28in increments	1000mm/39.37"	1000	Double no sheath tail	D00X											
																																(Specify length code OR total run length)	Single no sheath IP20 connector	S20X								
																																			3200K	23	Double no sheath IP20 connector	D20X				
																																							2500K	25		
																																									3500K	35
5000K	50																																									

¹ Refer to **Cover/Lens Options** on **Options** pages

² Refer to **LED Grading Key** on **Specification sheet** page

³ Refer to **Length Availability List** or enter total run length instead of length code

⁴ Refer to **Power Feed Options** on **Options** pages

⁵ LEDmix requires two colour temperature choices

Code Example:

SX	-	SA	-	C	-	s	-	R207	-	2150	-	m	511	-	40	-	0300	-	D00X	-	g
LINE-S XL		Silver Anodised		Diffused				R207		2100K+5000K		510.8mm		IP40		300mm/11.81"		Double no sheath tail		DC 24V	

ACCESSORIES

Mounting Accessories

KKCP-11	Concealed Clip
KKCR-01-1000	1000mm/39.37" Cable Raceway
KKCR-01-2000	2000mm/78.74" Cable Raceway
KKCR-01-3000	3000mm/118.11" Cable Raceway
KKJT-02	Joining Bar

Connection Accessories

KKCN-18	4 PIN LEDmix male & female 50mm/1.97" pair
KKCN-19	4 PIN LEDmix male & female 300mm/11.81" pair
KKCN-24	4 PIN LEDmix 300mm/11.81" extension lead

* Refer to **Power feed** on **Accessories** pages

PSU/Driver

0-10V/1-10V/DALI/DMX

* Refer to **Driver/PSU Options** page for details or provide requirement and KKDC to offer the suitable option

* Refer to **Mounting accessories** on **Accessories** pages

LED ENGINE VARIANTS (LED STRIP TYPE)

Colour	LED	Lumen/m	Lumen/ft	W/m	W/ft	Spec Doc	Length	Increment
Single CCT	R007	423	129	7	2.13	LINE-S XL R007	94-2011mm/3.71-79.17in	41.7mm/1.64in
	R014	772	235	14	4.27	LINE-S XL R014	94-2011mm/3.71-79.17in	41.7mm/1.64in
	R020	1230	375	20	6.10	LINE-S XL R020	94-2011mm/3.71-79.17in	41.7mm/1.64in
	A040	3080	939	40	12.19	LINE-S XL A040	88.0-1511mm/3.46-59.49in	38.46mm/1.51in
Warm Dim/Dynamic White	R207	423	129	16	4.88	LINE-S XL R207	94-2011mm/3.71-79.17in	41.7mm/1.64in
RGB	501	Red 85 Green 184 Blue 30 RGB 267	Red 26 Green 56 Blue 9 RGB 81	15.6	4.75	LINE-S XL RGB	94-2011mm/3.71-79.17in	41.7mm/1.64in
RGBW	R201	727	222	20	6.10	LINE-S XL RGBW	136-2011mm/5.35-79.17in	62.5mm/2.46in

