

Linear

LINI-R XL R207

Fixture Guide

KKDÖ

Indoor | Recessed | Dynamic output up to 594lm/m (181lm/ft)

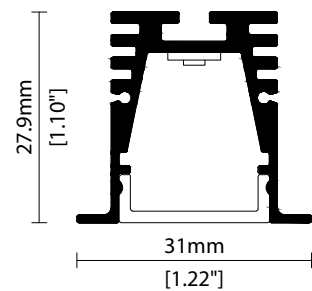


Key applications

- ✓ Architectural detail
- ✓ Ceiling
- ✓ Direct lighting
- ✓ Downlighting
- ✓ Interior
- ✓ Special effect

Key features

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



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

Linear

LINE-R XL R207

Specification sheet



Dimensions	H27.9/W31/L99-2016mm (H1.1/W1.22/L3.89-79.37in) (excluding spring clips)
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	Diffused (110°)
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-step MacAdam ellipse k-line: 3-step MacAdam ellipse
CRI	≥94
Lifetime	50,000 hours @ 25°C (50,000 hours @ 77°F)
Operating temp	T _a = -25 to 50°C (T _c max = 59°C) T _a = -13 to 122°F (T _c max = 138°F)
IP Rating	IP40
Finish	Silver anodised
Mounting	Recessed mounting via spring clip
Power feed	Hardwire tails or male/female connectors
Control	0-10V/1-10V/DMX/DALI



LED Grading Key

Exclusive Grade

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

Base Grade

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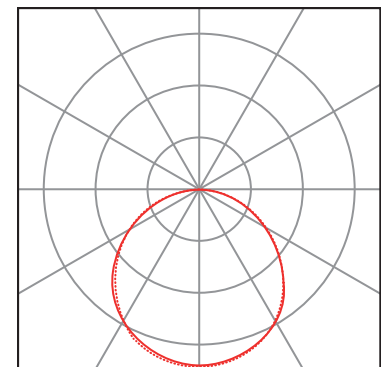
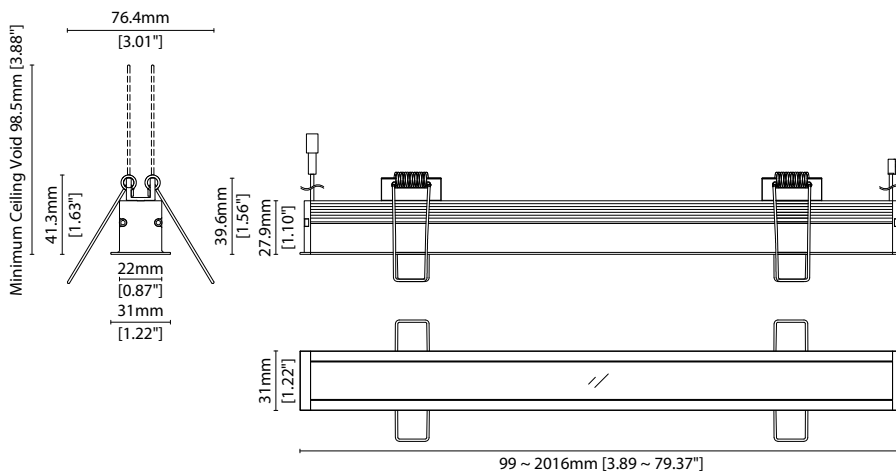
Power consumption	Supply voltage	Supply current
16W/m (4.88W/ft)	24V DC	0.67A/m (0.20A/ft)

Performance Data (2100K+5000K)

	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
k-line	96	96	97	98	96	92	94	96	95	93	96	78	95	99

Diffused Cover

												CRI	R9	Rf	Rg
s-line	594lm/m (181lm/ft)											97	96	-	-
	37.1lm/W														
k-line	560lm/m (171lm/ft)											96	95	-	-
	35lm/W														



— C0 / C180 cd / 1000 lm - - - C90 / C270

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

See KKDC website for product document updates.

