

Linear

LiNi-R 352

Fixture Guide

KKDC

Indoor | Recessed | Low output up to 200lm/m (61lm/ft)

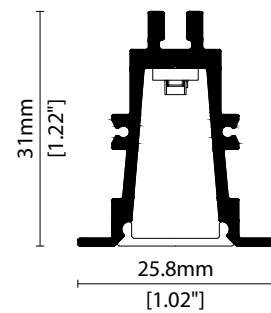


Key applications

- ✓ Ceiling
- ✓ Downlighting
- ✓ Interior
- ✓ Orientation lighting
- ✓ Under cabinet

Key features

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



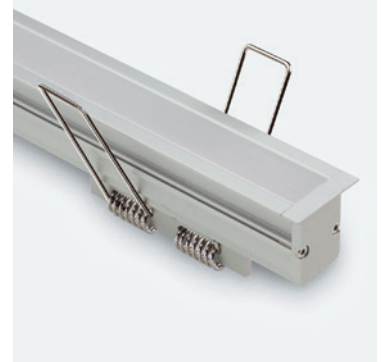
Linear

LiNi-R 352

Specification sheet



Dimension	H31/W25.8/L100.3-2017mm (H1.22/W1.02/L3.95-79.41in) (excluding spring clips)
PCB increment	83.3mm increment/2000mm max (3.28in increment/78.74in max)
LED pitch	13.9mm - 72LED/m (0.55in - 22LED/ft)
Chip	s/e-line Toyoda Gosei k-line Toyoda Gosei or Equivalent
Beam angle	110° (Diffused Cover)
Colours	s-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 60°C (T _c max = 70°C) T _a = -13 to 140°F (T _c max = 158°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*
2-step CCT range
- e** e-line*
3-step CCT range

*KKDC tuned CCT range

Base Grade

- k** k-line
3-step commercial range
Energy Star CCTs

PERFORMANCE DATA @ 3000K

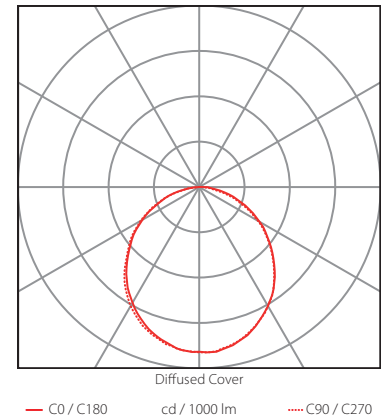
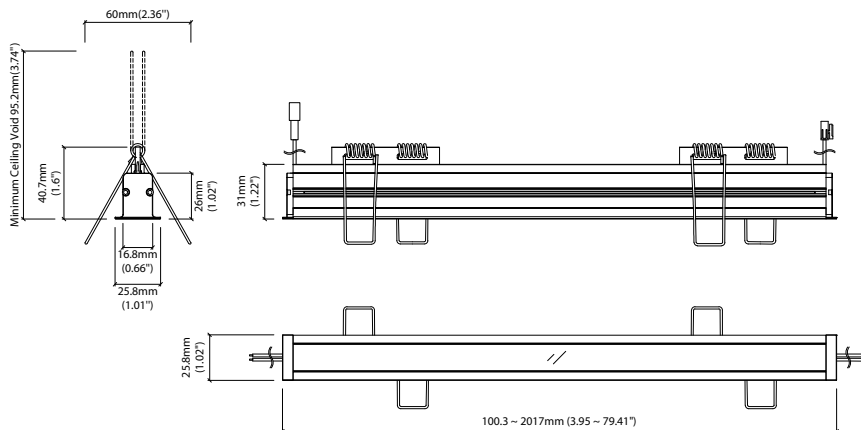
Power consumption	Supply voltage	Supply current
5.5W/m (1.67W/ft)	24V DC	0.23A/m (0.07A/ft)

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	200lm/m (61lm/ft)	36.1lm/W		93	63	-	-
k-line	200lm/m (61lm/ft)	35.6lm/W		92	60	-	-



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

FIXTURE

Model	Finish	Cover	Grade ¹	LED	Colour (CCT)	Length Availability ²	IP	Cable Length	Power Feed ³	Input
LiNi-R LR	Silver Anodised SA	Diffused C		352	1900K 19	m 100.3-2017mm 83.3mm increments i 3.95-79.41in 3.28in increments (Specify length code OR total run length)	IP40 40	50mm/1.97" 0050	Single no sheath tail S00X	DC 24V g
					2100K 21			300mm/11.81" 0300	Double no sheath tail D00X	
					2300K 23			1000mm/39.37" 1000	Single no sheath IP20 connector S20X	
					2500K 25				Double no sheath IP20 connector D20X	
					2700K 27					
					3000K 30					
					3500K 35					
					4000K 40					
					5000K 50					
					RED RED only					
					GREEN GRN					
					BLUE BLU					
					ORANGE ORN					
					AMBER AMB					

¹ Refer to **LED Grading Key** on **Specification sheet** page

² Refer to **Length Availability List** or enter total run length instead of length code

³ Refer to **Power Feed Options** on **Options** pages

Code Example:

