

Linear

# TANA Micro R207 Fixture Guide

# KKDÖ

Indoor | Surface | Dynamic output up to 1374lm/m (419lm/ft)

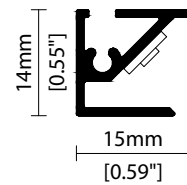


## Key applications

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

## Key features

- ✓ Custom lengths
- ✓ Constant Voltage (CV)
- ✓ Diffusion: spotting
- ✓ Extensive CCT range
- ✓ IP20 dry area
- ✓ LEDmix dynamic white



## MOUNTING METHODS



TMEC-02 End cap bracket (pair)



High strength self-adhesive 3M tape

## Warm dim (Dynamic white)

Output Luminance %

min DIM1 Input Level max

— CH1 (Warmer)  
— CH2 (Cooler)

**LEDmix R207**

CCT Selection 1      CCT Selection 2

**LEDmix R209**

CCT Selection 1      CCT Selection 2

LEDmix **warm dim** (Dynamic white) is a pre-programmed dimming curve setting enabling two different colour temperatures (CCTs) to blend harmoniously to achieve a warming lighting effect when dimmed.

KKDC LEDmix strips allow two separate CCT selections to be specified within the same PCB strip.

Use the table opposite to help determine which 2 CCT selections you require according to your preferred cool to warm dimming range.

*\*Note: The blended CCT is approx. 'cool-end' result at 100% brightness based on using the KKDC LED CCT specification.*

CCT Selection 1	CCT Selection 2	
	Blended CCT*	PCB CCT
1900K~	2000K 2100K 2200K 2300K 2500K 2600K 2700K 3000K 3500K	2100K PCB 2300K PCB 2500K PCB 2700K PCB 3000K PCB 3200K PCB 3500K PCB 4000K PCB 5000K PCB
2100K~	2200K 2300K 2400K 2600K 2700K 2800K 3000K 3600K	2300K PCB 2500K PCB 2700K PCB 3000K PCB 3200K PCB 3500K PCB 4000K PCB 5000K PCB
2300K~	2400K 2500K 2700K 2800K 2900K 3100K 3700K	2500K PCB 2700K PCB 3000K PCB 3200K PCB 3500K PCB 4000K PCB 5000K PCB
2500K~	2600K 2800K 2800K 3000K 3200K 3800K	2700K PCB 3000K PCB 3200K PCB 3500K PCB 4000K PCB 5000K PCB
2700K~	2900K 3000K 3100K 3400K 3900K	3000K PCB 3200K PCB 3500K PCB 4000K PCB 5000K PCB
3000K~	3100K 3300K 3500K 4000K	3200K PCB 3500K PCB 4000K PCB 5000K PCB
3200K~	3300K 3600K 4100K	3500K PCB 4000K PCB 5000K PCB
3500K~	3700K 4300K	4000K PCB 5000K PCB
4000K~	5100K	5000K PCB

## Tuneable white

Channel Mix Ratio %

min DIM1 Input Level max

— CH1 (Warmer)  
— CH2 (Cooler)

**LEDmix R207**

CCT Selection 1 CCT Selection 2

**LEDmix R209**

CCT Selection 1 CCT Selection 2

LEDmix **tunable white** enables two different LED colour temperatures (CCTs) to be specified within the same LEDmix strip.

Each CCT selection can then be independently controlled (via your dimming control system) to adjust the warm & cool light output (CCT selections) and thus tailor a blended light colour of your choosing.

CCT Selection 1	CCT Selection 2
1900K~	2100K 2300K 2500K 2700K 3000K 3200K 3500K 4000K 5000K
2100K~	2300K 2500K 2700K 3000K 3200K 3500K 4000K 5000K
2300K~	2500K 2700K 3000K 3200K 3500K 4000K 5000K
2500K~	2700K 3000K 3200K 3500K 4000K 5000K
2700K~	3000K 3200K 3500K 4000K 5000K
3000K~	3200K 3500K 4000K 5000K
3200K~	3500K 4000K 5000K
3500K~	4000K 5000K
4000K~	5000K

