

Linear

TANA Nano 3 RS14

Fixture Guide

KKDC

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

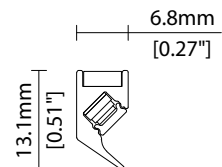


Key applications

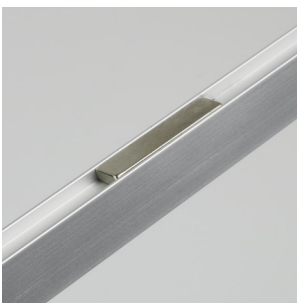
- ✓ Architectural detail
- ✓ Cabinet & furniture
- ✓ Direct lighting
- ✓ Display case
- ✓ Interior
- ✓ Retail display
- ✓ Shelving display

Key features

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



FIXING METHODS



Magnet fixing

Linear

TANA Nano 3 RS14

Specification sheet



| | |
|-----------------------|--|
| Dimensions | H13.1/W6.8/L76-2005mm (H0.52/W0.27/L2.99-78.94in) |
| PCB Cut-point | 35.7mm increment/2000mm max (1.41in increment/78.74in max) |
| LED Pitch | 6mm-168LED/m (0.24in - 51LED/ft) |
| Chip | s-line k-line |
| Cover/Optics | Diffused (90°) |
| 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 = 72.9°C) T _a = -13 to 122°F (T _c max = 163°F) |
| IP Rating | IP40 |
| Finish | Silver anodised |
| Mounting | Surface mounting via magnet |
| 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 | CCT range |

Base Grade

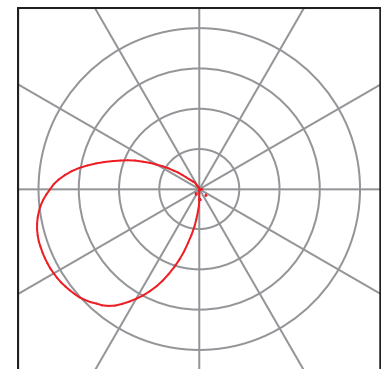
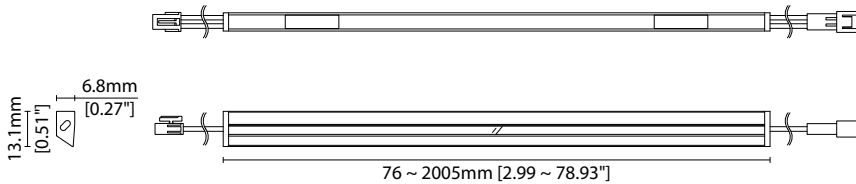
| | |
|------------------------|---|
| k k-line | 3-step commercial range Energy Star CCTs |
|------------------------|---|

| | | |
|--------------------------|-----------------------|-----------------------|
| Power consumption | Supply voltage | Supply current |
| 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 |
| k-line | 94 | 98 | 99 | 94 | 95 | 97 | 91 | 83 | 63 | 94 | 95 | 81 | 96 | 99 |

| Diffused | | CRI | R9 | Rf | Rg |
|---------------|------------------------------|-----|----|----|----|
| s-line | 876lm/m (267lm/ft) 63lm/w | 94 | 64 | - | - |
| k-line | 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.

TANA Nano 3 RS14

Code Table



FIXTURE

| Model | Finish | Cover ¹ | Grade ² | LED | Colour (CCT) | Length Availability ³ | IP | Cable Length | Power Feed ⁴ | Fixing ⁵ | 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 | g | | |
| | | | | | 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 | | | | | | | | | | | | |

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

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 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) |
| 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

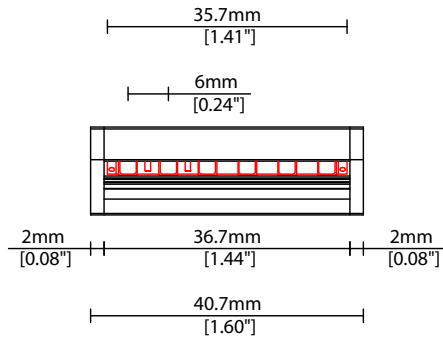


| Length Code | | Fixture Length ¹ | | LED Strip ² | | End Cap Dimension ³ | | Wattage (W) | Output (lm) |
|-------------|--------------|-----------------------------|--------------|------------------------|--------------|--------------------------------|--------------|-------------|----------------------|
| Metric | Imperial(US) | Metric | Imperial(US) | Metric | Imperial(US) | Metric | Imperial(US) | | 3000K (Test Data) |
| 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 |