LR	-	SA	-	C	-	s	-	352	-	35	-	m	517	-	40	-	0300	-	D00X	-	g
LiNi-R		Silver Anodised		Diffused				352		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/1-10V/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
Warm Dim/Dynamic White	Mid	508	620	189	17.5	5.33	LiNi-R 508	88.4-2017mm/3.48-79.41in	71.4mm/2.81in
	Low	207	345	105	11	3.35	LiNi-R 207	100.3-2017mm/3.95-79.41in	83.3mm/3.28in
RGB	Mid	208	550	186	15.6	4.75	LiNi-R 208	183.7-2017mm/7.23-79.41in	166.7mm/6.56in
		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 352

Length Availability List

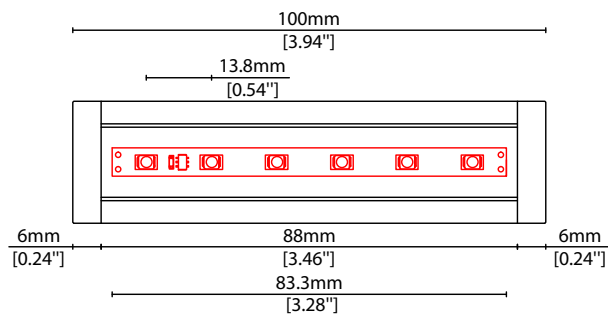


Length Code		Fixture Length ¹		LED Strip ²		End Cap Dimension ³		Wattage (W)	Output (lm)	
Metric	Imperial(US)	Metric	Imperial(US)	Metric	Imperial(US)	Metric	Imperial(US)		3000K (Test Data)	Range Data
m0100	i0004	100mm	4in	83mm	3.28in	12mm	0.47in	0.46	16	10-17
m0184	i0007	184mm	7in	167mm	6.56in	12mm	0.47in	0.92	33	20-34
m0267	i0011	267mm	11in	250mm	9.84in	12mm	0.47in	1.37	49	29-51
m0350	i0014	350mm	14in	333mm	13.12in	12mm	0.47in	1.83	65	39-68
m0434	i0017	434mm	17in	417mm	16.41in	12mm	0.47in	2.29	82	49-85
m0517	i0020	517mm	20in	500mm	19.69in	12mm	0.47in	2.75	98	59-102
m0600	i0024	600mm	24in	583mm	22.97in	12mm	0.47in	3.21	114	69-119
m0684	i0027	684mm	27in	667mm	26.25in	12mm	0.47in	3.67	131	79-136
m0767	i0030	767mm	30in	750mm	29.53in	12mm	0.47in	4.12	147	88-153
m0850	i0033	850mm	33in	833mm	32.81in	12mm	0.47in	4.58	163	98-170
m0934	i0037	934mm	37in	917mm	36.09in	12mm	0.47in	5.04	179	108-187
m1017	i0040	1017mm	40in	1000mm	39.37in	12mm	0.47in	5.50	196	118-204
m1100	i0043	1100mm	43in	1083mm	42.65in	12mm	0.47in	5.96	212	128-221
m1184	i0047	1184mm	47in	1167mm	45.94in	12mm	0.47in	6.42	228	138-238
m1267	i0050	1267mm	50in	1250mm	49.22in	12mm	0.47in	6.87	245	147-255
m1350	i0053	1350mm	53in	1333mm	52.50in	12mm	0.47in	7.33	261	157-272
m1434	i0056	1434mm	56in	1417mm	55.78in	12mm	0.47in	7.79	277	167-288
m1517	i0060	1517mm	60in	1500mm	59.06in	12mm	0.47in	8.25	294	177-305
m1600	i0063	1600mm	63in	1583mm	62.34in	12mm	0.47in	8.71	310	187-322
m1684	i0066	1684mm	66in	1667mm	65.62in	12mm	0.47in	9.17	326	197-339
m1767	i0070	1767mm	70in	1750mm	68.90in	12mm	0.47in	9.62	343	206-356
m1850	i0073	1850mm	73in	1833mm	72.18in	12mm	0.47in	10.08	359	216-373
m1934	i0076	1934mm	76in	1917mm	75.47in	12mm	0.47in	10.54	375	226-390
m2017	i0079	2017mm	79in	2000mm	78.75in	12mm	0.47in	11.00	392	236-407

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

² Actual length of PCB strip

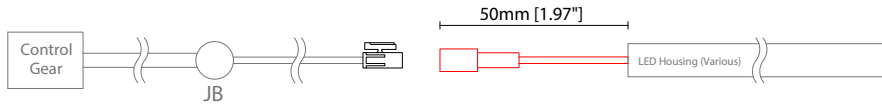
³ Actual length of 2x end caps



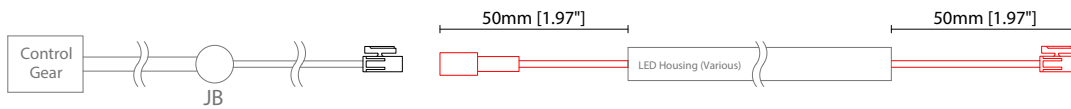
POWER FEED OPTIONS

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

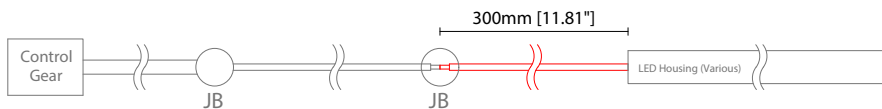
0050 S20X 50mm (1.97") Single no sheath IP20 connector



