

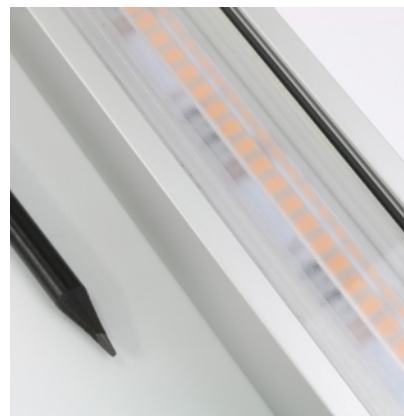
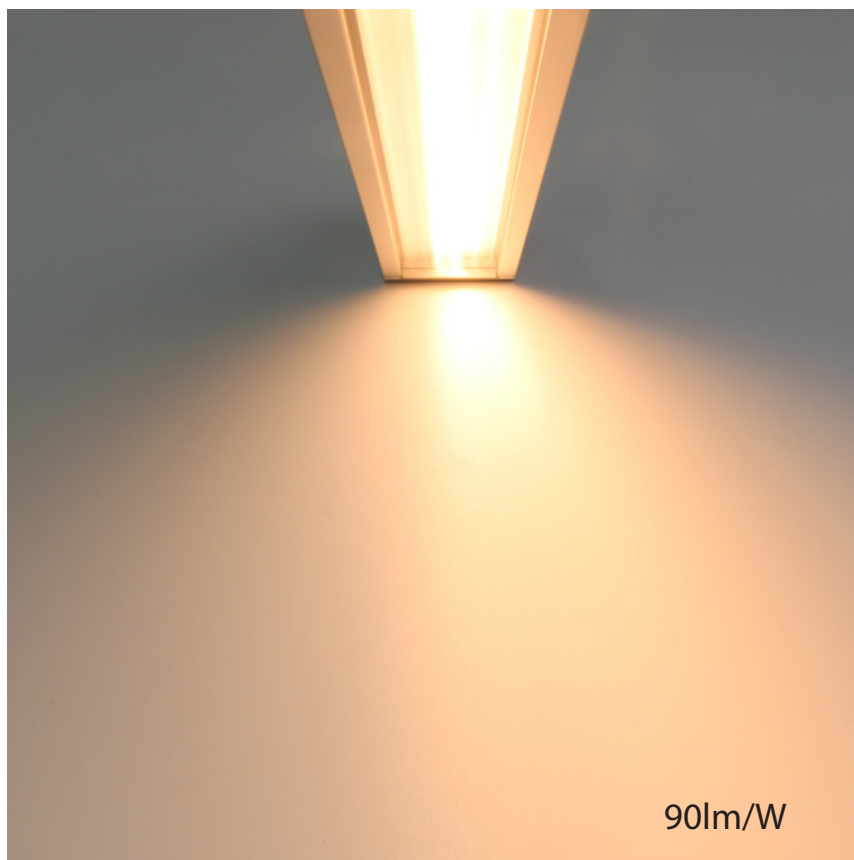
Linear

# SEN Asymmetric A040 (40W)

## Fixture Guide

# KKDÖ

Exterior | Surface | Output up to 3600lm/m (1097lm/ft)

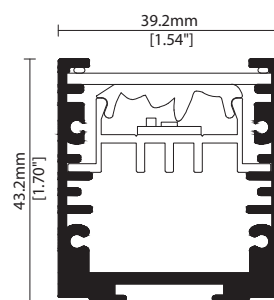


### Key applications

- ✓ Architectural detail
- ✓ Building facades
- ✓ Ceiling
- ✓ Direct lighting
- ✓ Downlighting
- ✓ Exterior
- ✓ Public spaces
- ✓ Uplighting
- ✓ Wall grazing
- ✓ Wall mounting
- ✓ Wallwashing
- ✓ Window reveal
- ✓ Wet area