* Performance data: s-line, clear cover, 2100K + 5000K

LINI-S XL R207

Length Availability List

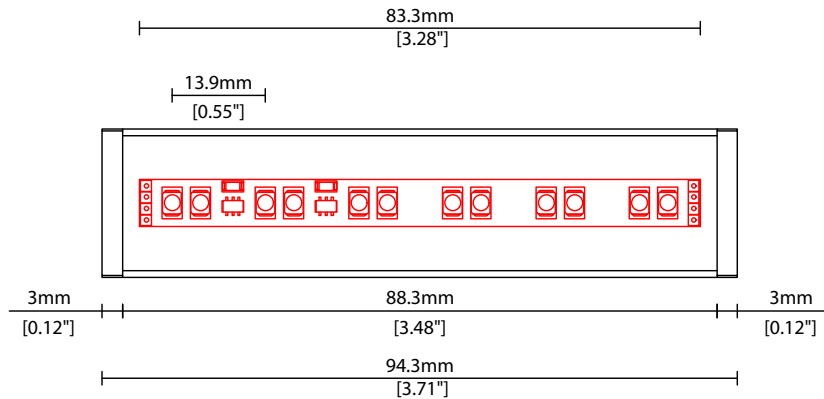


Length Code		Fixture Length ¹		LED Strip ²		End Cap Dimension ³		Wattage (W)	Output (lm)
Metric	Imperial(US)	Metric	Imperial(US)	Metric	Imperial(US)	Metric	Imperial(US)		3000K (Test Data)
m0094	i0004	94mm	3.71in	83mm	3.28in	6mm	0.24in	1.67	97
m0178	i0007	178mm	6.99in	167mm	6.56in	6mm	0.24in	3.33	193
m0261	i0010	261mm	10.28in	250mm	9.84in	6mm	0.24in	5.00	290
m0344	i0014	344mm	13.56in	333mm	13.12in	6mm	0.24in	6.67	387
m0428	i0017	428mm	16.84in	417mm	16.40in	6mm	0.24in	8.33	483
m0511	i0020	511mm	20.12in	500mm	19.69in	6mm	0.24in	10.00	580
m0594	i0023	594mm	23.40in	583mm	22.97in	6mm	0.24in	11.67	677
m0678	i0027	678mm	26.68in	667mm	26.25in	6mm	0.24in	13.33	773
m0761	i0030	761mm	29.96in	750mm	29.53in	6mm	0.24in	15.00	870
m0844	i0033	844mm	33.24in	833mm	32.81in	6mm	0.24in	16.67	967
m0928	i0037	928mm	36.52in	917mm	36.09in	6mm	0.24in	18.33	1063
m1011	i0040	1011mm	39.80in	1000mm	39.37in	6mm	0.24in	20.00	1160
m1094	i0043	1094mm	43.08in	1083mm	42.65in	6mm	0.24in	21.67	1257
m1178	i0046	1178mm	46.36in	1167mm	45.93in	6mm	0.24in	23.33	1353
m1261	i0050	1261mm	49.65in	1250mm	49.21in	6mm	0.24in	25.00	1450
m1344	i0053	1344mm	52.93in	1333mm	52.49in	6mm	0.24in	26.67	1547
m1428	i0056	1428mm	56.21in	1417mm	55.77in	6mm	0.24in	28.33	1643
m1511	i0059	1511mm	59.49in	1500mm	59.06in	6mm	0.24in	30.00	1740
m1594	i0063	1594mm	62.77in	1583mm	62.34in	6mm	0.24in	31.67	1837
m1678	i0066	1678mm	66.05in	1667mm	65.62in	6mm	0.24in	33.33	1933
m1761	i0069	1761mm	69.33in	1750mm	68.90in	6mm	0.24in	35.00	2030
m1844	i0073	1844mm	72.61in	1833mm	72.18in	6mm	0.24in	36.67	2127
m1928	i0076	1928mm	75.89in	1917mm	75.46in	6mm	0.24in	20.00	1160
m2011	i0079	2011mm	79.17in	2000mm	78.74in	6mm	0.24in	40.00	2320

¹ Actual total overall length of light fixture (LED strip + end caps + void/wire hole)

² Actual length of PCB strip

³ Actual length of 2x end caps



Linear

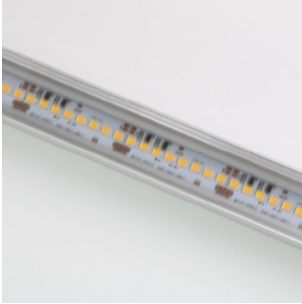
LINI-S XL R207

Options

KKDC

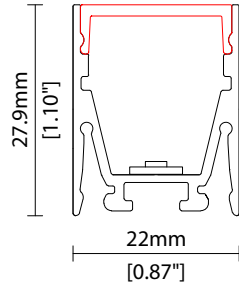
COVER/LENS OPTIONS

* Options are an integral part of the fixture ordering codes. Please refer to **Code Table** pages.