www.kkdc.lighting

LINE-R XL R207S-03.04EN-20240513

LINE-R XL R207

Code Table



FIXTURE

Model	Finish	Cover	Grade ¹	LED	Colour (CCT)	Length Availability ²	IP	Cable Length	Power Feed ³	Input									
LINE-R XL	RX Silver Anodised	SA Diffused	C	s	R207	R207	1900K	19	m	99.3-2016mm 83.3mm increments	IP40	40	300mm/ 11.81"	0300	Single no sheath tail	S00X	DC 24V	g	
					2100K	21	Double no sheath tail	D00X											
					2300K	23	i	3.91-79.37in 3.28in increments							Single no sheath IP20 connector	S20X			
					2500K	25									Double no sheath IP20 connector	D20X			
					2700K	27													(Specify length code OR total run length)
					3000K	30													
					3500K	35													
					4000K	40													
					5000K	50													

¹ Refer to **LED Grading Key** on **Specification sheet** page

² Refer to **Length Availability List** or enter total run length instead of length code

³ Refer to **Power Feed Options** on **Options** pages

⁴ LEDmix requires two colour temperature choices

Code Example:

RX	-	SA	-	C	-	s	-	R207	-	2150	-	m	-	516	-	40	-	0300	-	D00X	-	g
LINE-R XL		Silver Anodised		Diffused				R207		2100K+5000K		516mm		IP40		300mm/11.81"		Double no sheath tail		DC 24V		

ACCESSORIES

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

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 **Power feed** 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	265	81	7	2.13	LINE-R XL R007	99-2016mm (3.89-79.37in)	41.7mm (3.28in)
	R014	534	163	14	4.27	LINE-R XL R014	99-2016mm (3.89-79.37in)	41.7mm (3.28in)
	R020	731	223	20	6.10	LINE-R XL A020	99-2016mm (3.89-79.37in)	41.7mm (3.28in)
	A040	2000	610	40	12.2	LINE-R XL A040	93-1516mm (3.66-59.68in)	38.46mm (1.51in)
Warm Dim/Dynamic White	R207	594	181	16	4.88	LINE-R XL R207	99-2016mm (3.89-79.37in)	83.3mm (3.28in)
RGB	501	Red 61 Green 132 Blue 22 RGB 192	Red 19 Green 40 Blue 7 RGB 59	15.6	4.75	LINE-R XL RGB	99-2016mm (3.89-79.37in)	83.3mm (3.28in)
RGBW	R201	441	134	20	6.10	LINE-R XL RGBW	141-2016mm (5.55-79.37in)	62.5 (2.46in)