### Key features

- ✓ A-line (High Efficacy)
- ✓ Adjustable
- ✓ Asymmetric lens
- ✓ Custom lengths
- ✓ Constant Voltage (CV)
- ✓ Diffusion: homogenous
- ✓ Direct view
- ✓ High lumen efficacy
- ✓ IP54 moisture resistant
- ✓ IP67 waterproof
- ✓ Lens options



### MOUNTING METHODS



KKCP-12 Lock clip



KKBK-02 Fixed bracket



KKBK-09 Mounting plate



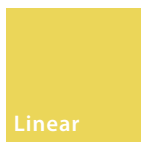
KKBK-16 Small adjustable bracket



KKBK-17 Large adjustable bracket



KKBK-23 Low adjustable bracket



# SEN Asymmetric A040 (40W)

## Specification sheet



|                |                                                                                                                          |
|----------------|--------------------------------------------------------------------------------------------------------------------------|
| Dimensions     | H43.2/W39.2/L97-1020mm (H1.04/W0.98/L3.82-59.84in)                                                                       |
| PCB Cut-point  | 38.46mm increment/1000mm max (1.51in increment/39.37in max)                                                              |
| LED Pitch      | 4.8mm - 208LED/m (0.19in - 64LED/ft)                                                                                     |
| Chip           | A-line                                                                                                                   |
| Cover/Optics   | Clear + KKLN-A1 Asymmetric Lens (Beam tilt 25°, Beam angle 50°)                                                          |
| CCT            | A-line: 2700K/3000K/3500K/4000K                                                                                          |
| LED binning    | A-line: 3-step MacAdam ellipse                                                                                           |
| CRI            | 94                                                                                                                       |
| Lifetime       | 50,000 hours @ 25°C (50,000 hours @ 77°F)                                                                                |
| Operating temp | T <sub>a</sub> = -20 to 50°C (T <sub>C</sub> max = 75.6°C)<br>T <sub>a</sub> = -13 to 122°F (T <sub>C</sub> max = 168°F) |
| IP Rating      | IP54/67                                                                                                                  |
| Finish         | Silver anodised                                                                                                          |
| Mounting       | Surface mounting via brackets                                                                                            |
| Power feed     | Sheathed hardwire tails or male/female connectors                                                                        |
| Control        | 0-10V/1-10V/DMX/DALI                                                                                                     |



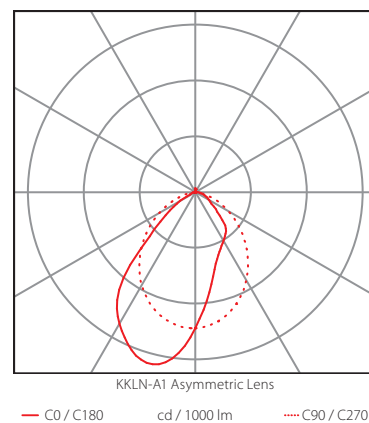
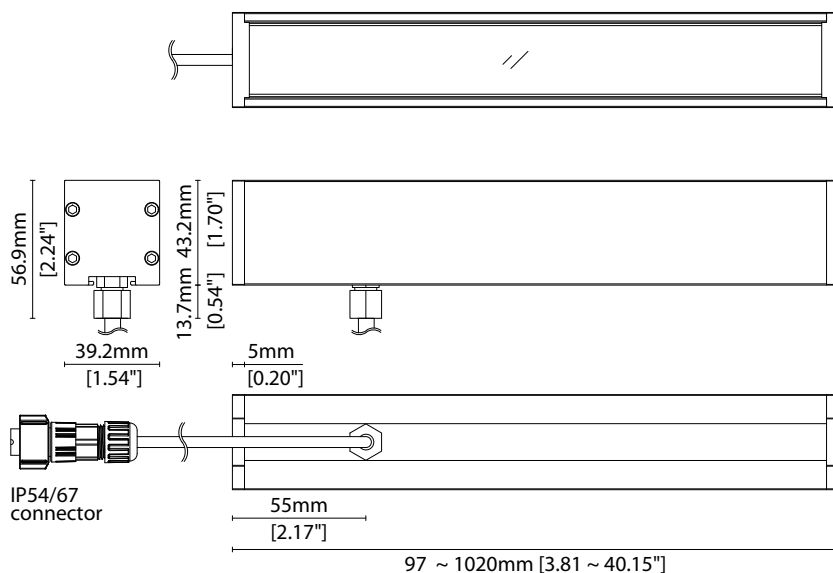
### LED Grading Key

