

Linear

# TANA Nano 3 RS14

## Fixture Guide

# KKDC

Indoor | Surface | Output up to 876lm/m (267lm/ft)

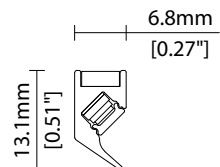


### Key applications

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

### Key features

- ✓ Custom lengths
- ✓ Constant Voltage (CV)
- ✓ Diffusion: semi-homogenous
- ✓ Direct view
- ✓ Extensive CCT range
- ✓ IP40 dry area
- ✓ Thin light line



### FIXING METHODS



Magnet fixing

Linear

# TANA Nano 3 RS14

## Specification sheet



<b>Dimensions</b>	H13.1/W6.8/L76-2005mm (H0.52/W0.27/L2.99-78.94in)
<b>PCB Cut-point</b>	35.7mm increment/2000mm max (1.41in increment/78.74in max)
<b>LED Pitch</b>	6mm-168LED/m (0.24in - 51LED/ft)
<b>Chip</b>	<b>s-line</b> <b>k-line</b>
<b>Cover/Optics</b>	Diffused (90°)
<b>CCT</b>	<b>s-line:</b> 1900K/2100K/2300K/2500K/2700K/3000K/3500K/4000K/5000K <b>k-line:</b> 1900K/2100K/2300K/2500K/2700K/3000K/3500K/4000K/5000K
<b>LED binning</b>	<b>s-line:</b> 2-step MacAdam ellipse <b>k-line:</b> 3-step MacAdam ellipse
<b>CRI</b>	≥94
<b>Lifetime</b>	50,000 hours @ 25°C (50,000 hours @ 77°F)
<b>Operating temp</b>	T <sub>a</sub> = -25 to 50°C (T <sub>c</sub> max = 72.9°C) T <sub>a</sub> = -13 to 122°F (T <sub>c</sub> max = 163°F)
<b>IP Rating</b>	IP40
<b>Finish</b>	Silver anodised
<b>Mounting</b>	Surface mounting via magnet
<b>Power feed</b>	Hardwire tails or male/female connectors
<b>Control</b>	0-10V/1-10V/DMX/DALI



### LED Grading Key

#### Exclusive Grade

**s-line\***  
2-step CCT range

\*KKDC tuned  
CCT range

#### Base Grade

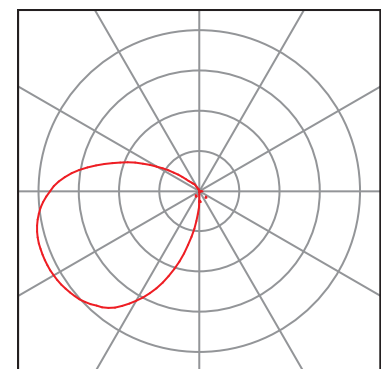
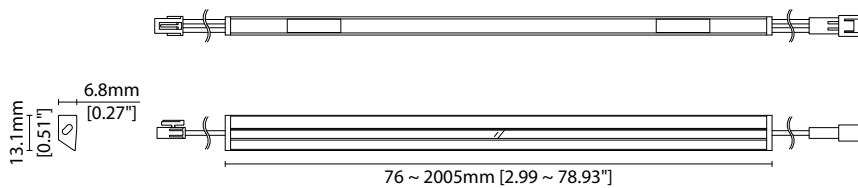
**k-line**  
3-step commercial range  
Energy Star CCTs

<b>Power consumption</b>	<b>Supply voltage</b>	<b>Supply current</b>
14W/m (4.27W/ft)	24V DC	0.58A/m (0.18A/ft)

### Performance Data (3000K)

	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
<b>k-line</b>	94	98	99	94	95	97	91	83	63	94	95	81	96	99

Diffused		CRI	R9	Rf	Rg
<b>s-line</b>	876lm/m (267lm/ft) 63lm/w	94	64	-	-
<b>k-line</b>	826lm/m (252lm/ft) 59lm/w	93	63	-	-



