

Linear

KKSL 352 Fixture Guide

KKDÖ

Outdoor | Surface | Low output up to 410lm/m (124lm/ft)

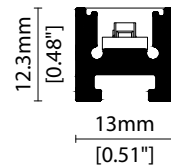


Key applications

- ✓ Architectural detail
- ✓ Bathrooms
- ✓ Cove lighting
- ✓ Exterior
- ✓ Indirect lighting
- ✓ Mirror back lighting
- ✓ Under bench

Key features

- ✓ Custom lengths
- ✓ Diffusion: Spotting
- ✓ Extensive CCT range
- ✓ Form factor: Small
- ✓ High lumen efficacy
- ✓ IP67
- ✓ Output low



MOUNTING METHODS



KKCP-02 Clip



KKBK-06 Fixed bracket



KKBK-05 Adjustable bracket

Linear

KKSL 352

Specification sheet



| | | |
|-----------------------|--|---|
| Dimension | H12.3/W13/L99.3-2016mm (H0.48/W0.51/L3.91-79.37in) | |
| PCB increment | 83.3mm increment/2000mm max (3.28in increment/78.74in max) | |
| LED pitch | 13.9mm - 72LED/m (0.55in - 22LED/ft) | |
| Chip | s/e-line | Toyoda Gosei |
| | k-line | Toyoda Gosei or Equivalent |
| Beam angle | 110° | |
| Colours | s/e/k-line | 2300K/3000K/3400K/4000K |
| | s-line | Single colours: Red/Green/Blue/Orange/Amber |
| Bin/Step | s-line | 2-step MacAdam ellipse |
| | e/k-line | 3-step MacAdam ellipse |
| CRI | ≥ 90 | |
| Lifetime | 50,000 hours @ 25°C (50,000 hours @ 77°F) | |
| Operating temp | T _a = -25 to 50°C (T _C max = 60°C) T _a = -13 to 122°F (T _C max = 140°F) | |
| IP rating | IP67 | |
| Finish | Silver anodised | |
| Cover/lens | Silicone potted | |
| Mounting | Surface mounting via clips or brackets | |
| Power feed | Sheathed hardwire tails or male/female connectors | |
| Control | 0-10V/1-10V/DMX/DALI | |



LED Grading Key

Exclusive Grade

- s** s-line*
2-step CCT range
- e** e-line*
3-step CCT range

*KKDC tuned CCT range

Base Grade

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

PERFORMANCE DATA @ 3000K

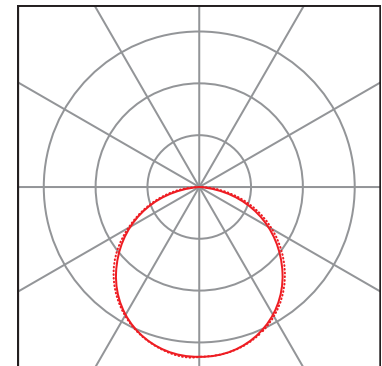
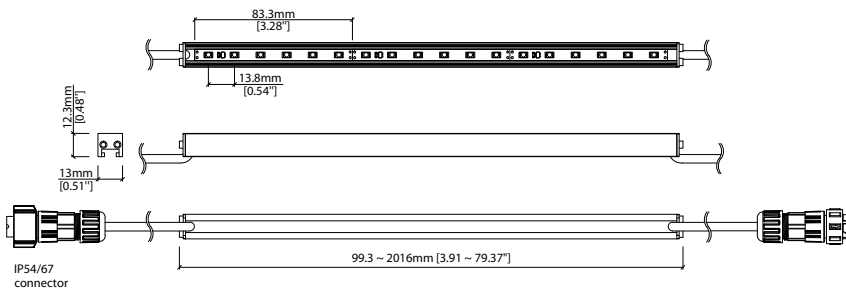
| Power consumption | Supply voltage | Supply current |
|-------------------|----------------|--------------------|
| 5.5W/m (1.67W/ft) | 24V DC | 0.23A/m (0.07A/ft) |

Colour Rendering Index (CRI)

| | R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 |
|--------|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|
| k-line | 94 | 97 | 98 | 93 | 93 | 96 | 92 | 83 | 60 | 93 | 94 | 82 | 95 | 99 |

Silicone potted

| | | | | CRI | R9 | Rf | Rg |
|----------|--------------------|----------|--|-----|----|----|----|
| s/e-line | 410lm/m (124lm/ft) | 73.4lm/W | | 93 | 62 | - | - |
| k-line | 400lm/m (122lm/ft) | 72.3lm/W | | 92 | 60 | - | - |



