

Linear

LiNi-R 508 Fixture Guide

KKDC

Indoor | Recessed | Mid output up to 620lm/m (189lm/ft)

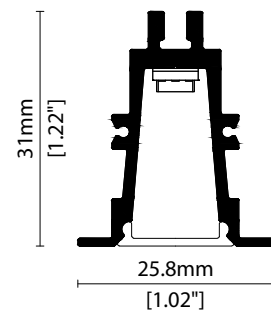


Key applications

- ✓ Ceiling
- ✓ Interior
- ✓ Downlighting
- ✓ Under cabinet

Key features

- ✓ Custom lengths
- ✓ Diffusion: Homogenous
- ✓ Direct view
- ✓ Extensive CCT range
- ✓ Form factor: Medium
- ✓ IP40
- ✓ Output mid



Linear

LiNi-R 508

Specification sheet



Dimension	H31/W25.8/L88.4-2017mm (H1.22/W1.02/L3.48-79.41in) (excluding spring clips)
PCB increment	71.4mm increment/2000mm max (2.81in increment/78.74in max)
LED pitch	11.9mm - 84LED/m (0.47in - 26LED/ft)
Chip	s/e-line Toyoda Gosei k-line Samsung
Beam angle	110° (Diffused Cover)
Colours	s/e-line 2100K/2300K/2500K/2700K/3000K/3200K/3500K/4000K/5000K k-line 1900K/2100K/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 45°C (T _c max = 60°C) T _a = -13 to 113°F (T _c max = 140°F)
IP rating	IP40
Finish	Silver anodised
Cover/lens	Diffused
Mounting	Recessed mounting via spring clip
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
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

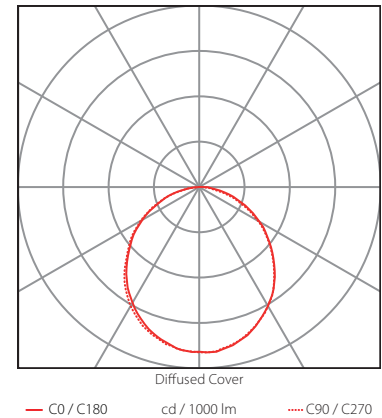
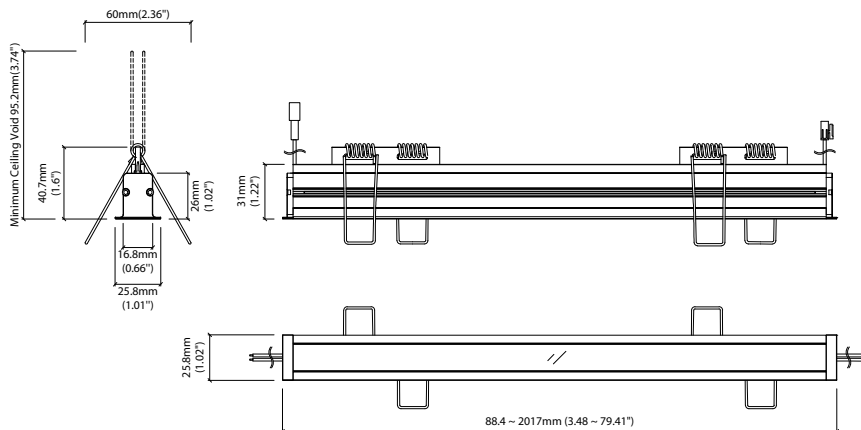
Power consumption	Supply voltage	Supply current
17.5W/m (5.33W/ft)	24V DC	0.73A/m (0.22A/ft)

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

Diffused Cover

				CRI	R9	Rf	Rg
s/e-line	620lm/m (189lm/ft)	35.5lm/W		92	50	-	-
k-line	600lm/m (183lm/ft)	34lm/W		92	60	-	-



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

FIXTURE

Model	Finish	Cover	Grade*	LED	Colour (CCT)	Length Availability**	IP	Cable Length	Power Feed***	Input				
LiNi-R	LR	Silver Anodised	SA	Diffused	C	<div style="display: flex; align-items: center;"> <div style="width: 15px; height: 15px; background-color: red; margin-right: 5px;"></div> s </div> <div style="display: flex; align-items: center; margin-top: 5px;"> <div style="width: 15px; height: 15px; background-color: green; margin-right: 5px;"></div> e </div> <div style="display: flex; align-items: center; margin-top: 5px;"> <div style="width: 15px; height: 15px; background-color: orange; margin-right: 5px;"></div> k </div>	508	1900K ¹ 19 2100K 21 2300K ¹ 23 2500K 25 2700K 27 3000K 30 3200K ¹ 32 3500K 35 4000K 40 5000K 50	m 88.4-2017mm 71.4mm increments i 3.48-79.41in 2.81in increments (Specify length code OR total run length)	IP40	40	50mm/1.97" 0050 300mm/11.81" 0300 1000mm/39.37" 1000	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