Diffused Cover  
— C0 / C180    cd / 1000 lm    ..... C90 / C270

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

Linear

# TANA Nano 3 RS14

## Photometric Simulation

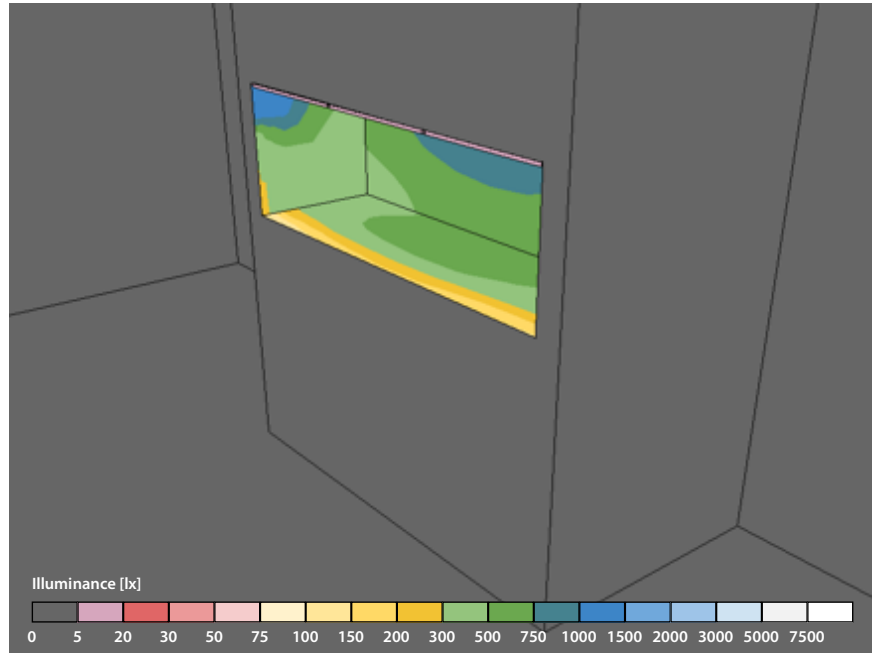
# KKDÖ

### TANA NANO 3

Efficiency: 63lm/w  
Light output: 876lm/m

**TANA Nano 3** perfectly controls undesired light spill, delivering light exactly where it is needed. Conventional lighting can leak light outside the shelf, obstructing the view and causing glare, but **TANA Nano 3** solves this problem.

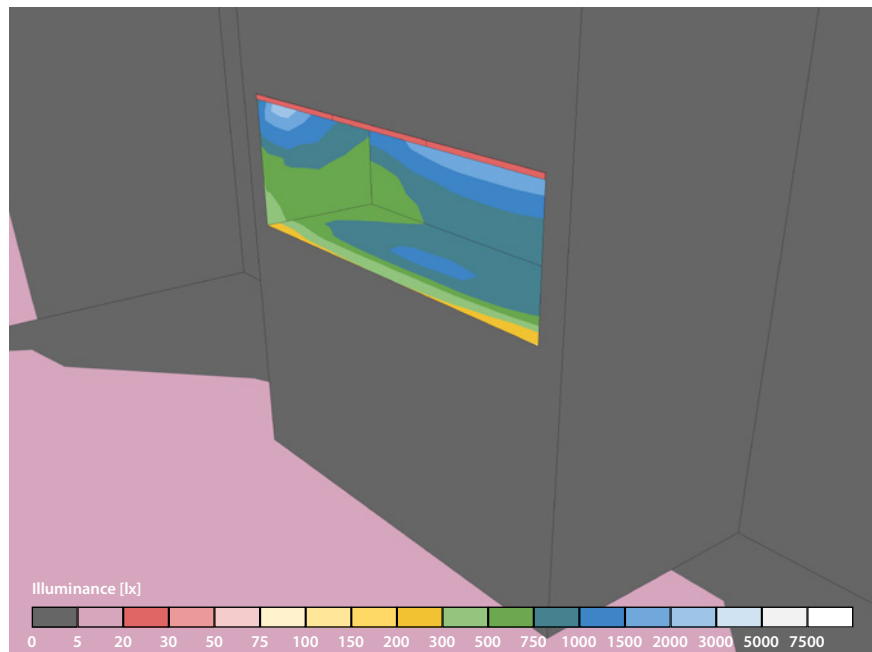
Experience a comfortable environment without glare with optimal light distribution.