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

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

FIXTURE

| Model | Finish | Cover | Grade ¹ | LED | Colour (CCT) ² | Length Availability ³ | IP | Cable Length | Power Feed ⁴ | Input |
|---------|--------------------|------------|--------------------|-----|---------------------------|---|---------|-------------------|--|----------|
| KKSL SL | Silver Anodised SA | No cover X | s s e e k k | 352 | 2300K (2100K PCB) 23 | m 99.3-2016mm 83.3mm increments | IP67 67 | 300mm/11.81" 0300 | Single ø4.3mm sheath tail S00A | DC 24V g |
| | | | | | 3000K (2500K PCB) 30 | i 3.91-79.37in 3.28in increments | | | Double ø4.3mm sheath tail D00A | |
| | | | | | 3400K (2700K PCB) 34 | (Specify length code OR total run length) | | | Single ø4.3mm sheath IP67 connector S67A | |
| | | | | | 4000K (3000K PCB) 40 | | | | Double ø4.3mm sheath IP67 connector D67A | |
| | | | | | RED RED s only | | | | | |
| | | | | | GREEN GRN | | | | | |
| | | | | | BLUE BLU | | | | | |
| | | | | | ORANGE ORN | | | | | |
| | | | | | AMBER AMB | | | | | |

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

² Actual colour temperature after colour shift caused by silicone potting

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

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

Code Example:

| | | | | | | | | | | | | | | | | | | | | | | |
|------|---|-----------------|---|----------|---|---|---|-----|---|-------------------|---|---------|---|------|---|--------------|---|-------------------------------------|---|--------|---|---|
| SL | - | SA | - | X | - | s | - | 352 | - | 40 | - | m | - | 516 | - | 67 | - | c | - | D67A | - | g |
| KKSL | | Silver Anodised | | No cover | | s | | 352 | | 4000K (3000K PCB) | | 515.8mm | | IP67 | | 300mm/11.81" | | Double ø4.3mm sheath IP67 connector | | DC 24V | | |

ACCESSORIES

Mounting Accessories

| | |
|---------|--------------------|
| KKCP-02 | Clip (1no.) |
| KKCP-52 | Clip (500no.) |
| KKBK-06 | Fixed bracket |
| KKBK-05 | Adjustable bracket |

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

Connection Accessories

| | |
|--------------|--|
| CN67-2P-0300 | IP67 2 PIN male & female 300mm/11.81" pair |
| CN67-2P-1000 | IP67 2 PIN male & female 1000mm/39.37" pair |
| CN67-2P-3000 | IP67 2 PIN male & female 3000mm/118.11" pair |

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

Exterior Junction Boxes

| | |
|----------|-----------------------------------|
| KKJB-07 | IP67 Slim J-Box |
| KKJB-07R | Potting Resin for IP67 Slim J-Box |

* Refer to **Exterior Junction Boxes** 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

LED ENGINE VARIANTS (LED STRIP TYPE)

| Colour | Output | LED | Lumen/m | Lumen/ft | W/m | W/ft | Spec Doc | Length | Increment |
|------------|--------|-----|--|--|------|------|----------|----------------------------|-----------------|
| Single CCT | Low | 352 | 410 | 124 | 5.5 | 1.67 | KKSL 352 | 99.3-2016mm (3.91-79.37in) | 83.3mm (3.28in) |
| | Mid | 504 | 950 | 290 | 12.5 | 3.81 | KKSL 504 | 116-2016mm (4.57-79.37in) | 100mm (3.94in) |
| | High | 508 | 1310 | 399 | 17.5 | 5.33 | KKSL 508 | 87.4-2016mm (3.44-79.37in) | 71.4mm (2.81in) |
| RGB | | 501 | Red 113 Green 224 Blue 40 RGB 353 | Red 34 Green 68 Blue 12 RGB 108 | 15.6 | 4.75 | KKSL RGB | 99.3-2016mm (3.91-79.37in) | 83.3mm (3.28in) |