¹ 1900K is only available in k-line, 2300K & 3200K are only available in s/e-line

* Refer to **LED Grading Key** on **Specification sheet** page ** Refer to **Length Availability List** or enter total run length instead of length code *** Refer to **Power Feed Options** on **Options** pages

Code Example:

LR	-	SA	-	C	-	s	-	508	-	35	-	m	-	517	-	40	-	0300	-	D00X	-	g
LiNi-R		Silver Anodised		Diffused		s		508		3500K		516.8mm		IP40		300mm/11.81"		Double no sheath tail		DC 24V		

ACCESSORIES
Connection Accessories

KKCN-01	2 PIN male & female 50mm/1.97" pair
KKCN-03	2 PIN male & female 300mm/11.81" pair
KKCN-06	2 PIN 300mm/11.81" extension lead

PSU/Driver

0-10V/1-10W/Dali/DMX

* Refer to **Driver/PSU Options** page for details or provide requirement and KKDC to offer the suitable option

* Refer to **Power feed** on **Accessories** pages

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	200	61	5.5	1.67	LiNi-R 352	100.3-2017mm/3.95-79.41in	83.3mm/3.28in
	Low	504	440	134	12.5	3.81	LiNi-R 504	117-2017mm/4.61-79.41in	100mm/3.94in
	Mid	508	620	189	17.5	5.33	LiNi-R 508	88.4-2017mm/3.48-79.41in	71.4mm/2.81in
Warm Dim/Dynamic White	Low	207	345	105	11	3.35	LiNi-R 207	100.3-2017mm/3.95-79.41in	83.3mm/3.28in
	Mid	208	550	186	15.6	4.75	LiNi-R 208	183.7-2017mm/7.23-79.41in	166.7mm/6.56in
RGB		501	Red 54 Green 116 Blue 19 RGB 167	Red 16 Green 35 Blue 6 RGB 51	15.6	4.75	LiNi-R RGB	100.3-2017mm/3.95-79.41in	83.3mm/3.28in

* Performance data: s/e-line, diffused cover, 3000K

LiNi-R 508

Length Availability List

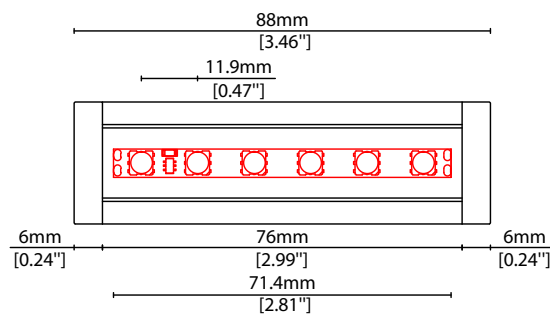


Length Code		Fixture Length ¹		LED Strip ²		End Cap Dimension ³		Wattage (W)	Output (lm)	
Metric	Imperial(US)	Metric	Imperial(US)	Metric	Imperial(US)	Metric	Imperial(US)		3000K (Test Data)	Range Data
m0088	i0003	88mm	3.48in	71mm	2.81in	12mm	0.47in	1.25	44	34-46
m0160	i0006	160mm	6.29in	143mm	5.62in	12mm	0.47in	2.50	89	68-92
m0231	i0009	231mm	9.11in	214mm	8.44in	12mm	0.47in	3.75	133	102-138
m0303	i0012	303mm	11.92in	286mm	11.25in	12mm	0.47in	5.00	178	136-185
m0374	i0015	374mm	14.73in	357mm	14.06in	12mm	0.47in	6.25	222	170-231
m0445	i0018	446mm	17.54in	429mm	16.87in	12mm	0.47in	7.50	266	204-277
m0517	i0020	517mm	20.35in	500mm	19.69in	12mm	0.47in	8.75	311	238-323
m0588	i0023	588mm	23.17in	571mm	22.50in	12mm	0.47in	10.00	355	272-369
m0660	i0026	660mm	25.98in	643mm	25.31in	12mm	0.47in	11.25	399	306-415
m0731	i0029	731mm	28.79in	714mm	28.12in	12mm	0.47in	12.50	444	340-462
m0803	i0032	803mm	31.60in	786mm	30.93in	12mm	0.47in	13.75	488	374-508
m0874	i0034	874mm	34.42in	857mm	33.75in	12mm	0.47in	15.00	533	408-554
m0945	i0037	946mm	37.23in	929mm	36.56in	12mm	0.47in	16.25	577	442-600
m1017	i0040	1017mm	40.04in	1000mm	39.37in	12mm	0.47in	17.50	621	476-646
m1088	i0043	1088mm	42.85in	1071mm	42.18in	12mm	0.47in	18.75	666	510-692
m1160	i0046	1160mm	45.66in	1143mm	45.00in	12mm	0.47in	20.00	710	544-738
m1231	i0048	1231mm	48.48in	1214mm	47.81in	12mm	0.47in	21.25	754	578-785
m1303	i0051	1303mm	51.29in	1286mm	50.62in	12mm	0.47in	22.50	799	612-831
m1374	i0054	1374mm	54.10in	1357mm	53.43in	12mm	0.47in	23.75	843	646-877
m1445	i0057	1446mm	56.91in	1429mm	56.24in	12mm	0.47in	25.00	888	680-923
m1517	i0060	1517mm	59.73in	1500mm	59.06in	12mm	0.47in	26.25	932	714-969
m1588	i0063	1588mm	62.54in	1571mm	61.87in	12mm	0.47in	27.50	976	748-1015
m1660	i0065	1660mm	65.35in	1643mm	64.68in	12mm	0.47in	28.75	1021	782-1061
m1731	i0068	1731mm	68.16in	1714mm	67.49in	12mm	0.47in	30.00	1065	816-1108
m1803	i0071	1803mm	70.97in	1786mm	70.31in	12mm	0.47in	31.25	1109	850-1154
m1874	i0074	1874mm	73.79in	1857mm	73.12in	12mm	0.47in	32.50	1154	884-1200
m1945	i0077	1946mm	76.60in	1929mm	75.93in	12mm	0.47in	33.75	1198	918-1246
m2017	i0079	2017mm	79.41in	2000mm	78.74in	12mm	0.47in	35.00	1243	952-1292