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

LINI-R XL R207

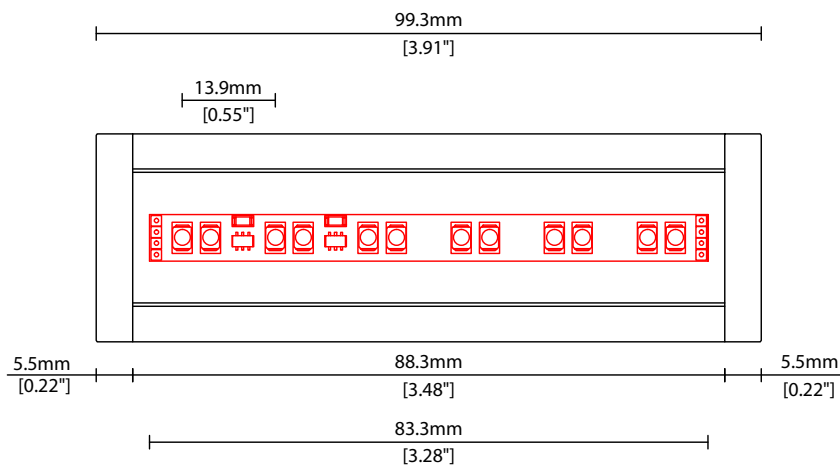
Length Availability List

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)
m0099	i0004	99mm	3.91in	83mm	3.28in	11mm	0.43in	1.67	58
m0183	i0007	183mm	7.19in	167mm	6.56in	11mm	0.43in	3.33	117
m0266	i0010	266mm	10.47in	250mm	9.84in	11mm	0.43in	5.00	175
m0349	i0014	349mm	13.75in	333mm	13.12in	11mm	0.43in	6.67	233
m0433	i0017	433mm	17.03in	417mm	16.40in	11mm	0.43in	8.33	292
m0516	i0020	516mm	20.31in	500mm	19.69in	11mm	0.43in	10.00	350
m0599	i0024	599mm	23.60in	583mm	22.97in	11mm	0.43in	11.67	408
m0683	i0027	683mm	26.88in	667mm	26.25in	11mm	0.43in	13.33	467
m0766	i0030	766mm	30.16in	750mm	29.53in	11mm	0.43in	15.00	525
m0849	i0033	849mm	33.44in	833mm	32.81in	11mm	0.43in	16.67	583
m0933	i0037	933mm	36.72in	917mm	36.09in	11mm	0.43in	18.33	642
m1016	i0040	1016mm	40.00in	1000mm	39.37in	11mm	0.43in	20.00	700
m1099	i0043	1099mm	43.28in	1083mm	42.65in	11mm	0.43in	21.67	758
m1183	i0047	1183mm	46.56in	1167mm	45.93in	11mm	0.43in	23.33	817
m1266	i0050	1266mm	49.84in	1250mm	49.21in	11mm	0.43in	25.00	875
m1349	i0053	1349mm	53.12in	1333mm	52.49in	11mm	0.43in	26.67	933
m1433	i0056	1433mm	56.40in	1417mm	55.77in	11mm	0.43in	28.33	992
m1516	i0060	1516mm	59.69in	1500mm	59.06in	11mm	0.43in	30.00	1050
m1599	i0063	1599mm	62.97in	1583mm	62.34in	11mm	0.43in	31.67	1108
m1683	i0066	1683mm	66.25in	1667mm	65.62in	11mm	0.43in	33.33	1167
m1766	i0070	1766mm	69.53in	1750mm	68.90in	11mm	0.43in	35.00	1225
m1849	i0073	1849mm	72.81in	1833mm	72.18in	11mm	0.43in	36.67	1283
m1933	i0076	1933mm	76.09in	1917mm	75.46in	11mm	0.43in	20.00	700
m2016	i0079	2016mm	79.37in	2000mm	78.74in	11mm	0.43in	40.00	1400

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





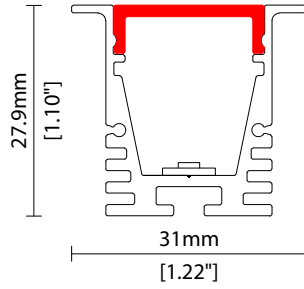
LINI-R XL R207

Options



COVER/LENS OPTIONS

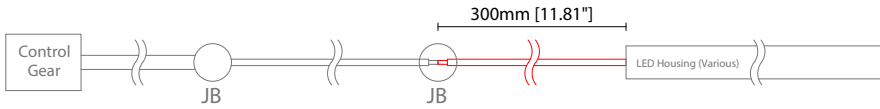
* Options are an integral part of the fixture ordering codes. Please refer to **Code Table** pages.



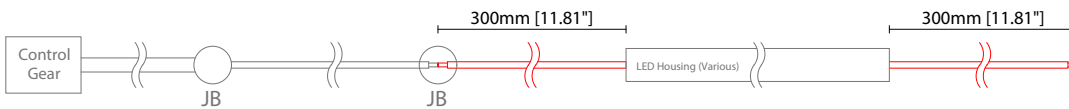
C Diffused cover
W31/H27.9mm (W1.22/H1.10")

POWER FEED OPTIONS

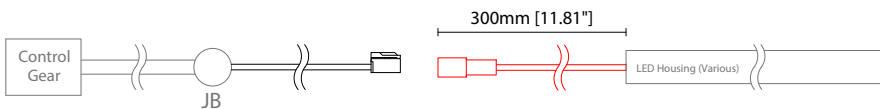
0300 S00X 300mm (11.81") Single no sheath tail