Linear

# TANA Micro R207

## Specification sheet



<b>Dimensions</b>	H14/W15/L93.3-2010mm (H0.55/W0.59/L3.67-79.13in)
<b>PCB Cut-point</b>	83.3mm increment/2000mm max (3.28in increment/78.74in max)
<b>LED Pitch</b>	13.9mm-144LED/m (0.55in - 44LED/ft)
<b>Chip</b>	<b>s-line</b> <b>k-line</b>
<b>Cover/Optics</b>	No cover (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> 2.5-step MacAdam ellipse <b>k-line:</b> 3-step MacAdam ellipse
<b>CRI</b>	≥95
<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 = 80°C) T <sub>a</sub> = -13 to 140°F (T <sub>c</sub> max = 176°F)
<b>IP Rating</b>	IP20
<b>Finish</b>	Silver anodised
<b>Mounting</b>	Surface mounting via 3M tape or screw mount end caps
<b>Power feed</b>	Hardwire tails
<b>Control</b>	0-10V/1-10V/DMX/DALI



### LED Grading Key

#### Exclusive Grade

<b>s</b> s-line*	*KKDC tuned CCT range
2-step CCT range	

#### Base Grade

<b>k</b> k-line	3-step commercial range
	Energy Star CCTs

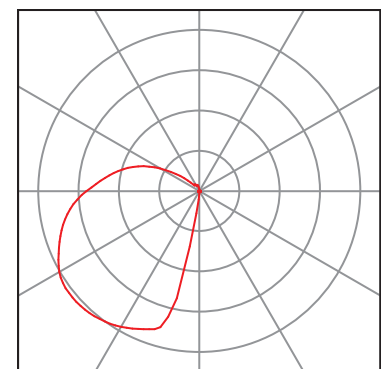
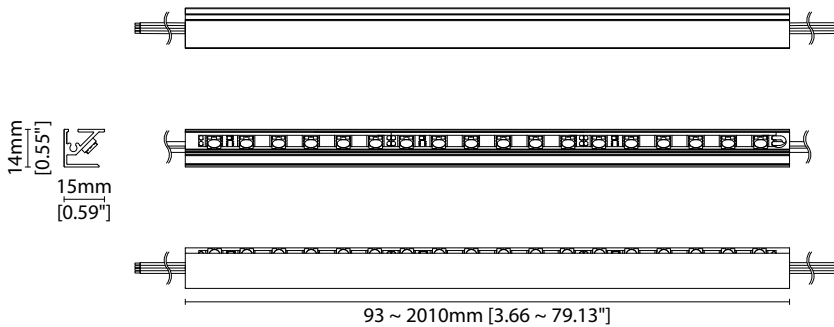
<b>Power consumption</b>	<b>Supply voltage</b>	<b>Supply current</b>
16W/m (4.88W/ft)	24V DC	0.67A/m (0.20A/ft)

### Performance Data (2100K+5000K)

	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
<b>k-line</b>	96	96	97	97	97	92	93	94	91	94	96	78	96	99

#### No Cover

												<b>CRI</b>	<b>R9</b>	<b>Rf</b>	<b>Rg</b>
<b>s-line</b>	1374lm/m (419lm/ft)											96	92	-	-
	85.9lm/W														
<b>k-line</b>	1296lm/m (395lm/ft)											95	91	-	-
	81lm/W														






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

# TANA Micro R207

## 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>	Input										
TANA Micro	TM	Silver Anodised	SA	No cover	X	  <sup>5</sup> s  <sup>5</sup> k	R207	R207	1900K	19	m	93-2010mm 83.3mm increments <sup>6</sup>	IP20	20	1000mm/ 39.37"	1000	Single no sheath tail	S00X	DC 24V	g
											i	3.67-79.13in 3.28in increments <sup>6</sup>			3000mm/ 118.11"	3000	Double no sheath tail	D00X		
												(Specify length code OR total run length)								

<sup>1</sup> Refer to **Cover/Lens options** on **Options** page

<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> LEDmix requires two colour temperature choices

<sup>6</sup> When using adjustable end cap bracket, max length is limited to 1000mm

### Code Example:

TM	-	SA	-	X	-	s	-	R207	-	2150	-	m	510	-	20	-	3000	-	D00X	-	g
TANA Micro		Silver Anodised		No cover				R207		2100K+5000K		510mm		IP20			3000mm/118.11"		Double no sheath tail		DC 24V