### Comparison example:

#### TANA

With clear cover.



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# TANA Nano 3 RS14

## Code Table



### FIXTURE

Model	Finish	Cover <sup>1</sup>	Grade <sup>2</sup>	LED	Colour (CCT)	Length Availability <sup>3</sup>	IP	Cable Length	Power Feed <sup>4</sup>	Fixing <sup>5</sup>	Input				
TANA Nano 3	TA3 Silver Anodised	SA Diffused	C s k	RS14 RS14	1900K	19	m 76.0-2005mm 35.7mm increments	IP40 40	50mm / 1.97"	0050	Single no sheath tail	S00X	Magnet fixing	MF	DC 24V
					2100K	21									
					2300K	23									
					2500K	25	i 2.99-78.94in 1.41in increments	(Specify length code OR total run length)	300mm / 11.81"	0300	Double no sheath tail	D00X	S20X	D20X	
					2700K	27									
					3000K	30									
					3500K	35									
					4000K	40									
					5000K	50									

<sup>1</sup> Refer to **Cover Options** on **Options** pages    <sup>2</sup> Refer to **LED Grading Key** on **Specification sheet** page    <sup>3</sup> Refer to **Length Availability List** or enter total run length instead of length code

<sup>4</sup> Refer to **Power Feed Options** on **Options** pages    <sup>5</sup> Refer to **Fixing Options** on **Options** pages

### Code Example:

TA3	-	SA	-	C	-	s	-	RS14	-	35	-	m	505	-	40	-	1000	-	S00X	-	MF	-	g
TANA Nano 3		Silver Anodised		Diffused		s		RS14		3500K		505mm		IP40		1000mm/39.37"		Single no sheath tail		Magnet fixing		DC 24V	

### ACCESSORIES

#### Connection Accessories

KKCN-01	2 PIN male & female 50mm (1.97in) pair
KKCN-03	2 PIN male & female 300mm (11.81in) pair
KKCN-06	2 PIN 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	RS14	455	139	7	2.13	TANA Nano 3 RS14	76.0-2005mm (2.99-78.94in)	35.7mm (1.41in)
	RS14	876	267	14	4.27	TANA Nano 3 RS14	76.0-2005mm (2.99-78.94in)	35.7mm (1.41in)

