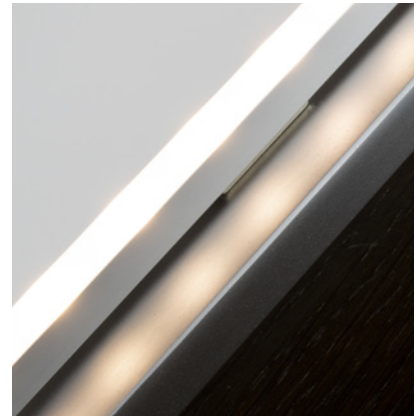


Linear

TiMi-M 504 Fixture Guide

KKDÖ

Indoor | Surface | Mid output up to 1240lm/m (378lm/ft)

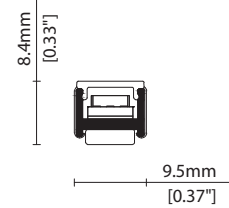


Key applications

- ✓ Architectural detail
- ✓ Backlighting/Signage
- ✓ Cabinet/Furniture
- ✓ Cove lighting
- ✓ Display case
- ✓ Indirect lighting
- ✓ Interior
- ✓ Mirror back lighting
- ✓ Retail display
- ✓ Shelving display
- ✓ Under bench
- ✓ Under cabinet
- ✓ Wardrobe

Key features

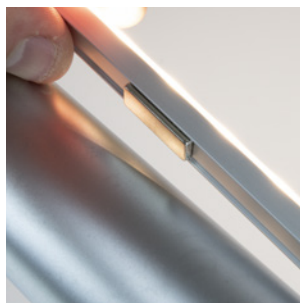
- ✓ Custom lengths
- ✓ Diffusion: Spotting
- ✓ Extensive CCT range
- ✓ Form factor: Micro
- ✓ High lumen efficacy
- ✓ IP20
- ✓ Lensed
- ✓ Output mid



MOUNTING METHODS



KKBK-20 Steel plate



Direct attachment

Linear

TiMi-M 504

Specification sheet



Dimension	H7.7/W10/L114-2014mm (H0.3/W0.39/L4.49-79.29in) (Double tail) H7.7/W10/L107-2007mm (H0.3/W0.39/L4.21-79.01in) (Single tail)
PCB increment	100mm increment/2000mm max (3.94in increment/78.74in max)
LED pitch	16.7mm - 60LED/m (0.66in - 18LED/ft)
Chip	s/e-line Toyoda Gosei k-line Toyoda Gosei or Equivalent
Beam angle	120° (No Cover) / 100° (Semi-diffused Cover) / 90° (Black Cover) / 14° (KKLN-01D)
Colours	s/e-line 1900K/2100K/2300K/2500K/2700K/3000K/3500K/4000K/5000K s-line Single colours: Red/Green/Blue/Orange/Amber k-line 1900K/2100K/2300K/2500K/2700K/3000K/3500K/4000K/5000K
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 = 70°C) T _a = -13 to 122°F (T _c max = 158°F)
IP rating	IP20
Finish	Silver anodised
Cover/lens	No Cover/Semi-diffused/14° lens accessory/Black
Mounting	Surface mounting via magnet
Power feed	Hardwire tails or male/female connectors
Control	0-10V/1-10V/DMX/DALI (see visDIM range)



LED Grading Key

Exclusive Grade

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

Base Grade

k k-line	3-step commercial range Energy Star CCTs
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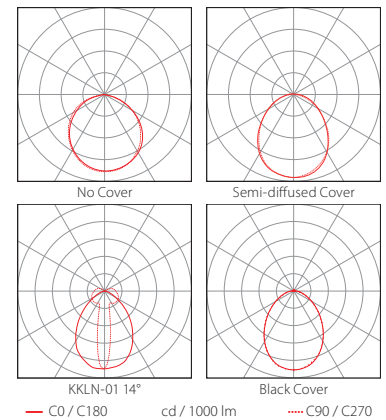
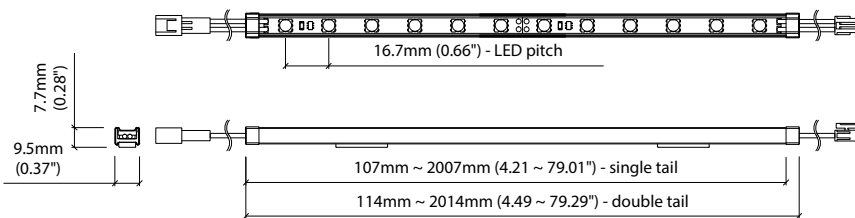
PERFORMANCE DATA @ 3000K