### ACCESSORIES

#### Mounting Accessories

TMEC-02	End cap bracket pair
TMEC-01	End cap pair

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

#### Connection Accessories

KKCN-18	4 PIN LEDmix male & female 50mm (1.97in) pair
KKCN-19	4 PIN LEDmix male & female 300mm (11.81in) pair
KKCN-24	4 PIN LEDmix 300mm (11.81in) extension lead

\* Refer to **Power feed** 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	LED	Lumen/m	Lumen/ft	W/m	W/ft	Spec Doc	Length	Increment
Single CCT	R007	646	197	7	2.13	TANA Micro R007	93-2010mm (3.66-79.13in)	41.7mm (1.64in)
	R014	1350	412	14	4.27	TANA Micro R014	93-2010mm (3.66-79.13in)	41.7mm (1.64in)
	R020	1802	549	20	6.10	TANA Micro R020	93-2010mm (3.66-79.13in)	41.7mm (1.64in)
Warm Dim/Dynamic White	R207	1374	419	16	4.88	TANA Micro R207	93-2010mm (3.66-79.13in)	83.3mm (3.28in)

\* Performance data: s-line, no cover, 2100K + 5000K

# TANA Micro R207

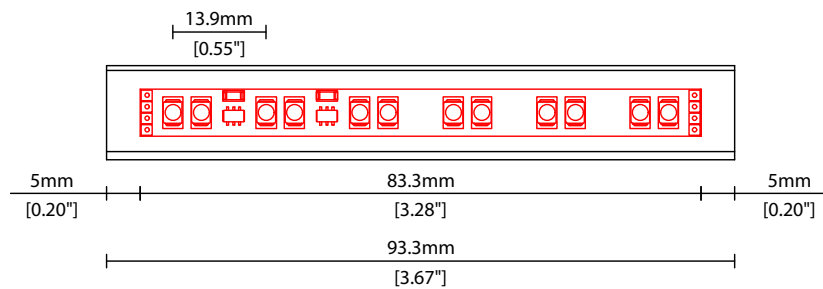
## Length Availability List



Length Code		Fixture Length <sup>1</sup>		LED Strip <sup>2</sup>		End Cap Dimension		Wattage (W)	Output (lm)
Metric	Imperial(US)	Metric	Imperial(US)	Metric	Imperial(US)	Metric	Imperial(US)		3000K (Test Data)
m0093	i0004	93mm	3.67in	83mm	3.28in	N/A	N/A	1.33	108
m0177	i0007	177mm	6.96in	167mm	6.56in	N/A	N/A	2.67	216
m0260	i0011	260mm	10.24in	250mm	9.84in	N/A	N/A	4.00	324
m0343	i0014	343mm	13.52in	333mm	13.12in	N/A	N/A	5.33	432
m0427	i0017	427mm	16.80in	417mm	16.40in	N/A	N/A	6.67	540
m0510	i0020	510mm	20.08in	500mm	19.69in	N/A	N/A	8.00	648
m0593	i0024	593mm	23.36in	583mm	22.97in	N/A	N/A	9.33	756
m0677	i0027	677mm	26.64in	667mm	26.25in	N/A	N/A	10.67	864
m0760	i0030	760mm	29.92in	750mm	29.53in	N/A	N/A	12.00	972
m0843	i0033	843mm	33.20in	833mm	32.81in	N/A	N/A	13.33	1080
m0927	i0037	927mm	36.48in	917mm	36.09in	N/A	N/A	14.67	1188
m1010	i0040	1010mm	39.76in	1000mm	39.37in	N/A	N/A	16.00	1296
m1093	i0043	1093mm	43.04in	1083mm	42.65in	N/A	N/A	17.33	1404
m1177	i0047	1177mm	46.33in	1167mm	45.93in	N/A	N/A	18.67	1512
m1260	i0050	1260mm	49.61in	1250mm	49.21in	N/A	N/A	20.00	1620
m1343	i0053	1343mm	52.89in	1333mm	52.49in	N/A	N/A	21.33	1728
m1427	i0056	1427mm	56.17in	1417mm	55.77in	N/A	N/A	22.67	1836
m1510	i0060	1510mm	59.45in	1500mm	59.06in	N/A	N/A	24.00	1944
m1593	i0063	1593mm	62.73in	1583mm	62.34in	N/A	N/A	25.33	2052
m1677	i0066	1677mm	66.01in	1667mm	65.62in	N/A	N/A	26.67	2160
m1760	i0070	1760mm	69.29in	1750mm	68.90in	N/A	N/A	28.00	2268
m1843	i0073	1843mm	72.57in	1833mm	72.18in	N/A	N/A	29.33	2376
m1927	i0076	1927mm	75.85in	1917mm	75.46in	N/A	N/A	30.67	2484
m2010	i0079	2010mm	79.13in	2000mm	78.74in	N/A	N/A	32.00	2592