|                                 |                       |
|---------------------------------|-----------------------|
| <b>Exclusive Grade</b>          | *KKDC tuned CCT range |
| <b>A-line*</b>                  |                       |
| 3-step CCT range                |                       |
| KKDC highest lumen efficacy LED |                       |

| Power consumption | Supply voltage | Supply current     |
|-------------------|----------------|--------------------|
| 40W/m (12.19W/ft) | 24V DC         | 1.67A/m (0.51A/ft) |

### Performance Data (3000K)

|        | R1                             | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 |    |    |
|--------|--------------------------------|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|----|----|
| A-line | 95                             | 96 | 95 | 94 | 94 | 94 | 95 | 88 | 72 | 89  | 94  | 77  | 95  | 97  |    |    |
|        | Clear + KKLN-A1                |    |    |    |    |    |    |    |    |     |     |     | CRI | R9  | Rf | Rg |
| A-line | 3600lm/m (1097lm/ft)<br>90lm/W |    |    |    |    |    |    |    |    |     |     |     | 94  | 72  | -  | -  |



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

Linear

# SEN Asymmetric A040 (40W)

## Code Table

# KKDC

### FIXTURE

| Model             | Finish                    | Cover/<br>Lens                                   | Grade <sup>1</sup> | LED  | Colour<br>(CCT) | Length Availability <sup>2</sup> | IP                  | Cable<br>Length            | Power Feed <sup>3</sup>                        | Cable<br>exit               | Baffle<br>option                                           | Input          |
|-------------------|---------------------------|--------------------------------------------------|--------------------|------|-----------------|----------------------------------|---------------------|----------------------------|------------------------------------------------|-----------------------------|------------------------------------------------------------|----------------|
| SEN<br>Asymmetric | SNA<br>Silver<br>Anodised | SA<br>Clear +<br>KKLN-A1<br>(Asymmetric<br>lens) | A-<br>A            | A040 | 2700K           | 27 m                             | IP54 54<br>IP67* 67 | 300mm<br>(11.81in)<br>0300 | Single ø6.3mm<br>sheath tail                   | RC<br>Rear<br>Cable<br>Exit | SX8<br>SEN Asymmetric<br>no baffle                         | g<br>DC<br>24V |
|                   |                           |                                                  |                    |      | 3000K           | 30                               |                     |                            |                                                |                             |                                                            |                |
|                   |                           |                                                  |                    |      | 3500K           | 35 i                             |                     |                            | Double ø6.3mm<br>sheath tail                   |                             |                                                            |                |
|                   |                           |                                                  |                    |      | 4000K           | 40                               |                     |                            | Single ø6.3mm<br>sheath IP67<br>Male connector |                             |                                                            |                |
|                   |                           |                                                  |                    |      |                 |                                  |                     |                            | Double ø6.3mm<br>sheath IP67<br>connector      | SC<br>Side<br>Cable<br>Exit | SLB<br>SEN Asymmetric<br>large baffle (Silver<br>anodised) |                |
|                   |                           |                                                  |                    |      |                 |                                  |                     |                            |                                                |                             | SSB<br>SEN Asymmetric<br>small baffle (Silver<br>anodised) |                |

<sup>1</sup> Refer to **LED Grading Key** on **Specification sheet** page<sup>2</sup> Refer to **Length Availability List** or enter total run length instead of length code<sup>3</sup> Refer to **Power Feed Options** on **Options** pages<sup>4</sup> Due to the clear, flush potted polyurethane top layer on IP67 SEN Asymmetric a colour shift of +/- 20K should be expected

