

Linear

TIMI-C R207

Fixture Guide

KKDÖ



Indoor | Surface | Dynamic output up to 1459lm/m (445m/ft)

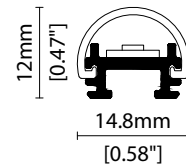


Key applications

- ✓ Architectural detail
- ✓ Backlighting & signage
- ✓ Cabinet & furniture
- ✓ Cove lighting
- ✓ Display case
- ✓ Hand rail
- ✓ Indirect lighting
- ✓ Interior
- ✓ Mirror back lighting
- ✓ Retail display
- ✓ Shelving display
- ✓ Special effect

Key features

- ✓ Adjustable
- ✓ Custom lengths
- ✓ Cuttable (IP20)
- ✓ Constant Voltage (CV)
- ✓ Diffusion: spotting
- ✓ Extensive CCT range
- ✓ IP20 dry area
- ✓ Light on time (10 day delivery)
- ✓ LEDmix dynamic white



MOUNTING METHODS



TCFC-01 Clear plastic clip



TCMS-01 Magnetic fixing set

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

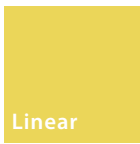
LEDmix R209

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



TIMI-C R207

Specification sheet



Dimensions	H12.1/W14.8/L83-2000mm (H0.48/W0.58/L3.26-78.74in)
PCB Cut-point	83.3mm increment/2000mm max (3.28in increment/78.74in max)
LED Pitch	13.9mm-144LED/m (0.55in - 44LED/ft)
Chip	s-line k-line
Cover/Optics	Clear (110°) / Diffused (125°)
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: 2.5-step MacAdam ellipse k-line: 3-step MacAdam ellipse
CRI	≥93
Lifetime	50,000 hours @ 25°C (50,000 hours @ 77°F)
Operating temp	T _a = -25 to 50°C (T _c max = 68°C) T _a = -13 to 122°F (T _c max = 154°F)
IP Rating	IP20
Finish	Silver anodised
Mounting	Surface mounting via clips or magnets
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	

Base Grade

k k-line	3-step commercial range Energy Star CCTs
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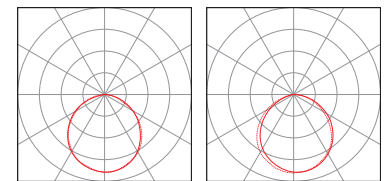
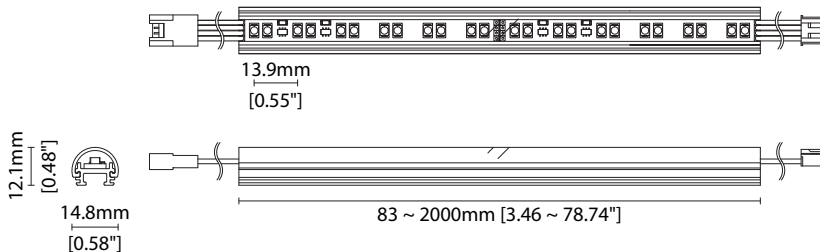
Power consumption	Supply voltage	Supply current
16W/m (4.88W/ft)	24V DC	0.67A/m (0.20A/ft)

Performance Data (2100K+5000K)

	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
k-line	96	95	97	97	96	92	93	94	91	93	96	77	96	99

	Clear Cover	Diffused Cover	CRI	R9	Rf	Rg
s-line	1459lm/m (445m/ft) 92lm/w	1255lm/m (383m/ft) 78lm/w	93	55	-	-
k-line	1376lm/m (419m/ft) 86lm/w	1184lm/m (361m/ft) 74lm/w	92	54	-	-

Male/Female connector



Clear Cover Diffused Cover
— 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/Lens ¹	Grade ²	LED	Colour (CCT)	Length Availability ³	IP	Cable Length	Power Feed ⁴	Input												
TIMI-C	TC	Silver Anodised	SA	Clear	B		R207	R207	1900K	19	m	83-2000mm 41.7mm increments	IP20	20	50mm (1.97in)	0050	Single no sheath tail	S00X	DC 24V	g		
																					Diffused	C
				2300K	23	Single no sheath IP20 connector	S20X															
								2500K	25	Double no sheath IP20 connector	D20X											
												2700K	27									
								3000K	30													
				3500K	35																	
						4000K	40															
5000K	50																					

¹ Refer to **Cover/Lens 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 LEDmix requires two colour temperature choices

Code Example:

TC	-	SA	-	C	-	s	-	R207	-	2150	-	m	500	-	20	-	0050	-	D20X	-	g
TIMI-C		Silver Anodised		Diffused				R207		2100K+5000K		500mm		IP20		50mm (1.97in)		Double no sheath IP20 connector		DC 24V	