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

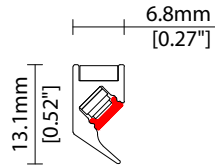
² Actual length of PCB strip

³ Actual length of 2x end caps



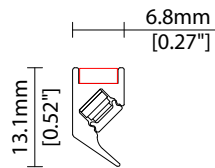
COVER OPTIONS

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



C Diffused Cover
Polycarbonate

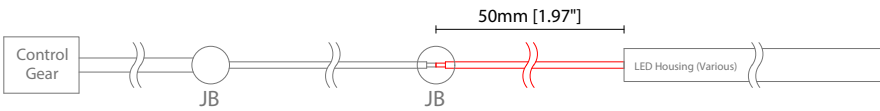
FIXING OPTIONS



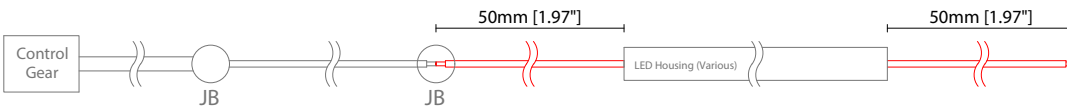
MF Magnet fixing

POWER FEED OPTIONS

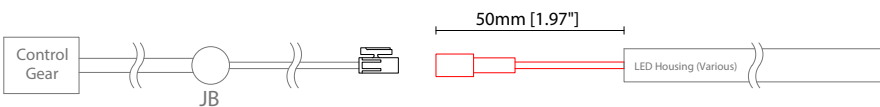
0050 S00X 50mm (1.97\") Single tail



0050 D00X 50mm (1.97\") Double tail

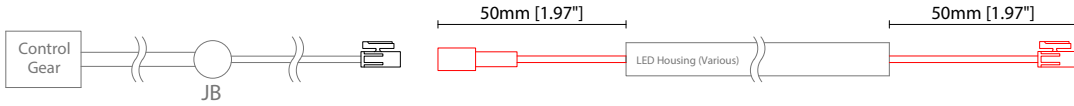


0050 S20X 50mm (1.97\") Single IP20 connector

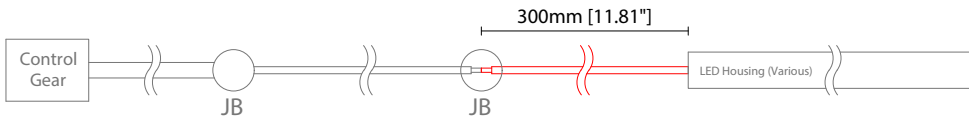


POWER FEED OPTIONS (CONTINUED)

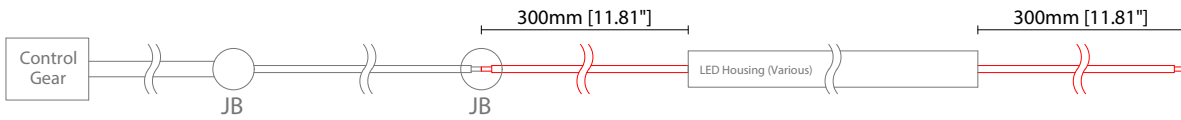
0050 D20X 50mm (1.97") Double IP20 connector



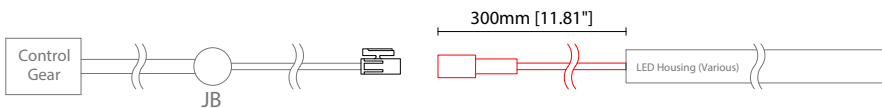
0300 S00X 300mm (11.81") Single tail



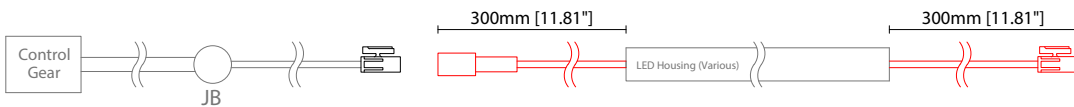
0300 D00X 300mm (11.81") Double tail



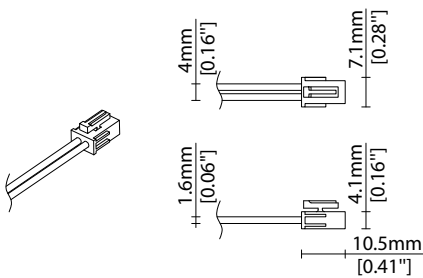
0300 S20X 300mm (11.81") Single IP20 connector



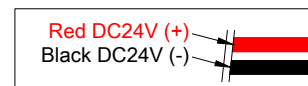
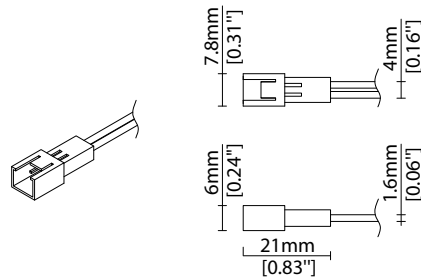
0300 D20X 300mm (11.81") Double IP20 connector



2 Pin Female Connector



2 Pin Male Connector

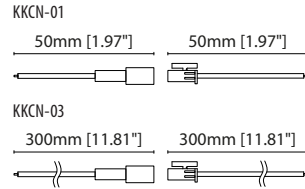
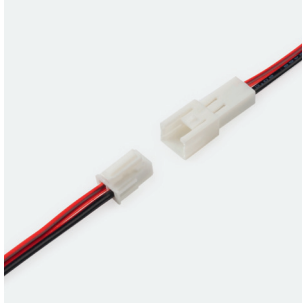


Key

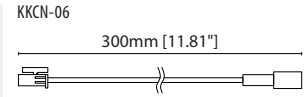
Control Gear Power supply, sub-controllers & control systems
 JB Junction box / cable connection

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 |

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