### Code Example:

| SNA               | - | SA                 | - | BA1                          | - | A                                                                                   | - | A040 | - | 30    | - | m     | - | 520  | - | 67                 | - | 0300                                   | - | D67B               | - | RC                                               | - | SLB    | - | g |
|-------------------|---|--------------------|---|------------------------------|---|-------------------------------------------------------------------------------------|---|------|---|-------|---|-------|---|------|---|--------------------|---|----------------------------------------|---|--------------------|---|--------------------------------------------------|---|--------|---|---|
| SEN<br>Asymmetric |   | Silver<br>Anodised |   | KKLN-A1<br>(Asymmetric lens) |   |  |   | A040 |   | 3000K |   | 520mm |   | IP67 |   | 300mm<br>(11.81in) |   | Double Ø6.3mm sheath<br>IP67 connector |   | Rear cable<br>exit |   | SEN Asymmetric large Baffle<br>(Silver anodised) |   | DC 24V |   |   |

### ACCESSORIES

#### Mounting Accessories

|         |                          |
|---------|--------------------------|
| KKCP-12 | Lock Clip                |
| KKBK-02 | Fixed bracket            |
| KKBK-09 | Mounting plate           |
| KKBK-16 | Small adjustable bracket |
| KKBK-17 | Large adjustable bracket |
| KKBK-23 | Low 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

