

Linear

TANA R020 Fixture Guide

KKDÖ

Indoor | Surface | Output up to 1569lm/m (478m/ft)

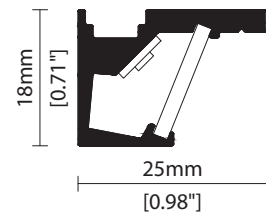


Key applications

- ✓ Architectural detail
- ✓ Cabinet & furniture
- ✓ Direct lighting
- ✓ Display case
- ✓ Interior
- ✓ Retail display
- ✓ Shelving display

Key features

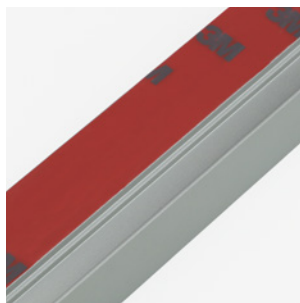
- ✓ Custom lengths
- ✓ Constant Voltage (CV)
- ✓ Continuous light runs
- ✓ Diffusion: homogenous
- ✓ Extensive CCT range
- ✓ IP40 dry area



FIXING METHODS



SF Screw fixing



TF 3M tape fixing



MF Magnet fixing

Linear

TANA R020

Specification sheet



Dimensions	H18/W25/L103-2020mm (H0.71/W0.98/L4.05-79.53in)
PCB Cut-point	41.7mm increment/2000mm max (1.64in increment/78.74in max)
LED Pitch	6.95mm-144LED/m (0.27in - 44LED/ft)
Chip	s-line k-line
Cover/Optics	Diffused (110°)/Clear @ 45 degree position (90°)/Clear @ 5 degree position (50°)
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	≥93
Lifetime	50,000 hours @ 25°C (50,000 hours @ 77°F)
Operating temp	T _a = -25 to 50°C (T _c max = 70°C) T _a = -13 to 140°F (T _c max = 158°F)
IP Rating	IP40
Finish	Silver anodised
Mounting	Surface mounting via screw fixing, 3M tape or magnets
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
------------------------	---

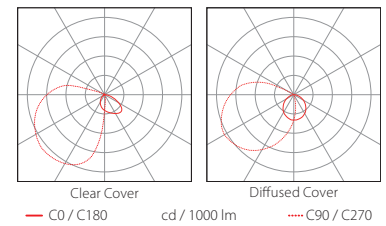
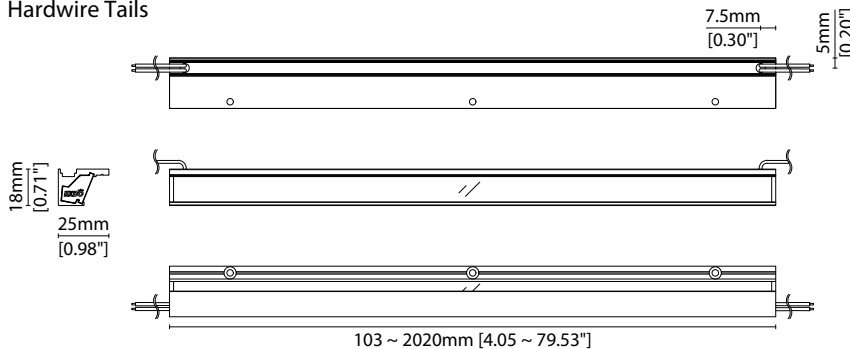
Power consumption	Supply voltage	Supply current
20W/m (6.10W/ft)	24V DC	0.83A/m (0.25A/ft)

Performance Data (3000K)

	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
k-line	93	96	97	92	92	94	92	83	64	90	92	74	93	98

	Clear Cover	Diffused Cover	CRI	R9	Rf	Rg
s-line	1569lm/m (478m/ft) 78.4lm/W	1102lm/m (336m/ft) 55.1lm/W	94	65	-	-
k-line	1480lm/m 451(lm/ft) 74lm/W	1040lm/m 317(lm/ft) 52lm/W	93	64	-	-