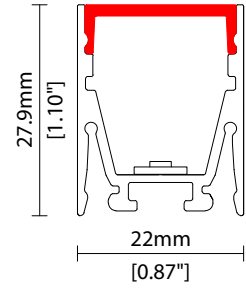
B Clear cover

W22/H27.9mm (W0.87/H1.10")



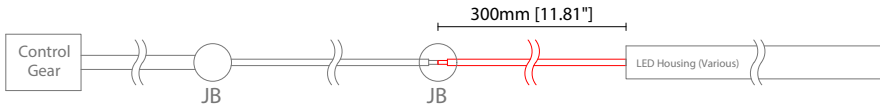
C Diffused cover

W22/H27.9mm (W0.87/H1.10")

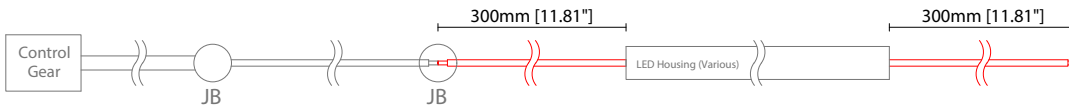


POWER FEED OPTIONS

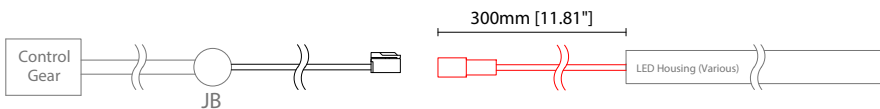
0300 S00X 300mm (11.81") Single no sheath tail



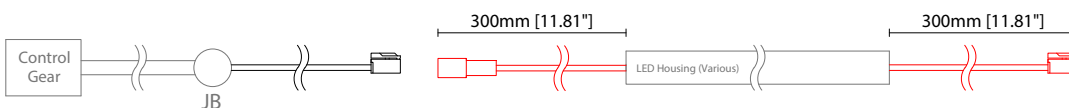
0300 D00X 300mm (11.81") Double no sheath tail



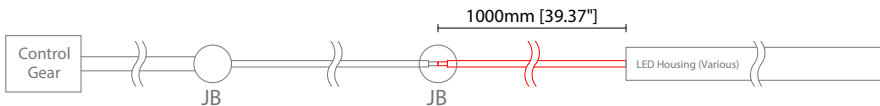
0300 S20X 300mm (11.81") Single no sheath IP20 connector



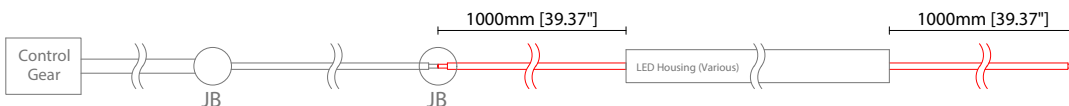
0300 D20X 300mm (11.81") Double no sheath IP20 connector



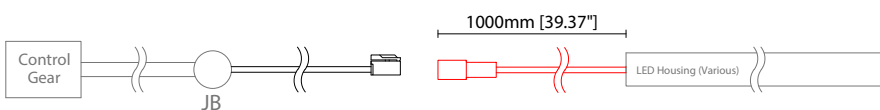
1000 S00X 1000mm (39.37") Single no sheath tail



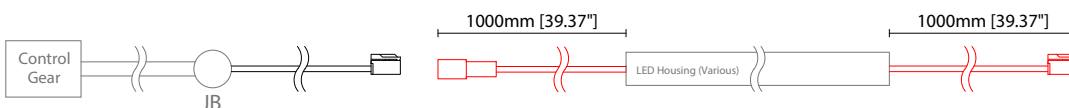
1000 D00X 1000mm (39.37") Double no sheath tail