# SEN Asymmetric A040 (40W)

## Length Availability List

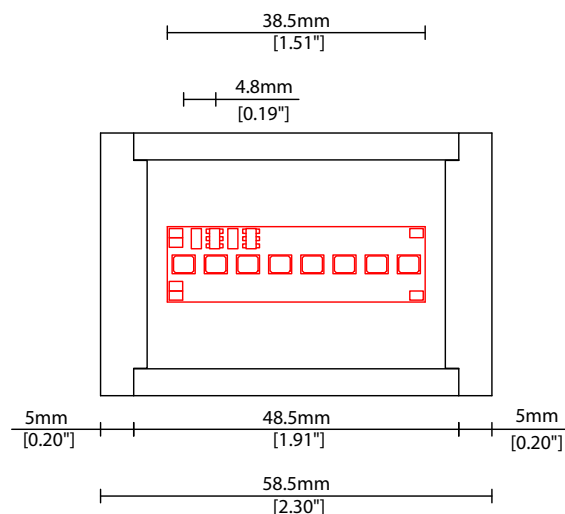


| Length Code |              | Fixture Length <sup>1</sup> |              | LED Strip <sup>2</sup> |              | End Cap Dimension <sup>3</sup> |              | Wattage (W) | Output (lm)          |
|-------------|--------------|-----------------------------|--------------|------------------------|--------------|--------------------------------|--------------|-------------|----------------------|
| Metric      | Imperial(US) | Metric                      | Imperial(US) | Metric                 | Imperial(US) | Metric                         | Imperial(US) |             | 3000K<br>(Test Data) |
| m0097       | i0004        | 97mm                        | 3.82in       | 77mm                   | 3.03in       | 10mm                           | 0.39in       | 3.08        | 280                  |
| m0135       | i0005        | 135mm                       | 5.33in       | 115mm                  | 4.54in       | 10mm                           | 0.39in       | 4.62        | 420                  |
| m0174       | i0007        | 174mm                       | 6.84in       | 154mm                  | 6.06in       | 10mm                           | 0.39in       | 6.15        | 560                  |
| m0212       | i0008        | 212mm                       | 8.36in       | 192mm                  | 7.57in       | 10mm                           | 0.39in       | 7.69        | 700                  |
| m0251       | i0010        | 251mm                       | 9.87in       | 231mm                  | 9.09in       | 10mm                           | 0.39in       | 9.23        | 840                  |
| m0289       | i0011        | 289mm                       | 11.39in      | 269mm                  | 10.60in      | 10mm                           | 0.39in       | 10.77       | 980                  |
| m0328       | i0013        | 328mm                       | 12.90in      | 308mm                  | 12.11in      | 10mm                           | 0.39in       | 12.31       | 1120                 |
| m0366       | i0014        | 366mm                       | 14.42in      | 346mm                  | 13.63in      | 10mm                           | 0.39in       | 13.85       | 1260                 |
| m0405       | i0016        | 405mm                       | 15.93in      | 385mm                  | 15.14in      | 10mm                           | 0.39in       | 15.38       | 1400                 |
| m0543       | i0017        | 443mm                       | 17.44in      | 423mm                  | 16.66in      | 10mm                           | 0.39in       | 16.92       | 1540                 |
| m0482       | i0019        | 482mm                       | 18.96in      | 462mm                  | 18.17in      | 10mm                           | 0.39in       | 18.46       | 1680                 |
| m0520       | i0020        | 520mm                       | 20.47in      | 500mm                  | 19.69in      | 10mm                           | 0.39in       | 20.00       | 1820                 |
| m0558       | i0022        | 558mm                       | 21.99in      | 538mm                  | 21.20in      | 10mm                           | 0.39in       | 21.54       | 1960                 |
| m0597       | i0024        | 597mm                       | 23.50in      | 577mm                  | 22.71in      | 10mm                           | 0.39in       | 23.08       | 2100                 |
| m0635       | i0025        | 635mm                       | 25.02in      | 615mm                  | 24.23in      | 10mm                           | 0.39in       | 24.61       | 2240                 |
| m0674       | i0027        | 674mm                       | 26.53in      | 654mm                  | 25.74in      | 10mm                           | 0.39in       | 26.15       | 2380                 |
| m0712       | i0028        | 712mm                       | 28.04in      | 692mm                  | 27.26in      | 10mm                           | 0.39in       | 27.69       | 2520                 |
| m0751       | i0030        | 751mm                       | 29.56in      | 731mm                  | 28.77in      | 10mm                           | 0.39in       | 29.23       | 2660                 |
| m0789       | i0031        | 789mm                       | 31.07in      | 769mm                  | 30.28in      | 10mm                           | 0.39in       | 30.77       | 2800                 |
| m0828       | i0033        | 828mm                       | 32.59in      | 808mm                  | 31.80in      | 10mm                           | 0.39in       | 32.31       | 2940                 |
| m0866       | i0034        | 866mm                       | 34.10in      | 846mm                  | 33.31in      | 10mm                           | 0.39in       | 33.84       | 3079                 |
| m0905       | i0036        | 905mm                       | 35.61in      | 885mm                  | 34.83in      | 10mm                           | 0.39in       | 35.38       | 3220                 |
| m0943       | i0037        | 943mm                       | 37.13in      | 923mm                  | 36.34in      | 10mm                           | 0.39in       | 36.92       | 3360                 |
| m0982       | i0039        | 982mm                       | 38.64in      | 962mm                  | 37.86in      | 10mm                           | 0.39in       | 38.46       | 3500                 |
| m1020       | i0040        | 1020mm                      | 40.16in      | 1000mm                 | 39.37in      | 10mm                           | 0.39in       | 40.00       | 3640                 |