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

² Actual length of PCB strip

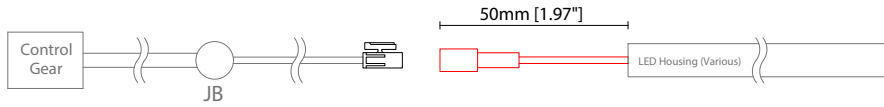
³ Actual length of 2x end caps



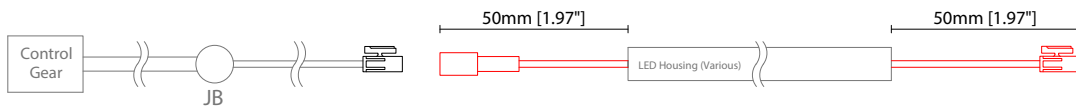
POWER FEED OPTIONS

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

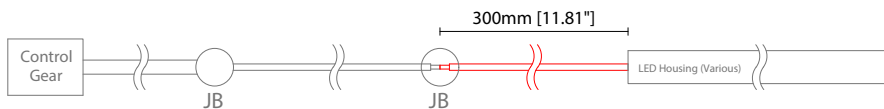
0050 S20X 50mm (1.97") Single no sheath IP20 connector



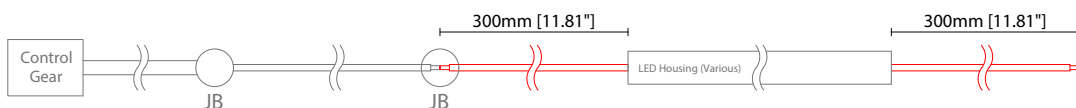
0050 D20X 50mm (1.97") Double no sheath IP20 connector



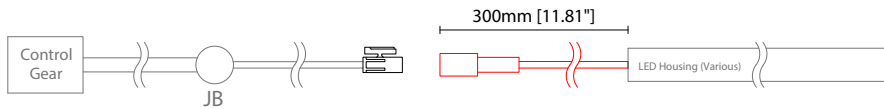
0300 S00X 300mm (11.81") Single no sheath tail



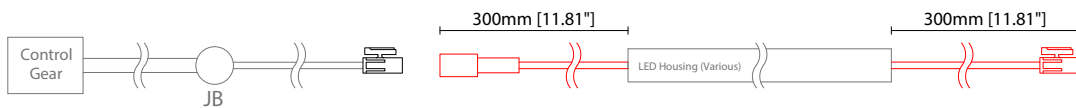
0300 D00X 300mm (11.81") Double no sheath tail



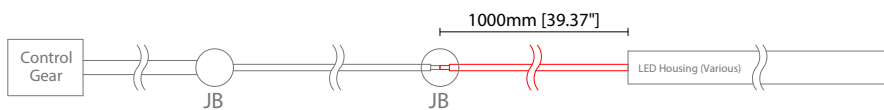
0300 S20X 300mm (11.81") Single no sheath IP20 connector