1000 S20X 1000mm (39.37") Single no sheath IP20 connector



1000 D20X 1000mm (39.37") Double no sheath IP20 connector



Key

Control Gear Power supply, sub-controllers & control systems

JB Junction box / cable connection

Linear

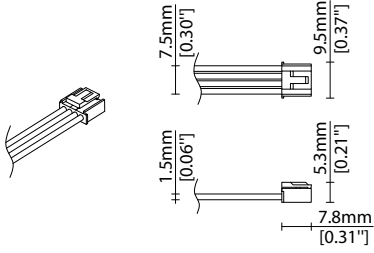
LINI-S XL R207

Options

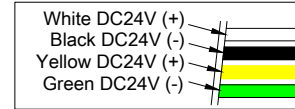
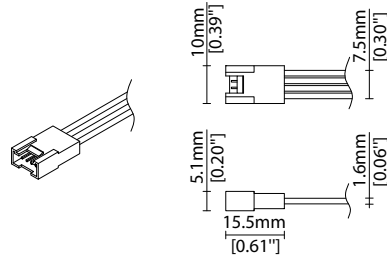


POWER FEED OPTIONS (CONTINUED)

4 Pin LEDmix Female Connector



4 Pin LEDmix Male Connector



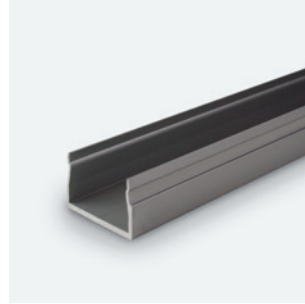
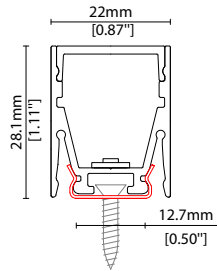
MOUNTING ACCESSORIES

Note: Accessories are to be ordered separately with corresponding code shown below.



KKCP-11

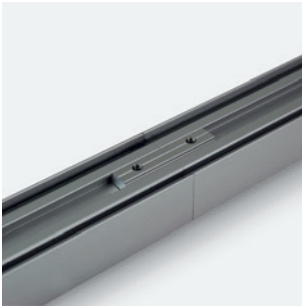
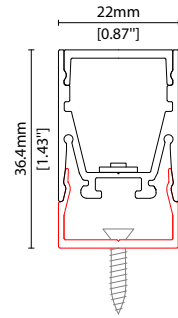
Concealed clip
(allow 3 per metre/40in)
S/Steel finish
L20/W22/H28.1mm
(L0.79/W0.87/H1.11")



KKCR-01-1000 1000mm (39.37in)
KKCR-01-2000 2000mm (78.74in)
KKCR-01-3000 3000mm (118.11in)

Cable raceway*
anodised aluminium finish
W22/H36.4mm (W0.87/H1.43")

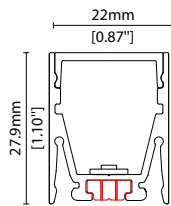
* Cut & drilled to fit on site



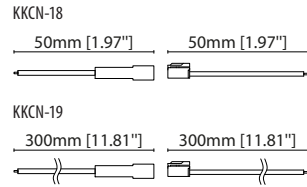
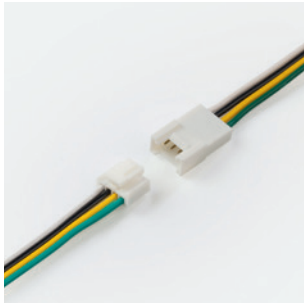
KKJT-02

Joining bar* (allow 1 per join)
anodised aluminium finish
L25mm (L0.98")

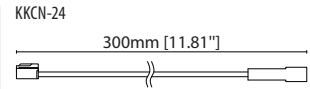
* Mounting option required with
Joining bar



POWER FEED



KKCN-18 50mm (1.97in) pair
KKCN-19 300mm (11.81in) pair
4 PIN LEDmix male + female
connector set



KKCN-24
4 PIN LEDmix 300mm (11.81in)
extension lead

KKDC CONTROL



IP20
Plastic housing
L170/W59/H29mm
(L6.69/W2.32/H1.14in)

KKDM-06 1-10V
visDIM dimmable sub-controller
(4 x 8A max @ 12-36V)



IP20
Plastic housing
L170/W53.4/H28mm
(L6.69/W2.10/H1.10in)

KKSC-05 DMX
visDIM dimmable sub-controller
(4 x 5A max @ 12-36V)



IP20
Plastic housing
L170/W59/H29mm
(L6.69/W2.32/H1.14in)