Hardwire Tails



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

FIXTURE

Model	Finish	Cover ¹	Grade ²	LED	Colour (CCT)	Length Availability ³	IP	Cable Length	Power Feed ⁴	Fixing ⁵	LED Position ⁶	Input					
TANA	TN Silver Anodised	SA Clear Diffused	B s C k	s k	R020	1900K	19	m 103.3-2020mm 83.3mm increments i 4.07-79.53in 3.28in increments (Specify length code OR total run length)	IP40	40	50mm/ 1.97"	0050	Single no sheath tail 3M Tape Double no sheath tail Magnet Single no sheath IP20 connector Double no sheath IP20 connector	S00X D00X S20X D20X	Screw SF TF MF	5° 05 45° 45	DC g 24V
					R020	2100K	21				1000mm/ 39.37"	1000					
					R020	3200K	32				3000mm/ 118.11"	3000					
					R020	2500K	25										
					R020	2700K	27										
					R020	3000K	30										
					R020	3500K	35										
					R020	4000K	40										
					R020	5000K	50										

¹ Refer to **Cover 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 Refer to **Fixing Options** on **Options** pages ⁶ Refer to **LED Position Options** on **Options** pages

Code Example:

TN	-	SA	-	C	-	s	-	R020	-	35	-	m	-	520	-	40	-	1000	-	S00X	-	SF	-	05	-	g
TANA		Silver Anodised		Diffused				R020		3500K		520mm		IP40		1000mm/39.37"		Single no sheath tail		Screw		5°		DC 24V		

ACCESSORIES

Connection Accessories

KKCN-02	2 PIN male & female JST 50mm (1.97in) pair
KKCN-04	2 PIN male & female JST 300mm (11.81in) pair
KKCN-05	2 PIN JST 300mm (11.81in) 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	534	163	7	2.13	TANA R007	103-2020mm (4.05-79.53in)	41.7mm (1.64in)
	R014	1098	335	14	4.27	TANA R014	103-2020mm (4.05-79.53in)	41.7mm (1.64in)
	R020	1569	478	20	6.10	TANA R020	103-2020mm (4.05-79.53in)	41.7mm (1.64in)
Warm Dim/Dynamic White	2 R014	1751	534	28	8.53	TANA2 R014	103-2020mm (4.05-79.53in)	41.7mm (1.64in)
	R207	1221	372	16	4.88	TANA R207	103-2020mm (4.05-79.53in)	83.3mm (3.28in)
RGB	501	Red 119 Green 257 Blue 42 RGB 372	Red 36 Green 78 Blue 13 RGB 113	15.6	4.75	TANA RGB	103-2020mm (4.05-79.53in)	83.3mm (3.28in)