\* Performance data: s/k-line, Diffused Cover 3000K

Linear

# TANA Nano 3 RS14

## Length Availability List



Length Code		Fixture Length <sup>1</sup>		LED Strip <sup>2</sup>		End Cap Dimension <sup>3</sup>		Wattage (W)	Output (lm)
Metric	Imperial(US)	Metric	Imperial(US)	Metric	Imperial(US)	Metric	Imperial(US)		3000K (Test Data)
m0076	i0003	76mm	2.99in	71mm	2.81in	4mm	0.16in	1.00	59
m0112	i0004	112mm	4.42in	107mm	4.22in	4mm	0.16in	1.50	89
m0148	i0006	148mm	5.82in	143mm	5.62in	4mm	0.16in	2.00	118
m0184	i0007	184mm	7.23in	179mm	7.03in	4mm	0.16in	2.50	148
m0219	i0009	219mm	8.63in	214mm	8.44in	4mm	0.16in	3.00	177
m0255	i0010	255mm	10.04in	250mm	9.84in	4mm	0.16in	3.50	207
m0291	i0011	291mm	11.45in	286mm	11.25in	4mm	0.16in	4.00	236
m0326	i0013	326mm	12.85in	321mm	12.65in	4mm	0.16in	4.50	266
m0362	i0014	362mm	14.26in	357mm	14.06in	4mm	0.16in	5.00	295
m0398	i0016	398mm	15.66in	393mm	15.47in	4mm	0.16in	5.50	325
m0434	i0017	434mm	17.07in	429mm	16.87in	4mm	0.16in	6.00	354
m0469	i0018	469mm	18.48in	464mm	18.28in	4mm	0.16in	6.50	384
m0505	i0020	505mm	19.88in	500mm	19.69in	4mm	0.16in	7.00	413
m0541	i0021	541mm	21.29in	536mm	21.09in	4mm	0.16in	7.50	443
m0576	i0023	576mm	22.69in	571mm	22.50in	4mm	0.16in	8.00	472
m0612	i0024	612mm	24.10in	607mm	23.90in	4mm	0.16in	8.50	502
m0648	i0026	648mm	25.51in	643mm	25.31in	4mm	0.16in	9.00	531
m0684	i0027	684mm	26.91in	679mm	26.72in	4mm	0.16in	9.50	561
m0719	i0028	719mm	28.32in	714mm	28.12in	4mm	0.16in	10.00	590
m0755	i0030	755mm	29.72in	750mm	29.53in	4mm	0.16in	10.50	620
m0791	i0031	791mm	31.13in	786mm	30.93in	4mm	0.16in	11.00	649
m0826	i0033	826mm	32.54in	821mm	32.34in	4mm	0.16in	11.50	679
m0862	i0034	862mm	33.94in	857mm	33.75in	4mm	0.16in	12.00	708
m0898	i0035	898mm	35.35in	893mm	35.15in	4mm	0.16in	12.50	738
m0934	i0037	934mm	36.75in	929mm	36.56in	4mm	0.16in	13.00	767
m0969	i0038	969mm	38.16in	964mm	37.96in	4mm	0.16in	13.50	797
m1005	i0040	1005mm	39.57in	1000mm	39.37in	4mm	0.16in	14.00	826
m1041	i0041	1041mm	40.97in	1036mm	40.78in	4mm	0.16in	14.50	856
m1076	i0042	1076mm	42.38in	1071mm	42.18in	4mm	0.16in	15.00	885
m1112	i0044	1112mm	43.79in	1107mm	43.59in	4mm	0.16in	15.50	915
m1148	i0045	1148mm	45.19in	1143mm	44.99in	4mm	0.16in	16.00	944
m1184	i0047	1184mm	46.60in	1179mm	46.40in	4mm	0.16in	16.50	974
m1219	i0048	1219mm	48.00in	1214mm	47.81in	4mm	0.16in	17.00	1003
m1255	i0049	1255mm	49.41in	1250mm	49.21in	4mm	0.16in	17.50	1033
m1291	i0051	1291mm	50.82in	1286mm	50.62in	4mm	0.16in	18.00	1062
m1326	i0052	1326mm	52.22in	1321mm	52.02in	4mm	0.16in	18.50	1092
m1362	i0054	1362mm	53.63in	1357mm	53.43in	4mm	0.16in	19.00	1121
m1398	i0055	1398mm	55.03in	1393mm	54.84in	4mm	0.16in	19.50	1151
m1434	i0056	1434mm	56.44in	1429mm	56.24in	4mm	0.16in	20.00	1180
m1469	i0058	1469mm	57.85in	1464mm	57.65in	4mm	0.16in	20.50	1210
m1505	i0059	1505mm	59.25in	1500mm	59.06in	4mm	0.16in	21.00	1239
m1541	i0061	1541mm	60.66in	1536mm	60.46in	4mm	0.16in	21.50	1269
m1576	i0062	1576mm	62.06in	1571mm	61.87in	4mm	0.16in	22.00	1298

