

Linear

TIMI-C R207

Fixture Guide

KKDÖ



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

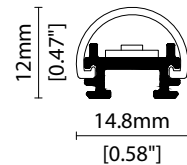


Key applications

- ✓ 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: spoting
- ✓ 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

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

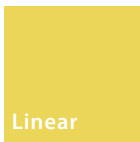
LEDmix R209

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/L95-2012mm (H0.48/W0.58/L3.74-79.21in)
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-line* 2-step CCT range	*KKDC tuned CCT range
Base Grade	
k-line 3-step commercial range Energy Star CCTs	

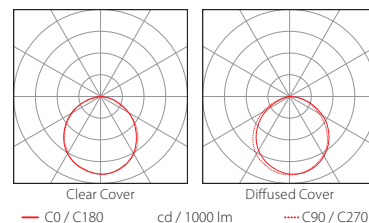
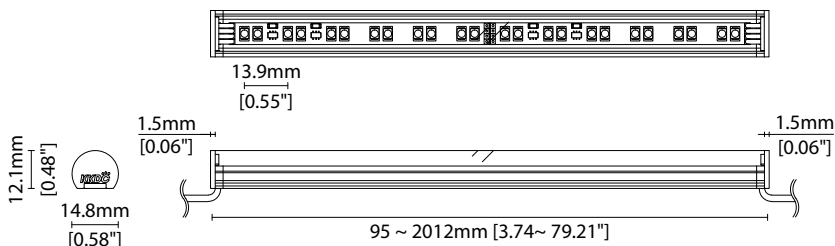
Power consumption	Supply voltage	Supply current
16W/m (4.88W/ft)	24V DC	0.67A/m (0.20A/ft)

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



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	s	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	k	R207	2100K	21	i	3.26-78.74in 1.64in increments
				2300K	23	2500K	25	(Specify length code OR total run length)	Single no sheath IP20 connector	S20X																		
											2700K	27	4000K	40	Double no sheath IP20 connector	D20X												
																	3000K	30	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	95-2012mm (3.74-79.21in)	41.7mm (1.64in)
	A010	1330	405	10	3.05	TIMI-C A010	89-2012mm (3.50-79.21in)	38.46mm (1.51in)
	R014	1410	430	14	4.27	TIMI-C R014	95-2012mm (3.74-79.21in)	41.7mm (1.64in)
	R020	1844	562	20	6.10	TIMI-C R020	95-2012mm (3.74-79.21in)	41.7mm (1.64in)
	A020	2660	810	20	6.10	TIMI-C A020	89-2012mm (3.50-79.21in)	38.46mm (1.51in)
Warm Dim/Dynamic White	R207	1459	44	16	4.88	TIMI-C R207	95-2012mm (3.74-79.21in)	83.3mm (3.28in)