Power consumption	Supply voltage	Supply current
12.5W/m (3.81W/ft)	24V DC	0.52A/m (0.16A/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

	No Cover	Semi-diffused	14° (KKLN-01)	Black cover	CRI	R9	Rf	Rg
s/e-line	1240lm/m (378lm/ft) 99lm/W	1040lm/m (317lm/ft) 83lm/W	1120lm/m (341lm/ft) 89.7lm/W	315lm/m (96lm/ft) 25lm/w	92	50	88	97
k-line	1090lm/m (332lm/ft) 87.5lm/W	930lm/m (283lm/ft) 74.3lm/W	1000lm/m (305lm/ft) 80lm/W	280lm/m (85lm/ft) 22.4lm/W	92	60	90	100



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-M	IM Silver Anodised	SA No cover ⁵ Semi-diffused ⁵ KKLN-01D (14°) ⁵ Black cover ⁵	X D S Y	s e k	504	1900K 19	m 114-2014mm ⁶ 107-2007mm ⁷ 100mm increments i 4.49-79.29in ⁶ 4.21-79.01in ⁷ 3.94in increments (Specify length code OR total run length)	IP20 20	50mm (1.97in) 0050	Single no sheath tail S00X Double no sheath tail D00X Single no sheath IP20 connector S20X Double no sheath IP20 connector D20X	DC 24V g
					2100K 21	300mm (11.81in) 0300					
					2300K 23						
					2500K 25						
					2700K 27						
					3000K 30						
					3500K 35						
					4000K 40						
					5000K 50						
					RED RED s-only						
					GREEN GRN						
					BLUE BLU						
					ORANGE ORN						
					AMBER AMB						

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 Operating temperatures vary for TiMi-M with cover and TiMi-M without cover; please check with a KKDC engineer if operating temperature is limiting product application

⁶ Double clamp TiMi-M length

⁷ Single clamp TiMi-M length

Code Example:

IM	-	SA	-	D	-	s	-	504	-	35	-	m	-	514	-	20	-	0050	-	D20X	-	g
TiMi-M		Silver Anodised		Semi-diffused		s		504		3500K		514mm		IP20		50mm (1.97in)		Double no sheath IP20 connector		DC 24V		

ACCESSORIES

Mounting Accessories

KKBK-20 Steel plate

* 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	Output	LED	Lumen/m	Lumen/ft	W/m	W/ft	Spec Doc	Length	Increment
Single CCT	Low	352	510	155	5.5	1.67	TiMi-M 352	97.3-2014mm (3.83-79.29in)	83.3mm (3.28in)
	Mid	007	950	290	10.9	3.32	TiMi-M 007	55.7-2014mm (2.19-79.29in)	41.7mm (1.64in)
	Mid	504	1240	378	12.5	3.81	TiMi-M 504	114-2014mm (4.49-79.29in)	100mm (3.94in)
Warm Dim/Dynamic White	Mid	010	1400	426	10	3.05	TiMi-M A010	90.92-2014mm (3.58-79.29in)	38.46mm (1.51in)
	High	508	1720	524	17.5	5.33	TiMi-M 508	85.4-2014mm (3.36-79.29in)	71.4mm (2.81in)
	High	020	2800	853	20	6.10	TiMi-M A020	90.92-2014mm (3.58-79.29in)	38.46mm (1.51in)
Warm Dim/Dynamic White	Mid	207	900	274	11	3.35	TiMi-M 207	97.3-2014mm (3.83-79.29in)	83.3mm (3.28in)
	High	208	1510	460	15.6	4.75	TiMi-M 208	180.7-2014mm (7.11-79.29in)	166.7mm (6.56in)
RGB		501	Red 150 Green 320 Blue 50 RGB 460	Red 46 Green 98 Blue 15 RGB 140	15.6	4.75	TiMi-M RGB	97.3-2014mm (3.83-79.29in)	83.3mm (3.28in)