KKDL-02 DALI
visDIM dimmable sub-controller
(4 x 8A max @ 12-36V)



IP20
Plastic housing
L166/W53.4/H23mm
(L6.54/W2.10/H0.91in)

KKDL-03 DALI
visDIM dimmable sub-controller
(4 x 5A max @ 12-36V)

AVAILABLE PSU OPTIONS

Control Mode	PSU (Order Code)	Input Voltage AC	Output Voltage DC	Rated Output Current	Rated Power	Dim %	IP Rating
Switched	CEN-60-24	90-295V	24V	2.5A	60W	-	IP67
	HLG-60H-24	90-305V	24V	2.5A	60W	-	IP67
	HLG-100H-24	90-305V	24V	4.0A	100W	-	IP67
	HLG-150H-24	90-305V	24V	6.3A	150W	-	IP67
	HLG-240H-24	90-305V	24V	10A	240W	-	IP67
0-10V (1-10V)	PWM-40-24	90-305V	24V	1.67A	40W	100-0.15 (100-10)	IP67
	PWM-60-24	90-305V	24V	2.5A	60W	100-0.15 (100-10)	IP67
	PWM-90-24	90-305V	24V	3.67A	90W	100-0.15 (100-10)	IP67
	PWM-120-24	90-305V	24V	5.0A	120W	100-0.15 (100-10)	IP67
DALI	LIN100A1	120-277V	24V	1A per channel	100W	100-0.1	IP66/IP40
DMX RGB	LIN100A1	120-277V	24V	1.33A per channel	100W	100-0.1	IP66/IP40
DMX RGBW	LIN100A1	120-277A	24V	1A per channel	100W	100-0.1	IP66/IP40

Flicker Free Options - Combination of PSU+ sub-controller

Control Mode	PSU (Order Code)	Sub-controller (Order Code)	Input Voltage AC	Output Voltage DC	Rated Output Current	Rated Power	Dim %	IP Rating PSU/ Sub-controller
0-10V or 1-10V	CEN-60-24	KKDM-06	90-295V	24V	2.5A	60W	100-0.9	IP67/IP20
	HLG-60H-24	KKDM-06	90-295V	24V	2.5A	60W	100-0.9	IP67/IP20
	HLG-100H-24	KKDM-06	90-295V	24V	4.0A	100W	100-0.9	IP67/IP20
	HLG-150H-24	KKDM-06	90-295V	24V	6.3A	150W	100-0.9	IP67/IP20
	HLG-240H-24	KKDM-06	90-295V	24V	10.0A	240W	100-0.9	IP67/IP20
DALI	CEN-60-24	KKDL-02/03	90-295V	24V	2.5A	60W	100-0.1	IP67/IP20
	HLG-60H-24	KKDL-02/03	90-305V	24V	2.5A	60W	100-0.1	IP67/IP20
	HLG-100H-24	KKDL-02/03	90-305V	24V	4.0A	100W	100-0.1	IP67/IP20
	HLG-150H-24	KKDL-02/03	90-305V	24V	6.3A	150W	100-0.1	IP67/IP20
	HLG-240H-24	KKDL-02/03	90-305V	24V	10.0A	240W	100-0.1	IP67/IP20
DMX RGB	CEN-60-24	KKSC-05	90-295V	24V	2.5A	60W	100-0.9	IP67/IP20
	HLG-60H-24	KKSC-05	90-305V	24V	2.5A	60W	100-0.9	IP67/IP20
	HLG-100H-24	KKSC-05	90-305V	24V	4A	100W	100-0.9	IP67/IP20
	HLG-150H-24	KKSC-05	90-305V	24V	6.3A	150W	100-0.9	IP67/IP20
	HLG-240H-24	KKSC-05	90-305V	24V	10.0A	240W	100-0.9	IP67/IP20

¹ The items shown above cover the most frequently used specification but does not exhaust the possible options

² PSU and/or driver can be chosen from the table, or KKDC may recommend the best option upon receipt of the controls requirement and installation environment

³ Electrical shop drawing will include detailed information of PSU and relevant control drivers

⁴ Cut sheets are available on the controls section of www.kkdc.lighting or upon request