ACCESSORIES

Mounting Accessories

TCFC-01	Clip
TCMS-01	Magnetic Fixing Set

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

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

* 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	697	213	7	2.13	TIMI-C R007	83-2000mm (3.26-78.74in)	41.7mm (1.64in)
	A010	1330	405	10	3.05	TIMI-C A010	77-2000mm (3.03-78.74in)	38.46mm (1.51in)
	R014	1410	430	14	4.27	TIMI-C R014	83-2000mm (3.26-78.74in)	41.7mm (0.27in)
	R020	1844	562	20	6.10	TIMI-C R020	83-2000mm (3.26-78.74in)	41.7mm (0.27in)
	A020	2660	810	20	6.10	TIMI-C A020	77-2000mm (3.03-78.74in)	38.46mm (1.51in)
Warm Dim/Dynamic White	R207	1459	44	16	4.88	TIMI-C R207	83-2000mm (3.26-78.74in)	83.3mm (0.55in)

* Performance data: s-line, clear cover, 2100K + 5000K

TIMI-C R207

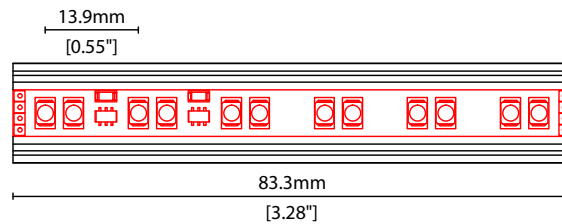
Length Availability List



Length Code		Fixture Length ¹		LED Strip ²		End Cap Dimension		Wattage (W)	Output (lm)
Metric	Imperial(US)	Metric	Imperial(US)	Metric	Imperial(US)	Metric	Imperial(US)		3000K (Test Data)
m0083	i0003	83mm	3.28in	83mm	3.28in	N/A	N/A	1.67	145
m0167	i0007	167mm	6.56in	167mm	6.56in	N/A	N/A	3.33	290
m0250	i0010	250mm	9.84in	250mm	9.84in	N/A	N/A	5.00	435
m0333	i0013	333mm	13.12in	333mm	13.12in	N/A	N/A	6.67	580
m0417	i0016	417mm	16.40in	417mm	16.40in	N/A	N/A	8.33	725
m0500	i0020	500mm	19.69in	500mm	19.69in	N/A	N/A	10.00	870
m0583	i0023	583mm	22.97in	583mm	22.97in	N/A	N/A	11.67	1015
m0667	i0026	667mm	26.25in	667mm	26.25in	N/A	N/A	13.33	1160
m0750	i0030	750mm	29.53in	750mm	29.53in	N/A	N/A	15.00	1305
m0833	i0033	833mm	32.81in	833mm	32.81in	N/A	N/A	16.67	1450
m0917	i0036	917mm	36.09in	917mm	36.09in	N/A	N/A	18.33	1595
m1000	i0039	1000mm	39.37in	1000mm	39.37in	N/A	N/A	20.00	1740
m1083	i0043	1083mm	42.65in	1083mm	42.65in	N/A	N/A	21.67	1885
m1167	i0046	1167mm	45.93in	1167mm	45.93in	N/A	N/A	23.33	2030
m1250	i0049	1250mm	49.21in	1250mm	49.21in	N/A	N/A	25.00	2175
m1333	i0052	1333mm	52.49in	1333mm	52.49in	N/A	N/A	26.67	2320
m1417	i0056	1417mm	55.77in	1417mm	55.77in	N/A	N/A	28.33	2465
m1500	i0059	1500mm	59.06in	1500mm	59.06in	N/A	N/A	30.00	2610
m1583	i0062	1583mm	62.34in	1583mm	62.34in	N/A	N/A	31.67	2755
m1667	i0066	1667mm	65.62in	1667mm	65.62in	N/A	N/A	33.33	2900
m1750	i0069	1750mm	68.90in	1750mm	68.90in	N/A	N/A	35.00	3045
m1833	i0072	1833mm	72.18in	1833mm	72.18in	N/A	N/A	36.67	3190
m1917	i0075	1917mm	75.46in	1917mm	75.46in	N/A	N/A	20.00	1740
m2000	i0079	2000mm	78.74in	2000mm	78.74in	N/A	N/A	40.00	3480

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

² Actual length of PCB strip



Linear

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Options

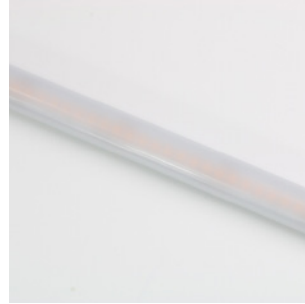
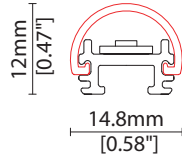
KKDC

COVER OPTIONS

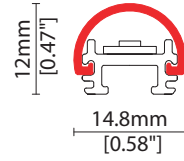
* Options are an integral part of the fixture ordering codes. Please refer to **Code Table** pages.