<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



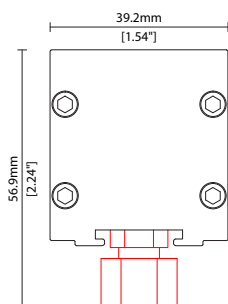
Linear

# SEN Asymmetric A040 (40W)

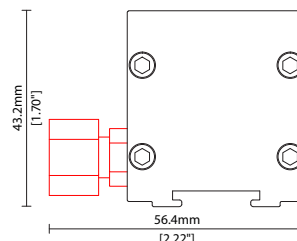
## Options

# KKDC

### CABLE EXIT OPTIONS



RC Rear cable exit



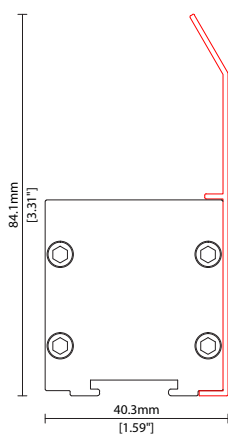
SC Side cable exit

### BAFFLE OPTIONS



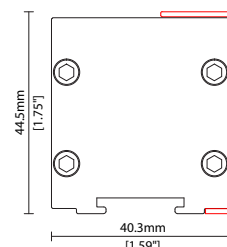
SLB

SEN Asymmetric large  
Baffle (Silver anodised)



SSB

SEN Asymmetric small  
Baffle (Silver anodised)



#### Key

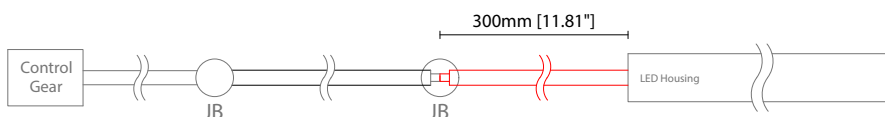
|              |                                                 |
|--------------|-------------------------------------------------|
| Control Gear | Power supply, sub-controllers & control systems |
| JB           | Junction box / cable connection                 |

# SEN Asymmetric A040 (40W)

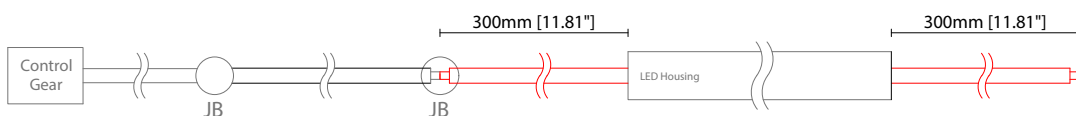
## Options

### POWER FEED OPTIONS

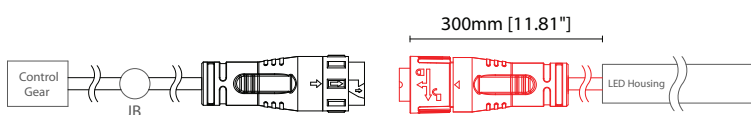
0300 S00B 300mm (11.81") Single Ø6.3mm sheath tail



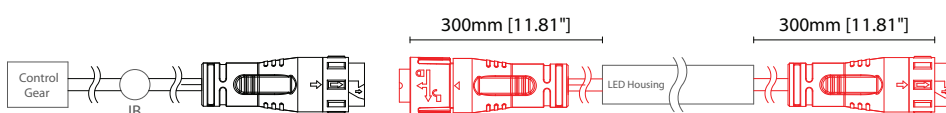
0300 D00B 300mm (11.81") Double Ø6.3mm sheath tail



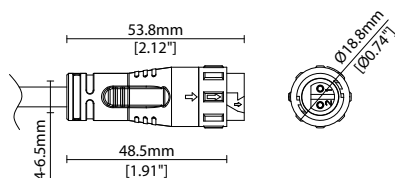
0300 S67B 300mm (11.81") Single Ø6.3mm sheath connector IP67 (Premoulded)



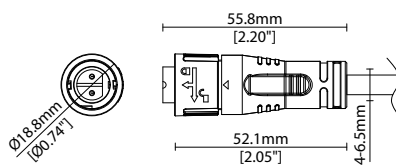
0300 D67B 300mm (11.81") Double Ø6.3mm sheath connector IP67 (Premoulded)