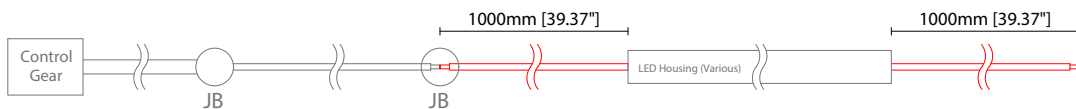
0300 D20X 300mm (11.81") Double no sheath IP20 connector



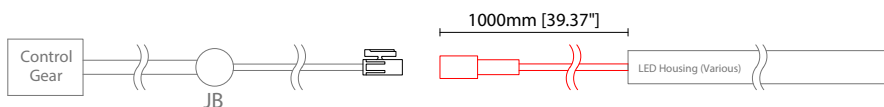
1000 S00X 1000mm (39.37") Single no sheath tail



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



1000 S20X 1000mm (39.37") Single no sheath IP20 connector

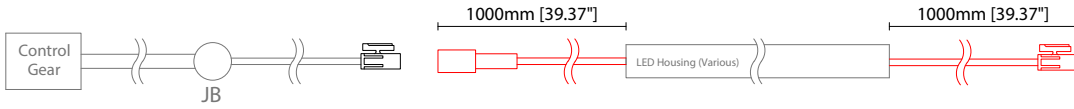


Key

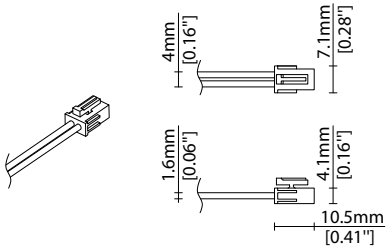
- Control Gear Power supply, sub-controllers & control systems
- JB Junction box / cable connection

POWER FEED OPTIONS (CONTINUED)

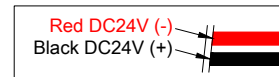
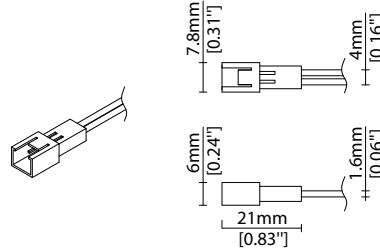
1000 D20X 1000mm (39.37") Double no sheath IP20 connector



2 Pin Female Connector



2 Pin Male Connector

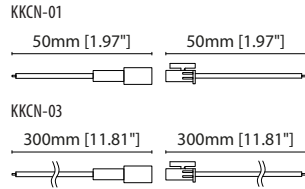
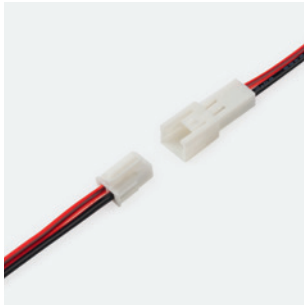


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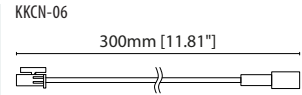
Control Gear Power supply, sub-controllers & control systems
 JB Junction box / cable connection

POWER FEED

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



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
Black plastic housing
L164/W64/H34mm
(L6.46/W2.52/H1.34in)

KKDM-05 1-10V
visDIM dimmable sub-controller



IP20
Black plastic housing
L164/W64/H34mm
(L6.46/W2.52/H1.34in)

KKSC-03A DMX (screw terminal)
visDIM dimmable sub-controller



IP20
Black plastic housing
L164/W64/H34mm
(L6.46/W2.52/H1.34in)

KKSC-03B DMX (RJ45)
visDIM dimmable sub-controller



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)

Linear

LiNi-R 508

Accessories

KKDC

KKDC CONTROL (CONTINUED)



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-05	90-295V	24V	2.5A	60W	100-0.9	IP67/IP20
	HLG-60H-24	KKDM-05	90-295V	24V	2.5A	60W	100-0.9	IP67/IP20
	HLG-100H-24	KKDM-05	90-295V	24V	4.0A	100W	100-0.9	IP67/IP20
	HLG-150H-24	KKDM-05	90-295V	24V	6.3A	150W	100-0.9	IP67/IP20
	HLG-240H-24	KKDM-05	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-03	90-295V	24V	2.5A	60W	100-0.9	IP67/IP20
	HLG-60H-24	KKSC-03	90-305V	24V	2.5A	60W	100-0.9	IP67/IP20
	HLG-100H-24	KKSC-03	90-305V	24V	4A	100W	100-0.9	IP67/IP20
	HLG-150H-24	KKSC-03	90-305V	24V	6.3A	150W	100-0.9	IP67/IP20
	HLG-240H-24	KKSC-03	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