B Clear cover
W14.8/H12mm (W0.58/H0.47")

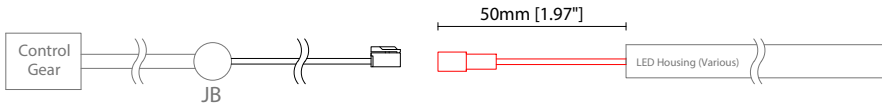


C Diffused cover
Polycarbonate finish
W14.8/H12mm (W0.58/H0.47")

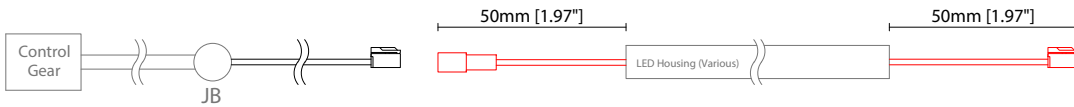


POWER FEED OPTIONS

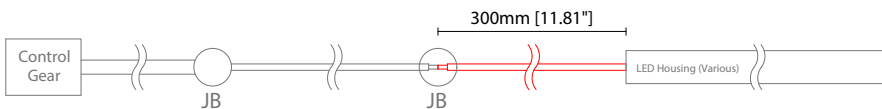
0050 S20X 50mm (1.97") Single no sheath IP20 connector



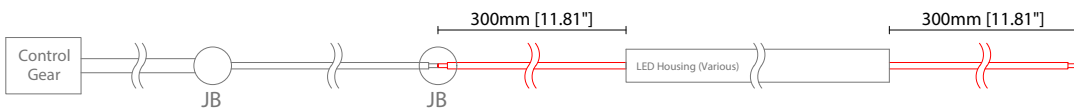
0050 D20X 50mm (1.97") Double no sheath IP20 connector



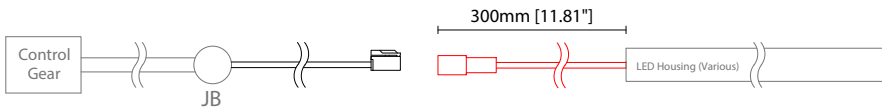
0300 S00X 300mm (11.81") Single no sheath tail



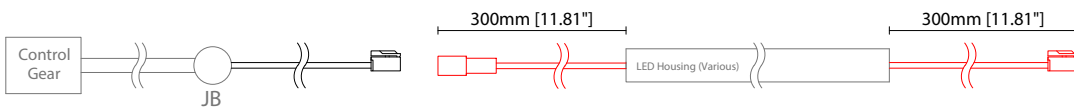
0300 D00X 300mm (11.81") Double no sheath tail



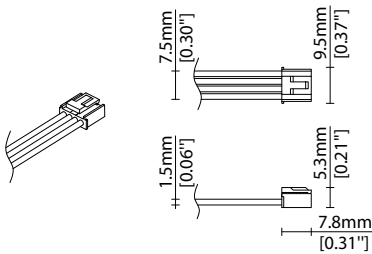
0300 S20X 300mm (11.81") Single no sheath IP20 connector



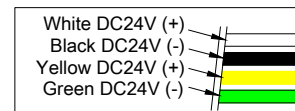
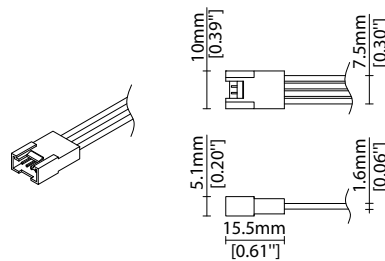
0300 D20X 300mm (11.81") Double no sheath IP20 connector



4 Pin LEDmix Female Connector



4 Pin LEDmix Male Connector



Key

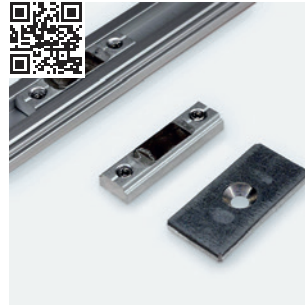
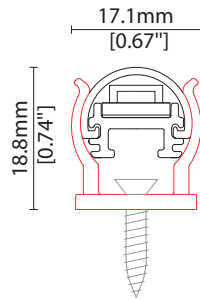
Control Gear Power supply, sub-controllers & control systems
 JB Junction box / cable connection

MOUNTING ACCESSORIES

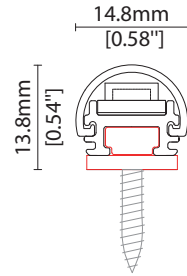
Note: Accessories are to be ordered separately with corresponding code shown below.



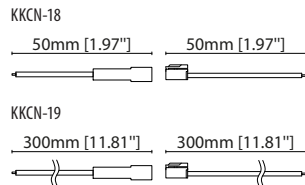
TCFC-01
 Clip (allow 4 per Metre/39.4in)
 Clear plastic finish
 L20/W17.1/H18.8mm
 (0.79/W0.67/H0.74")



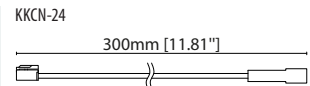
TCMS-01
 Magnet fixing set
 (allow 4 per Metre/39.4in)
 Aluminium/Steel finish
 L30/W14.8/H13.8mm
 (L1.18/W0.58/H0.54")



POWER FEED



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



KKCN-24
 4 PIN LEDmix 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)

Linear

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Accessories

KKDC

KKDC CONTROL (CONTINUED)



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