# TANA Nano 3 RS14

## Length Availability List

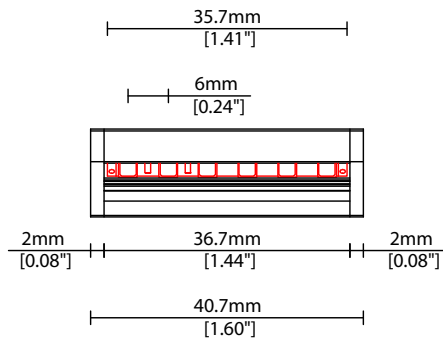


Length Code		Fixture Length <sup>1</sup>		LED Strip <sup>2</sup>		End Cap Dimension <sup>3</sup>		Wattage (W)	Output (lm)
Metric	Imperial(US)	Metric	Imperial(US)	Metric	Imperial(US)	Metric	Imperial(US)		3000K (Test Data)
m1612	i0063	1612mm	63.47in	1607mm	63.27in	4mm	0.16in	22.50	1328
m1648	i0065	1648mm	64.88in	1643mm	64.68in	4mm	0.16in	23.00	1357
m1684	i0066	1684mm	66.28in	1679mm	66.09in	4mm	0.16in	23.50	1387
m1719	i0068	1719mm	67.69in	1714mm	67.49in	4mm	0.16in	24.00	1416
m1755	i0069	1755mm	69.09in	1750mm	68.90in	4mm	0.16in	24.50	1446
m1791	i0071	1791mm	70.50in	1786mm	70.30in	4mm	0.16in	25.00	1475
m1826	i0072	1826mm	71.91in	1821mm	71.71in	4mm	0.16in	25.50	1505
m1862	i0073	1862mm	73.31in	1857mm	73.12in	4mm	0.16in	26.00	1534
m1898	i0075	1898mm	74.72in	1893mm	74.52in	4mm	0.16in	26.50	1564
m1934	i0076	1934mm	76.12in	1929mm	75.93in	4mm	0.16in	27.00	1593
m1969	i0078	1969mm	77.53in	1964mm	77.33in	4mm	0.16in	27.50	1623
m2005	i0079	2005mm	78.94in	2000mm	78.74in	4mm	0.16in	28.00	1652