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

TIMI-C R207

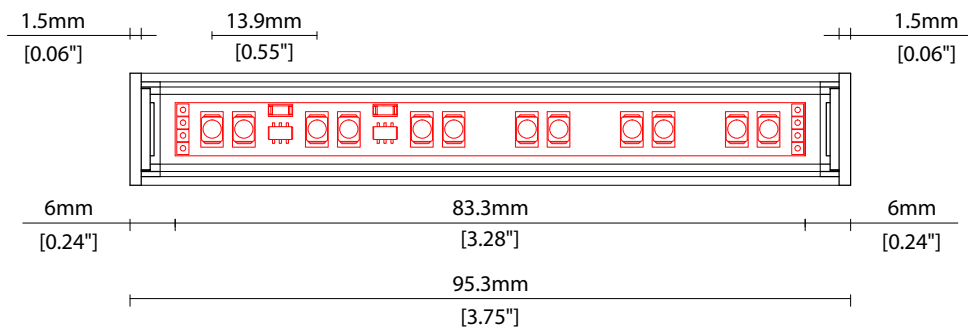
Length Availability List



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)
m0095	i0004	95mm	3.75in	83mm	3.28in	2mm	0.08in	1.67	145
m0179	i0007	179mm	7.03in	167mm	6.56in	2mm	0.08in	3.33	290
m0262	i0010	262mm	10.31in	250mm	9.84in	2mm	0.08in	5.00	435
m0345	i0014	345mm	13.60in	333mm	13.12in	2mm	0.08in	6.67	580
m0429	i0017	429mm	16.88in	417mm	16.40in	2mm	0.08in	8.33	725
m0512	i0020	512mm	20.16in	500mm	19.69in	2mm	0.08in	10.00	870
m0595	i0023	595mm	23.44in	583mm	22.97in	2mm	0.08in	11.67	1015
m0679	i0027	679mm	26.72in	667mm	26.25in	2mm	0.08in	13.33	1160
m0762	i0030	762mm	30.00in	750mm	29.53in	2mm	0.08in	15.00	1305
m0845	i0033	845mm	33.28in	833mm	32.81in	2mm	0.08in	16.67	1450
m0929	i0037	929mm	36.56in	917mm	36.09in	2mm	0.08in	18.33	1595
m1012	i0040	1012mm	39.84in	1000mm	39.37in	2mm	0.08in	20.00	1740
m1095	i0043	1095mm	43.12in	1083mm	42.65in	2mm	0.08in	21.67	1885
m1179	i0046	1179mm	46.40in	1167mm	45.93in	2mm	0.08in	23.33	2030
m1262	i0050	1262mm	49.69in	1250mm	49.21in	2mm	0.08in	25.00	2175
m1345	i0053	1345mm	52.97in	1333mm	52.49in	2mm	0.08in	26.67	2320
m1429	i0056	1429mm	56.25in	1417mm	55.77in	2mm	0.08in	28.33	2465
m1512	i0060	1512mm	59.53in	1500mm	59.06in	2mm	0.08in	30.00	2610
m1595	i0063	1595mm	62.81in	1583mm	62.34in	2mm	0.08in	31.67	2755
m1679	i0066	1679mm	66.09in	1667mm	65.62in	2mm	0.08in	33.33	2900
m1762	i0069	1762mm	69.37in	1750mm	68.90in	2mm	0.08in	35.00	3045
m1845	i0073	1845mm	72.65in	1833mm	72.18in	2mm	0.08in	36.67	3190
m1929	i0076	1929mm	75.93in	1917mm	75.46in	2mm	0.08in	20.00	1740
m2012	i0079	2012mm	79.21in	2000mm	78.74in	2mm	0.08in	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

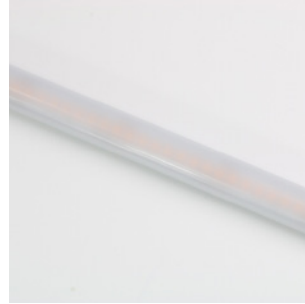
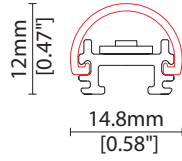
KKDC

COVER OPTIONS

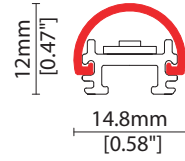
* Options are an integral part of the fixture ordering codes. Please refer to **Code Table** pages.



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

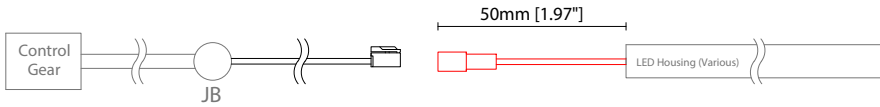


C Diffused cover
Polycarbonate finish
W14.8/H12mm (W0.58/H0.47")

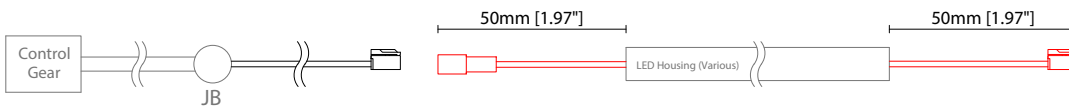


POWER FEED OPTIONS

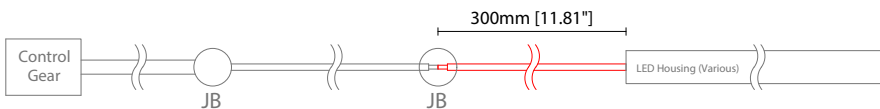
0050 S20X 50mm (1.97") Single no sheath IP20 connector