* Performance data: A/s/e-line, no cover, 3000K

TiMi-M 504

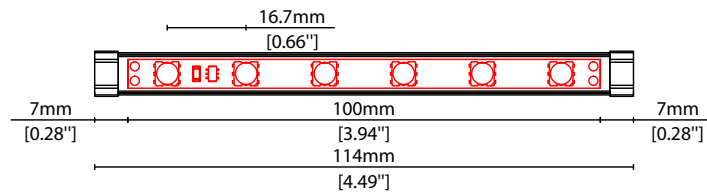
Length Availability List



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)	Range Data
m0114	i0004	114mm	4.49in	100mm	3.94in	N/A	N/A	1.25	124	22-129
m0214	i0008	214mm	8.43in	200mm	7.87in	N/A	N/A	2.50	248	45-257
m0314	i0012	314mm	12.36in	300mm	11.81in	N/A	N/A	3.75	371	67-386
m0414	i0016	414mm	16.30in	400mm	15.75in	N/A	N/A	5.00	495	90-515
m0514	i0020	514mm	20.24in	500mm	19.69in	N/A	N/A	6.25	619	112-644
m0614	i0024	614mm	24.17in	600mm	23.62in	N/A	N/A	7.50	743	134-772
m0714	i0028	714mm	28.11in	700mm	27.56in	N/A	N/A	8.75	866	157-901
m0814	i0032	814mm	32.05in	800mm	31.50in	N/A	N/A	10.00	990	179-1030
m0914	i0036	914mm	35.98in	900mm	35.43in	N/A	N/A	11.25	1114	202-1158
m1014	i0040	1014mm	39.92in	1000mm	39.37in	N/A	N/A	12.50	1238	224-1287
m1114	i0044	1114mm	43.86in	1100mm	43.31in	N/A	N/A	13.75	1361	246-1416
m1214	i0048	1214mm	47.80in	1200mm	47.24in	N/A	N/A	15.00	1485	269-1544
m1314	i0052	1314mm	51.73in	1300mm	51.18in	N/A	N/A	16.25	1609	291-1673
m1414	i0056	1414mm	55.67in	1400mm	55.12in	N/A	N/A	17.50	1733	314-1802
m1514	i0060	1514mm	59.61in	1500mm	59.06in	N/A	N/A	18.75	1856	336-1931
m1614	i0064	1614mm	63.54in	1600mm	62.99in	N/A	N/A	20.00	1980	358-2059
m1714	i0067	1714mm	67.48in	1700mm	66.93in	N/A	N/A	21.25	2104	381-2188
m1814	i0071	1814mm	71.42in	1800mm	70.87in	N/A	N/A	22.50	2228	403-2317
m1914	i0075	1914mm	75.35in	1900mm	74.80in	N/A	N/A	23.75	2351	426-2445
m2014	i0079	2014mm	79.29in	2000mm	78.74in	N/A	N/A	25.00	2475	448-2574

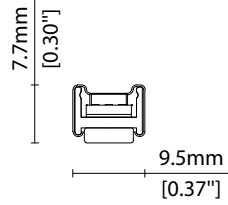
¹ Actual total overall length of light fixture (LED strip + end caps + void/wire hole)

² Actual length of PCB strip

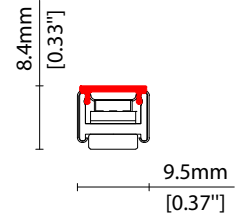
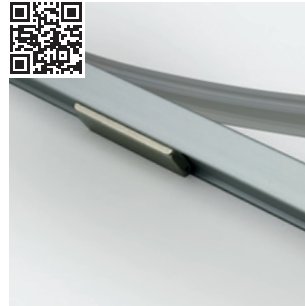


COVER/LENS OPTIONS

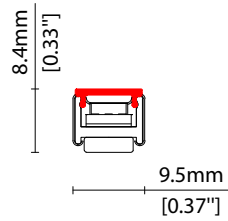
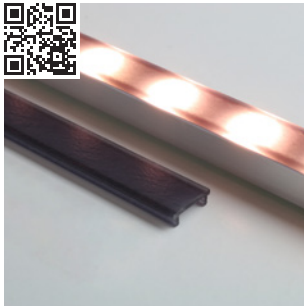
* Options are an integral part of the fixture ordering codes. Please refer to **Code Table** pages.