### 2 Pin Female Connector IP67



### 2 Pin Male Connector IP67



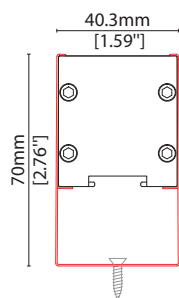
### MOUNTING ACCESSORIES

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



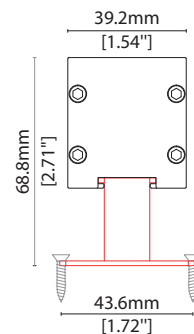
**KKCP-12**

Lock clip (allow 2 per metre/40in)  
S/Steel finish



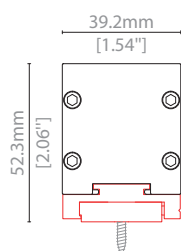
**KKBK-02**

Fixed bracket (allow 2 per metre/40in)  
S/Steel finish



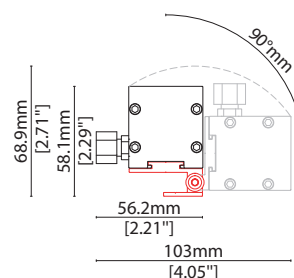
**KKBK-09**

Mounting plate  
(allow 2 per metre/40in)  
Silver anodised aluminium finish



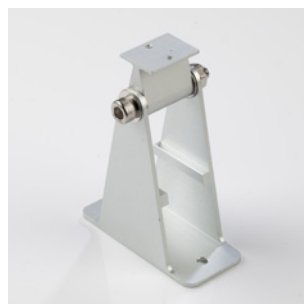
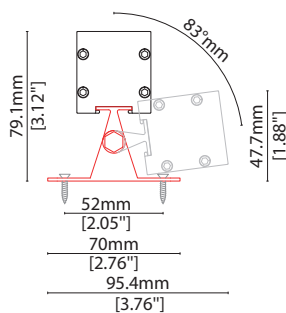
**KKBK-23**

Low adjustable bracket  
(allow 2 per metre/40in)  
Silver anodised aluminium finish



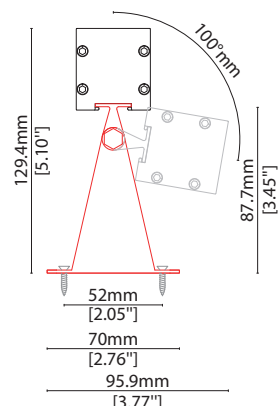
**KKBK-16**

Small adjustable bracket  
(allow 2 per metre/40in)  
Silver anodised aluminium finish



**KKBK-17**

Large adjustable bracket  
(allow 2 per metre/40in)  
Silver anodised aluminium finish



Linear

# SEN Asymmetric A040 (40W)

## Accessories

# KKDÖ

### 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)



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

#### KKDL-04 DALI-2

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



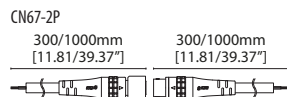
Linear

# SEN Asymmetric A040 (40W)

## Accessories

# KKDC

### POWER FEED



CN67-2P-0300 300mm (11.81in) pair  
CN67-2P-1000 1000mm (39.37in) pair

IP67

2 PIN male + female connector set



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

# SEN Asymmetric A040 (40W)

## 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-02/03/04/visDIM PRO 30 | 90-295V          | 24V               | 2.5A                 | 60W         | 100-0.1 | IP67/IP20                     |
|                | HLG-60H-24       | KKDL-02/03/04/visDIM PRO 30 | 90-305V          | 24V               | 2.5A                 | 60W         | 100-0.1 | IP67/IP20                     |
|                | HLG-100H-24      | KKDL-02/03/04/visDIM PRO 30 | 90-305V          | 24V               | 4.0A                 | 100W        | 100-0.1 | IP67/IP20                     |
|                | HLG-150H-24      | KKDL-02/03/04/visDIM PRO 30 | 90-305V          | 24V               | 6.3A                 | 150W        | 100-0.1 | IP67/IP20                     |
|                | HLG-240H-24      | KKDL-02/03/04/visDIM PRO 30 | 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