* Performance data: s-line, clear cover, 3000K

TANA R020

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)
m0103	i0004	103mm	4.07in	83mm	3.28in	0mm	0.00in	1.67	123
m0145	i0006	145mm	5.71in	125mm	4.92in	0mm	0.00in	2.50	185
m0187	i0007	187mm	7.35in	167mm	6.56in	0mm	0.00in	3.33	247
m0228	i0009	228mm	8.99in	208mm	8.20in	0mm	0.00in	4.17	308
m0270	i0011	270mm	10.63in	250mm	9.84in	0mm	0.00in	5.00	370
m0312	i0012	312mm	12.27in	292mm	11.48in	0mm	0.00in	5.83	432
m0353	i0014	353mm	13.91in	333mm	13.12in	0mm	0.00in	6.67	493
m0395	i0016	395mm	15.55in	375mm	14.76in	0mm	0.00in	7.50	555
m0437	i0017	437mm	17.19in	417mm	16.40in	0mm	0.00in	8.33	617
m0478	i0019	478mm	18.83in	458mm	18.04in	0mm	0.00in	9.17	678
m0520	i0020	520mm	20.47in	500mm	19.69in	0mm	0.00in	10.00	740
m0562	i0022	562mm	22.11in	542mm	21.33in	0mm	0.00in	10.83	802
m0603	i0024	603mm	23.75in	583mm	22.97in	0mm	0.00in	11.67	863
m0645	i0025	645mm	25.39in	625mm	24.61in	0mm	0.00in	12.50	925
m0687	i0027	687mm	27.03in	667mm	26.25in	0mm	0.00in	13.33	987
m0728	i0029	728mm	28.67in	708mm	27.89in	0mm	0.00in	14.17	1048
m0770	i0030	770mm	30.31in	750mm	29.53in	0mm	0.00in	15.00	1110
m0812	i0032	812mm	31.96in	792mm	31.17in	0mm	0.00in	15.83	1172
m0853	i0034	853mm	33.60in	833mm	32.81in	0mm	0.00in	16.67	1233
m0895	i0035	895mm	35.24in	875mm	34.45in	0mm	0.00in	17.50	1295
m0937	i0037	937mm	36.88in	917mm	36.09in	0mm	0.00in	18.33	1357
m0978	i0039	978mm	38.52in	958mm	37.73in	0mm	0.00in	19.17	1418
m1020	i0040	1020mm	40.16in	1000mm	39.37in	0mm	0.00in	20.00	1480
m1062	i0042	1062mm	41.80in	1042mm	41.01in	0mm	0.00in	20.83	1542
m1103	i0043	1103mm	43.44in	1083mm	42.65in	0mm	0.00in	21.67	1603
m1145	i0045	1145mm	45.08in	1125mm	44.29in	0mm	0.00in	22.50	1665
m1187	i0047	1187mm	46.72in	1167mm	45.93in	0mm	0.00in	23.33	1727
m1228	i0048	1228mm	48.36in	1208mm	47.57in	0mm	0.00in	24.17	1788
m1270	i0050	1270mm	50.00in	1250mm	49.21in	0mm	0.00in	25.00	1850
m1312	i0052	1312mm	51.64in	1292mm	50.85in	0mm	0.00in	25.83	1912
m1353	i0053	1353mm	53.28in	1333mm	52.49in	0mm	0.00in	26.67	1973
m1395	i0055	1395mm	54.92in	1375mm	54.13in	0mm	0.00in	27.50	2035
m1437	i0057	1437mm	56.56in	1417mm	55.77in	0mm	0.00in	28.33	2097
m1478	i0058	1478mm	58.20in	1458mm	57.41in	0mm	0.00in	29.17	2158
m1520	i0060	1520mm	59.84in	1500mm	59.06in	0mm	0.00in	30.00	2220
m1562	i0061	1562mm	61.48in	1542mm	60.70in	0mm	0.00in	30.83	2282
m1603	i0063	1603mm	63.12in	1583mm	62.34in	0mm	0.00in	31.67	2343
m1645	i0065	1645mm	64.76in	1625mm	63.98in	0mm	0.00in	32.50	2405
m1687	i0066	1687mm	66.40in	1667mm	65.62in	0mm	0.00in	33.33	2467
m1728	i0068	1728mm	68.04in	1708mm	67.26in	0mm	0.00in	34.17	2528
m1770	i0070	1770mm	69.69in	1750mm	68.90in	0mm	0.00in	35.00	2590
m1812	i0071	1812mm	71.33in	1792mm	70.54in	0mm	0.00in	35.83	2652
m1853	i0073	1853mm	72.97in	1833mm	72.18in	0mm	0.00in	36.67	2713

TANA R020

Length Availability List

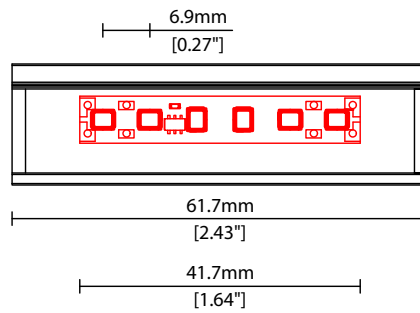


Length Code		Fixture Length ¹		LED Strip ²		End Cap Dimension ³		Wattage (W)	Output (lm)
Metric	Imperial(US)	Metric	Imperial(US)	Metric	Imperial(US)	Metric	Imperial(US)		3000K (Test Data)
m1895	i0075	1895mm	74.61in	1875mm	73.82in	0mm	0.00in	37.50	2775
m1937	i0076	1937mm	76.25in	1917mm	75.46in	0mm	0.00in	38.33	2837
m1978	i0078	1978mm	77.89in	1958mm	77.10in	0mm	0.00in	39.17	2898
m2020	i0080	2020mm	79.53in	2000mm	78.74in	0mm	0.00in	40.00	2960

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

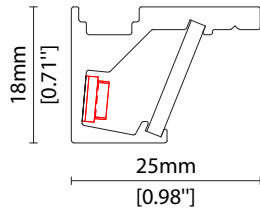
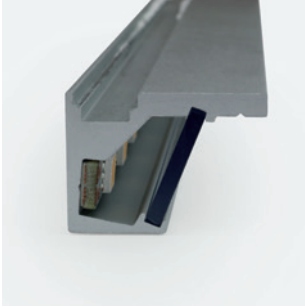
² Actual length of PCB strip