* Performance data: s/e-line, silicone potted, 3000K

KKSL 352

Length Availability List

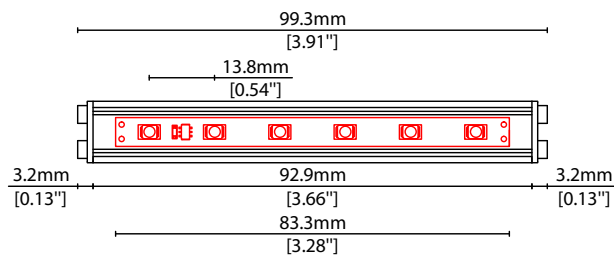


| Length Code | | Fixture Length ¹ | | LED Strip ² | | End Cap Dimension ³ | | Wattage (W) | Output (lm) | |
|-------------|--------------|-----------------------------|--------------|------------------------|--------------|--------------------------------|--------------|-------------|-------------------|------------|
| Metric | Imperial(US) | Metric | Imperial(US) | Metric | Imperial(US) | Metric | Imperial(US) | | 3000K (Test Data) | Range Data |
| m0099 | i0004 | 99mm | 3.91in | 83mm | 3.28in | 2.4mm | 0.09in | 0.46 | 33 | 21-34 |
| m0183 | i0007 | 183mm | 7.19in | 167mm | 6.56in | 2.4mm | 0.09in | 0.92 | 66 | 42-69 |
| m0266 | i0010 | 266mm | 10.47in | 250mm | 9.84in | 2.4mm | 0.09in | 1.37 | 99 | 62-103 |
| m0349 | i0014 | 349mm | 13.75in | 333mm | 13.12in | 2.4mm | 0.09in | 1.83 | 133 | 83-138 |
| m0433 | i0017 | 433mm | 17.04in | 417mm | 16.41in | 2.4mm | 0.09in | 2.29 | 166 | 104-172 |
| m0516 | i0020 | 516mm | 20.32in | 500mm | 19.69in | 2.4mm | 0.09in | 2.75 | 199 | 125-207 |
| m0599 | i0024 | 599mm | 23.60in | 583mm | 22.97in | 2.4mm | 0.09in | 3.21 | 232 | 145-241 |
| m0683 | i0027 | 683mm | 26.88in | 667mm | 26.25in | 2.4mm | 0.09in | 3.67 | 265 | 166-276 |
| m0766 | i0030 | 766mm | 30.16in | 750mm | 29.53in | 2.4mm | 0.09in | 4.12 | 298 | 187-310 |
| m0849 | i0033 | 849mm | 33.44in | 833mm | 32.81in | 2.4mm | 0.09in | 4.58 | 331 | 208-345 |
| m0933 | i0037 | 933mm | 36.72in | 917mm | 36.09in | 2.4mm | 0.09in | 5.04 | 365 | 228-379 |
| m1016 | i0040 | 1016mm | 40.00in | 1000mm | 39.37in | 2.4mm | 0.09in | 5.50 | 398 | 249-414 |
| m1099 | i0043 | 1099mm | 43.28in | 1083mm | 42.65in | 2.4mm | 0.09in | 5.96 | 431 | 270-448 |
| m1183 | i0047 | 1183mm | 46.57in | 1167mm | 45.94in | 2.4mm | 0.09in | 6.42 | 464 | 291-482 |
| m1266 | i0050 | 1266mm | 49.85in | 1250mm | 49.22in | 2.4mm | 0.09in | 6.87 | 497 | 311-517 |
| m1349 | i0053 | 1349mm | 53.13in | 1333mm | 52.50in | 2.4mm | 0.09in | 7.33 | 530 | 332-551 |
| m1433 | i0056 | 1433mm | 56.41in | 1417mm | 55.78in | 2.4mm | 0.09in | 7.79 | 563 | 353-586 |
| m1516 | i0060 | 1516mm | 59.69in | 1500mm | 59.06in | 2.4mm | 0.09in | 8.25 | 596 | 374-620 |
| m1599 | i0063 | 1599mm | 62.97in | 1583mm | 62.34in | 2.4mm | 0.09in | 8.71 | 630 | 394-655 |
| m1683 | i0066 | 1683mm | 66.25in | 1667mm | 65.62in | 2.4mm | 0.09in | 9.17 | 663 | 415-689 |
| m1766 | i0070 | 1766mm | 69.53in | 1750mm | 68.90in | 2.4mm | 0.09in | 9.62 | 696 | 436-724 |
| m1849 | i0073 | 1849mm | 72.81in | 1833mm | 72.18in | 2.4mm | 0.09in | 10.08 | 729 | 457-758 |
| m1933 | i0076 | 1933mm | 76.10in | 1917mm | 75.47in | 2.4mm | 0.09in | 10.54 | 762 | 477-793 |
| m2016 | i0079 | 2016mm | 79.38in | 2000mm | 78.75in | 2.4mm | 0.09in | 11.00 | 795 | 498-827 |