<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





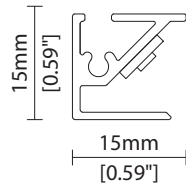
# TANA Micro R207

## Options



### COVER/LENS OPTIONS

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



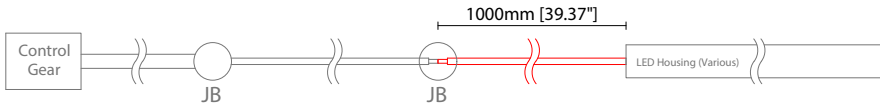
X No cover

W15/H15mm (W0.59/H0.59")

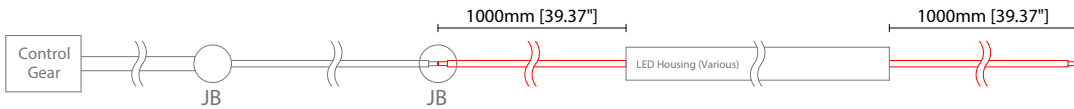
### POWER FEED OPTIONS

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

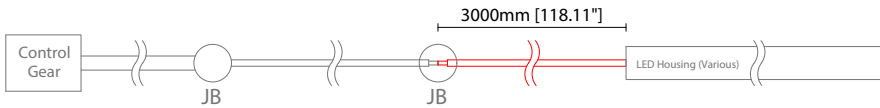
#### 1000 S00X 1000mm (39.37") Single no sheath tail



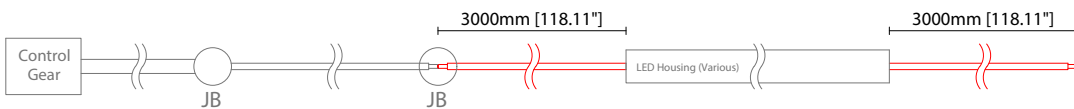
#### 1000 D00X 1000mm (39.37") Double no sheath tail



#### 3000 S00X 3000mm (118.11") Single no sheath tail



#### 3000 D00X 3000mm (118.11") Double no sheath tail



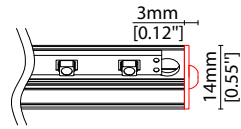
### Key

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



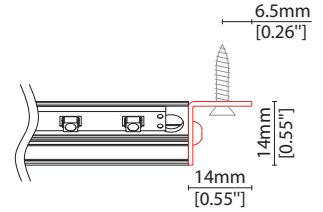
## MOUNTING ACCESSORIES

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



**TMEC-01**

3M Tape and end cap pair  
L3/W15/H14mm  
(L0.12/W0.59/H0.55")

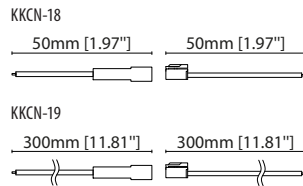
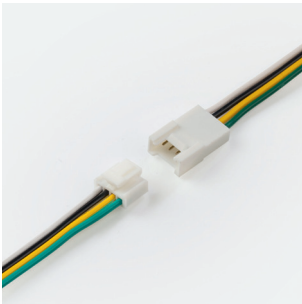


**TMEC-02 \***

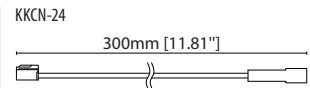
End cap bracket pair  
(Includes screws)  
S/Steel finish  
L14.5/W14/H14mm  
(L0.57/W0.55/H0.55")

\* Not recommended for use on lengths over 1000mm (40in)

## POWER FEED



**KKCNC-18** 50mm (1.97in) pair  
**KKCNC-19** 300mm (11.81in) pair  
4 PIN LEDmix male + female connector set



**KKCNC-24**

4 PIN LEDmix 300mm (11.81in) extension lead

Linear

# TANA Micro R207 Accessories

# KKDC

## 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