³ Actual length of 2x end caps

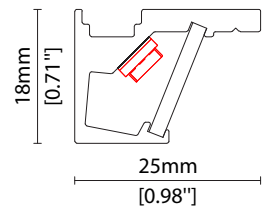


LED POSITION OPTIONS

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

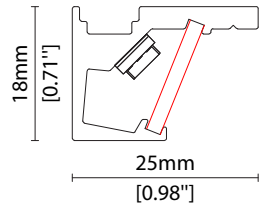


05 5° LED position

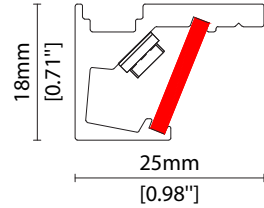


45 45° LED position

COVER OPTIONS

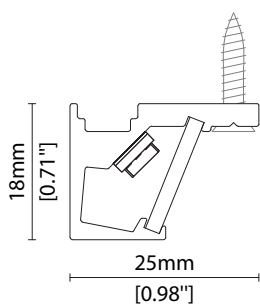


B Clear cover
Polycarbonate

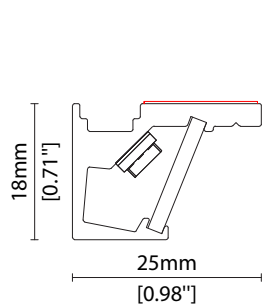
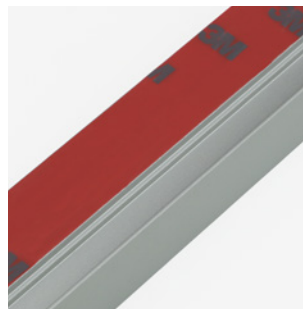


C Diffused cover
Polycarbonate

FIXING OPTIONS

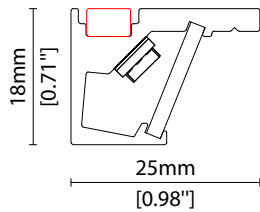
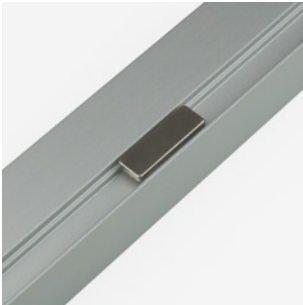


SF Screw fixing



TF 3M tape fixing

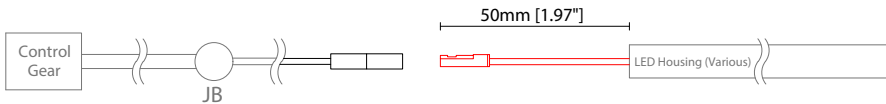
FIXING OPTIONS (CONTINUED)



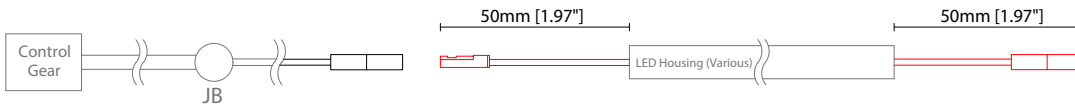
MF Magnet fixing

POWER FEED OPTIONS

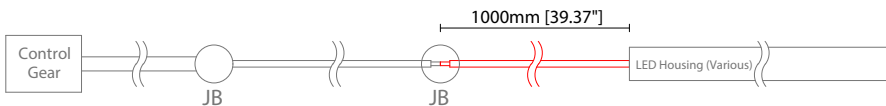
0050 S20X 50mm (1.97") Single IP20 connector



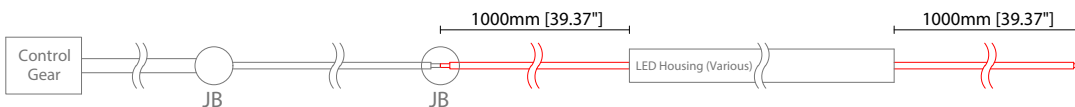
0050 D20X 50mm (1.97") Double IP20 connector