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

² Actual length of PCB strip

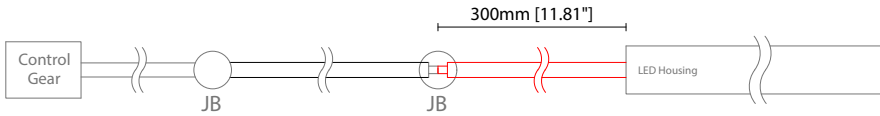
³ Actual length of 2x end caps



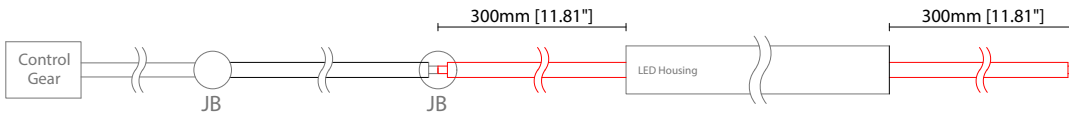
POWER FEED OPTIONS

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

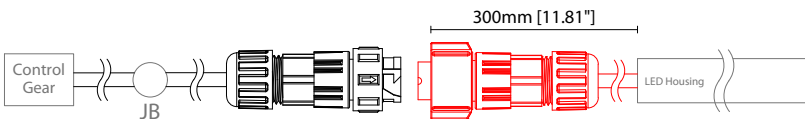
0300 S00A 300mm (11.81") Single ø4.3mm sheath tail



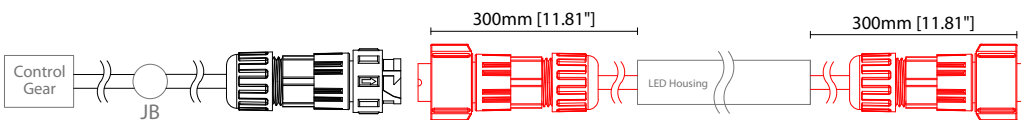
0300 D00A 300mm (11.81") Double ø4.3mm sheath tail



0300 S67A 300mm (11.81") Single ø4.3mm sheath IP67 connector

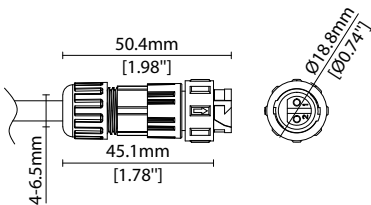


0300 D67A 300mm (11.81") Double ø4.3mm sheath IP67 connector

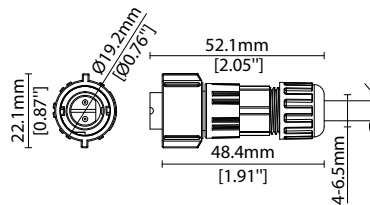


IP67 2 Pin Connector

Female connector
2 PIN (IP67)



Male connector
2 PIN (IP67)



Key

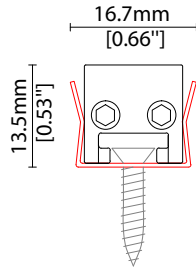
- Control Gear Power supply, sub-controllers & control systems
- JB Junction box / cable connection

MOUNTING ACCESSORIES

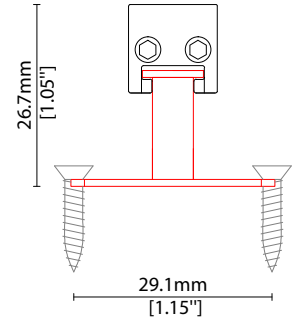
Note: Accessories are to be ordered separately with corresponding code shown below.



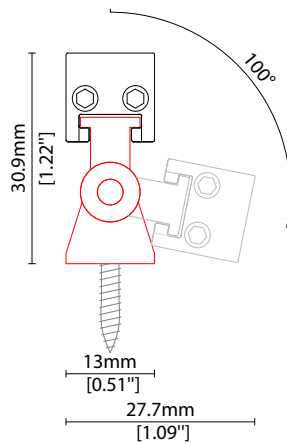
KKCP-02 (1no.)
KKCP-52 (500no.)
Clip (allow 3 per metre/40in)
S/Steel finish
L25/W16.7/H13.5mm
(L0.98/W0.66/H0.53")



KKBK-06
Fixed bracket (allow 3 per metre/40in)
S/Steel finish
L20/W29.1/H26.7mm
(0.79/W1.15/H1.05")



KKBK-05
Adjustable bracket
(allow 2 per metre/40in)
S/Steel finish
L36.5/W13/H30.9mm
(L1.44/W0.51/H1.22")



POWER FEED



CN67-2P-0300 300mm (11.81in) pair
CN67-2P-1000 1000mm (39.37in) pair
CN67-2P-3000 3000mm (118.11in) pair
IP67
2 PIN male + female connector set

EXTERIOR JUNCTION BOXES



KKJB-07

IP67 Slim J-Box
(including type A,B,C,D bushings)



KKJB-07R

Potting resin for IP67 Slim J-Box

KKDC CONTROL



KKDM-06 1-10V

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

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



KKSC-05 DMX

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

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



KKDL-02 DALI

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

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



KKDL-03 DALI

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

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

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