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

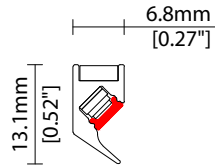
<sup>2</sup> Actual length of PCB strip

<sup>3</sup> Actual length of 2x end caps



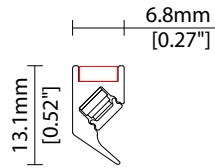
### COVER OPTIONS

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



**C** Diffused Cover  
Polycarbonate

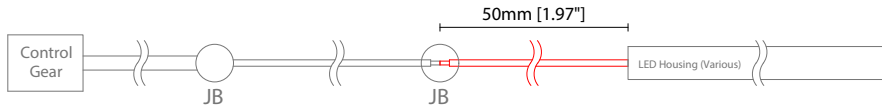
### FIXING OPTIONS



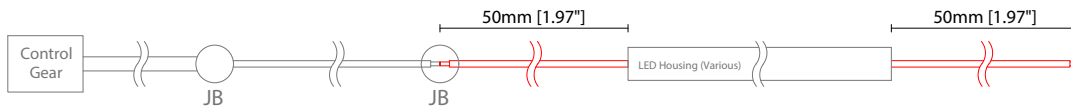
**MF** Magnet fixing

### POWER FEED OPTIONS

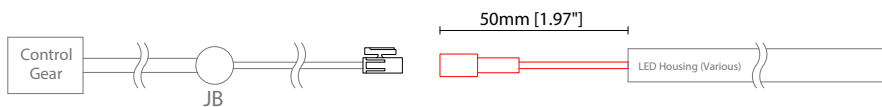
**0050 S00X 50mm (1.97\") Single tail**



**0050 D00X 50mm (1.97\") Double tail**

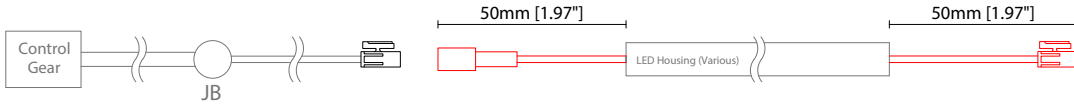


**0050 S20X 50mm (1.97\") Single IP20 connector**

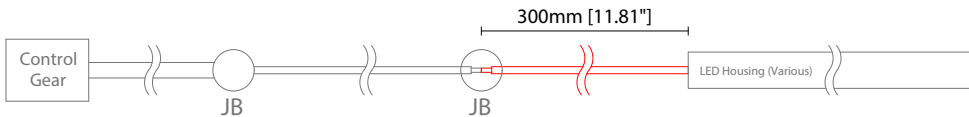


### POWER FEED OPTIONS (CONTINUED)

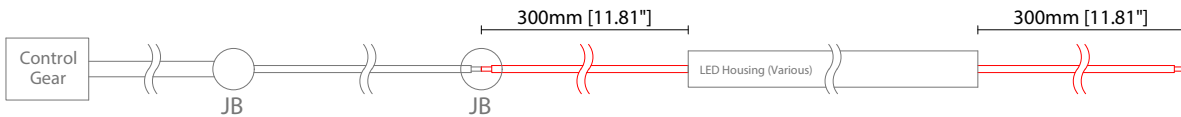
0050 D20X 50mm (1.97") Double IP20 connector



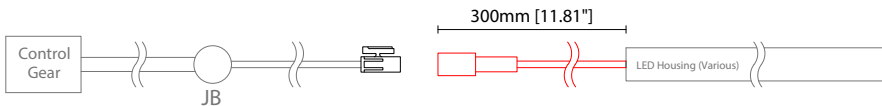
0300 S00X 300mm (11.81") Single tail



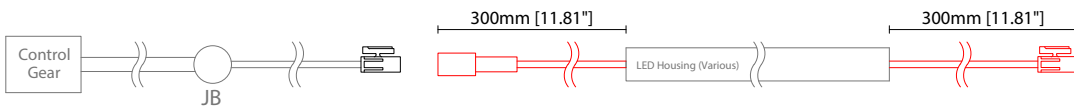
0300 D00X 300mm (11.81") Double tail



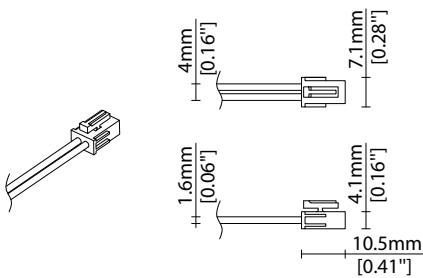
0300 S20X 300mm (11.81") Single IP20 connector



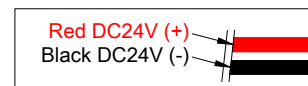
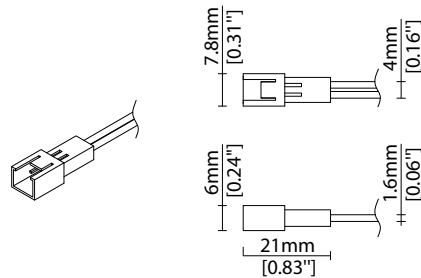
0300 D20X 300mm (11.81") Double IP20 connector



### 2 Pin Female Connector



### 2 Pin Male Connector



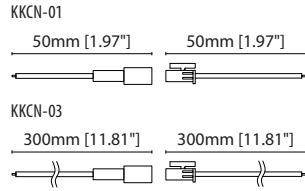
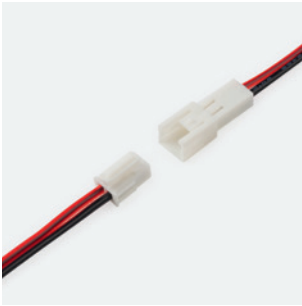
### Key

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

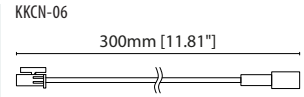


### POWER FEED

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



**KKCN-01** 50mm (1.97in) pair  
**KKCN-03** 300mm (11.81in) pair  
2 PIN male + female connector set



**KKCN-06**  
2 PIN 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

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

<sup>2</sup> 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

<sup>3</sup> Electrical shop drawing will include detailed information of PSU and relevant control drivers

<sup>4</sup> Cut sheets are available on the controls section of [www.kkdc.lighting](http://www.kkdc.lighting) or upon request