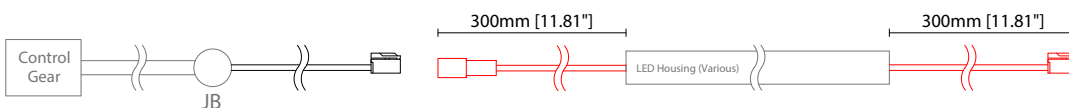
0300 D00X 300mm (11.81") Double no sheath tail



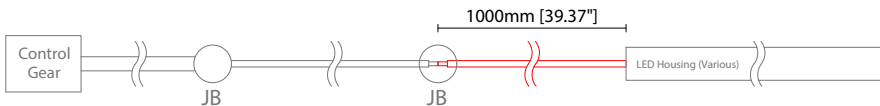
0300 S20X 300mm (11.81") Single no sheath IP20 connector



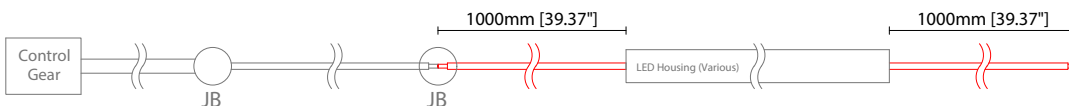
0300 D20X 300mm (11.81") Double no sheath IP20 connector



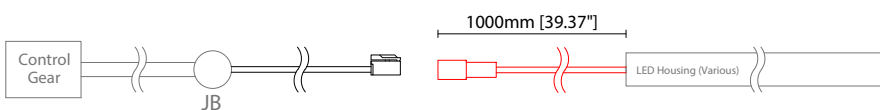
1000 S00X 1000mm (39.37") Single no sheath tail



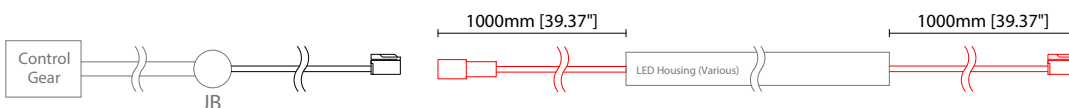
1000 D00X 1000mm (39.37") Double no sheath tail



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



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



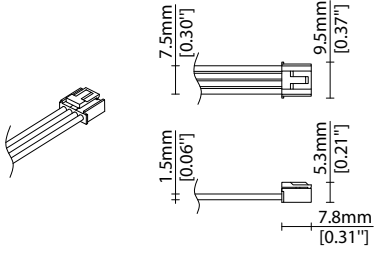
Key

Control Gear Power supply, sub-controllers & control systems

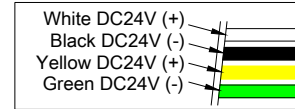
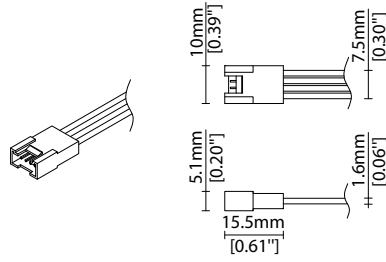
JB Junction box / cable connection

POWER FEED OPTIONS (CONTINUED)

4 Pin LEDmix Female Connector

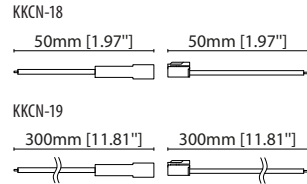
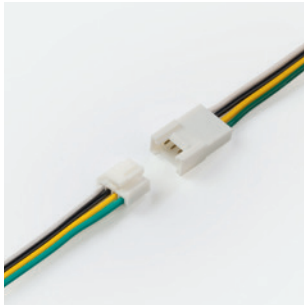


4 Pin LEDmix Male Connector

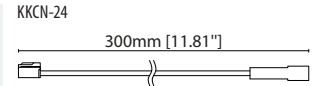


POWER FEED

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



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