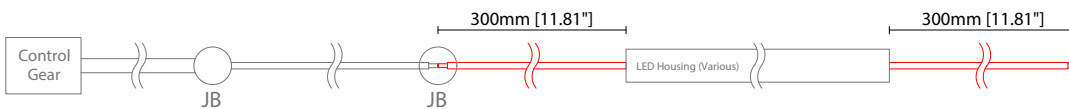
0050 D20X 50mm (1.97") Double no sheath IP20 connector



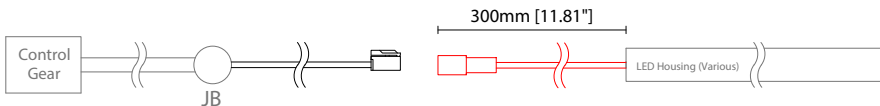
0300 S00X 300mm (11.81") Single no sheath tail



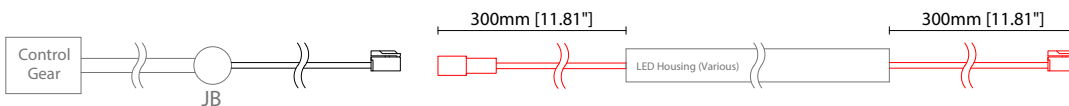
0300 D00X 300mm (11.81") Double no sheath tail



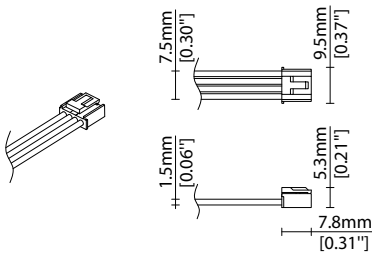
0300 S20X 300mm (11.81") Single no sheath IP20 connector



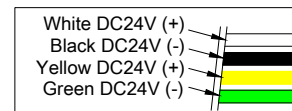
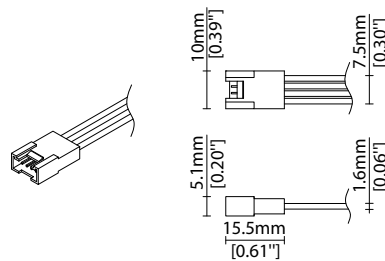
0300 D20X 300mm (11.81") Double no sheath IP20 connector



4 Pin LEDmix Female Connector



4 Pin LEDmix Male Connector



Key

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

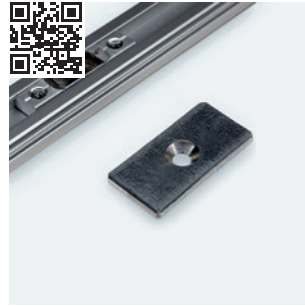
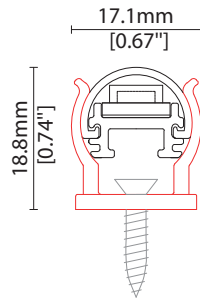
MOUNTING ACCESSORIES

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



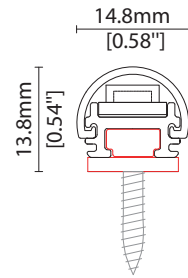
TCFC-01

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

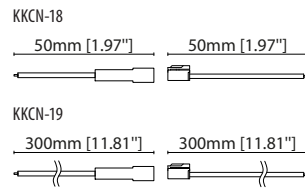


TCMS-01

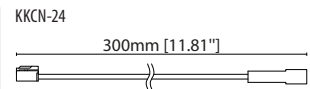
Magnet fixing set
(allow 4 per Metre/39.4in)
Aluminium/Steel finish
Pre-assembled in factory
L30/W14.8/H13.8mm
(L1.18/W0.58/H0.54")



POWER FEED



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



KCCN-24
4 PIN LEDmix 300mm (11.81in)
extension lead

Linear

TIMI-C R207 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)

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

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