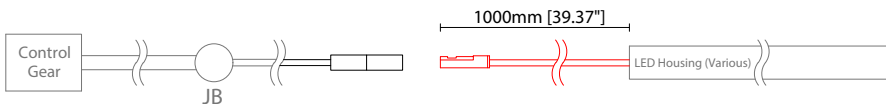
1000 S00X 1000mm (39.37") Single tail



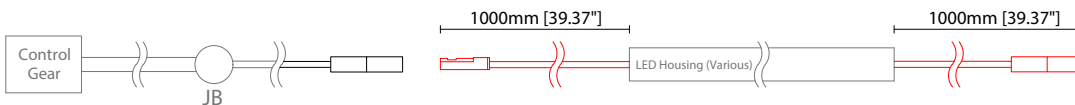
1000 D00X 1000mm (39.37") Double tail



1000 S20X 1000mm (39.37") Single IP20 connector



1000 D20X 1000mm (39.37") Double IP20 connector



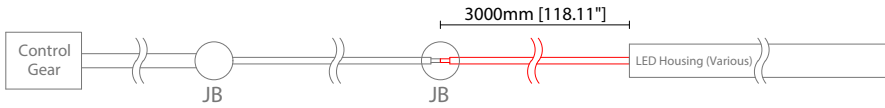
Key

Control Gear Power supply, sub-controllers & control systems

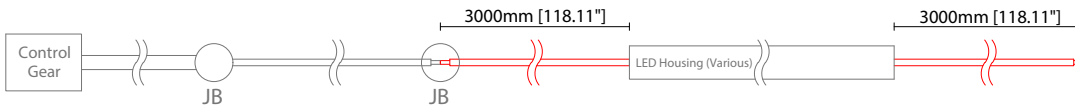
JB Junction box / cable connection

POWER FEED OPTIONS (CONTINUED)

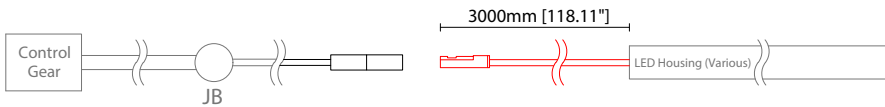
3000 S00X 3000mm (118.11") Single tail



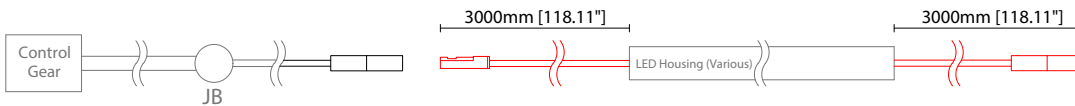
3000 D00X 3000mm (118.11") Double tail



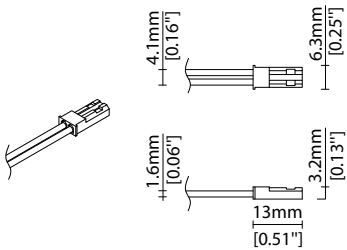
3000 S20X 3000mm (118.11") Single IP20 connector



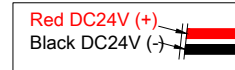
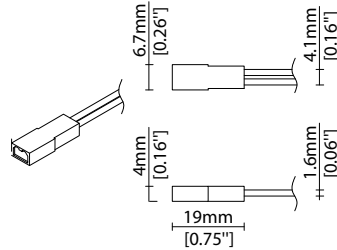
3000 D20X 3000mm (118.11") Double IP20 connector



JST 2 Pin Female Connector



JST 2 Pin Male Connector

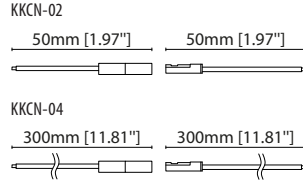
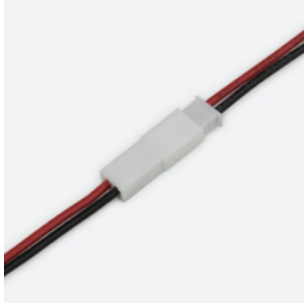


Key

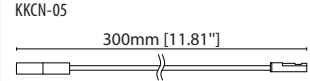
- Control Gear Power supply, sub-controllers & control systems
- JB Junction box / cable connection

POWER FEED

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



KKCN-02 50mm (1.97in) pair
KKCN-04 300mm (11.81in) pair
 2 PIN male + female JST connector set



KKCN-05
 2 PIN 300mm (11.81in) extension lead (JST)

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)



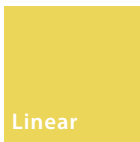
IP20
 Plastic housing
 L170/W59/H29mm
 (L6.69/W2.32/H1.14in)

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)



TANA

Driver/PSU Options



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