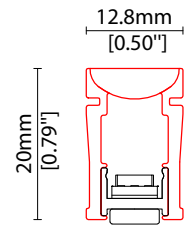
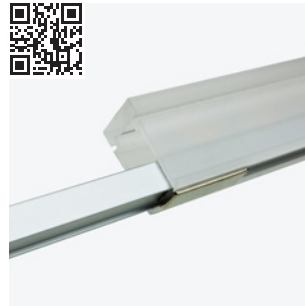
X No cover
W9.5/H7.7mm (W0.37"/H0.30")



D Semi-diffused cover
Polycarbonate finish
W9.5/H8.4mm (W0.37"/H0.33")



Y Black semi-diffused cover
Black translucent PMMA
25% light output
W9.5/H8.4mm (W0.37"/H0.33")

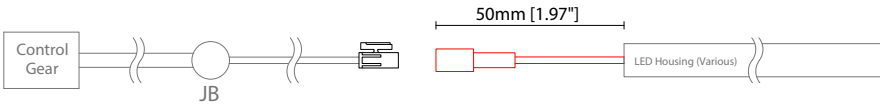


S 14° lens (KKLN-01D)
14° beam linear lens,
co-extruded PMMA
W12.8/H20mm (W0.50"/H0.79")

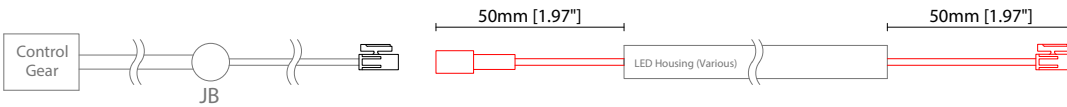
POWER FEED OPTIONS

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

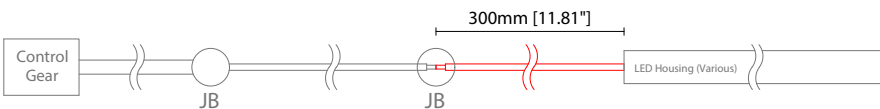
0050 S20X 50mm (1.97") Single no sheath IP20 connector



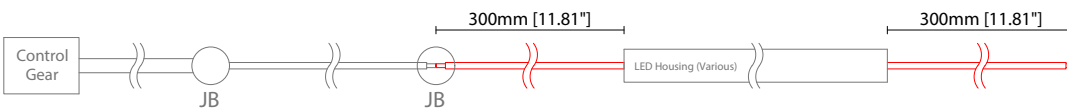
0050 D20X 50mm (1.97") Double no sheath IP20 connector



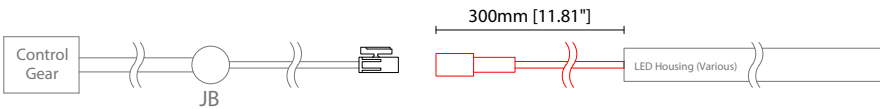
0300 S00X 300mm (11.81") Single no sheath tail



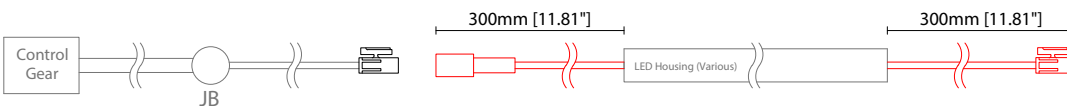
0300 D00X 300mm (11.81") Double no sheath tail



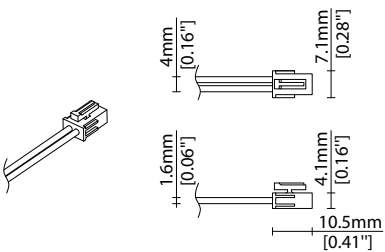
0300 S20X 300mm (11.81") Single no sheath IP20 connector



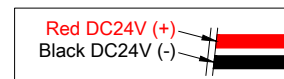
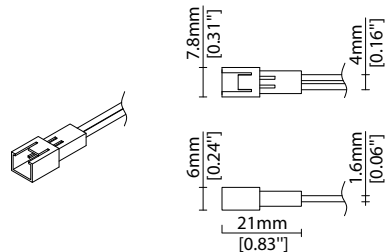
0300 D20X 300mm (11.81") Double no sheath IP20 connector



2 Pin Female Connector



2 Pin Male Connector



Key

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

MOUNTING ACCESSORIES

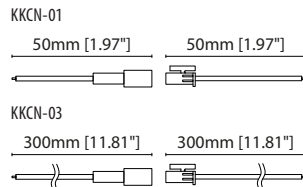
Note: Accessories are to be ordered separately with corresponding code shown below.



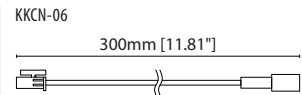
KKBK-20

Steel plate (allow 4 per metre/40")
Steel finish
L40/W10/H9.4mm
(L1.58/W0.39/H0.37")

POWER FEED



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)

Linear

TiMi-M 504 Accessories

KKDÖ

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