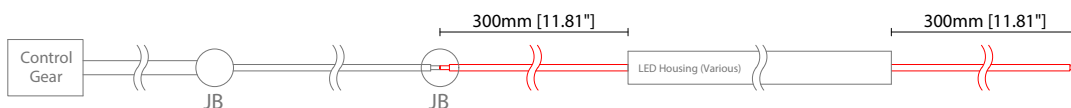
0050 D20X 50mm (1.97") Double no sheath IP20 connector



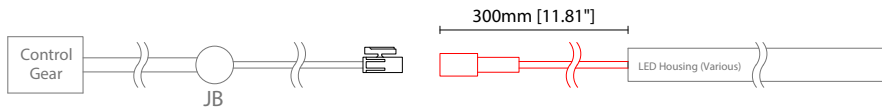
0300 S00X 300mm (11.81") Single no sheath tail



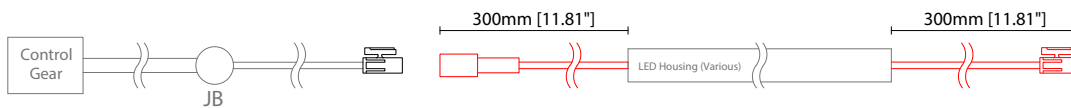
0300 D00X 300mm (11.81") Double no sheath tail



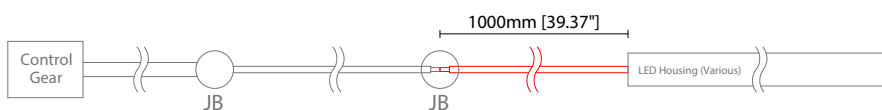
0300 S20X 300mm (11.81") Single no sheath IP20 connector



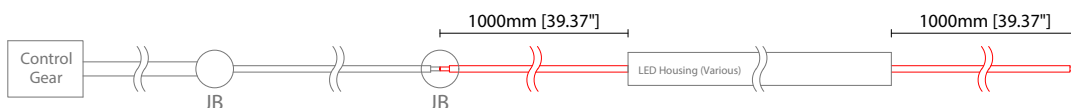
0300 D20X 300mm (11.81") Double no sheath IP20 connector



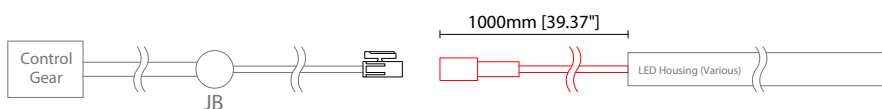
1000 S00X 1000mm (39.37") Single no sheath tail



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



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



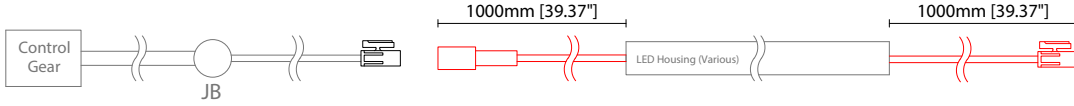
Key

Control Gear Power supply, sub-controllers & control systems

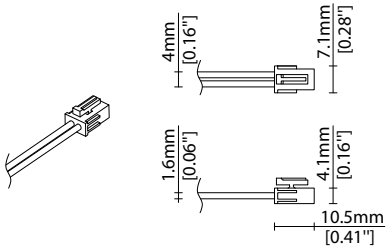
JB Junction box / cable connection

POWER FEED OPTIONS (CONTINUED)

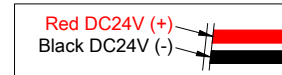
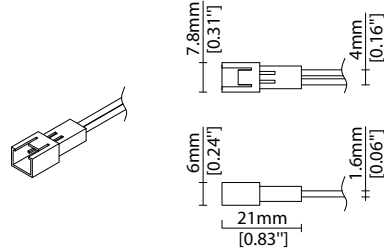
1000 D20X 1000mm (39.37") Double no sheath IP20 connector



2 Pin Female Connector



2 Pin Male Connector

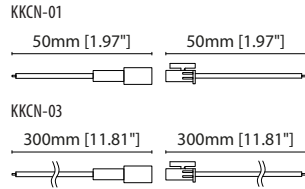
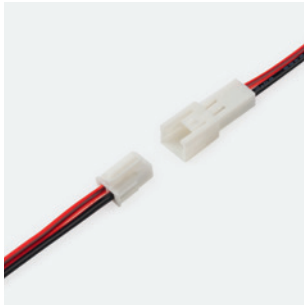


Key

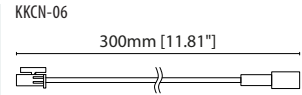
Control Gear Power supply, sub-controllers & control systems
 JB Junction box / cable connection

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
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

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