

Flexible

FX 4

Specification sheet



Dimension	H1.35/W10/L125-4000mm (H0.05/W0.39/L4.92-157.48in) (IP20) H5.5/W14/L127-4002mm (H0.22/W0.55/L5.00-157.56in) (IP65/IP67)
PCB increment	Power connection and cut point every 125mm (4.92in)
LED pitch	20.8mm - 48 LED/m (0.82in - 15LED/ft)
Chip	n/s/e-line Toyoda Gosei k-line Samsung
Beam angle	110° (KKCR-03/KKCR-04) 110°
Colours	n-line 2700K/3000K 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 (without-IP67) n/e/k-line 3-step MacAdam ellipse (n/e-line without-IP67)
CRI	≥ 90 (n-line ≥ 95)
Lifetime	50,000 hours @ 25°C (50,000 hours @ 77°F)
Operating temp	IP20 : T _a = -25 to 40°C (T _c max = 85°C) IP65/IP67 : T _a = -13 to 104°F (T _c max = 185°F)
IP rating	IP20/IP65/IP67
Finish	Silicone Cover for IP65/IP67
Cover/lens	IP65 version with silicone sheathed Cover, IP67 Version With silicone sheathed Cover, (KKCR-03/KKCR-04) Diffused
Mounting	3M double sided tape (IP20), surface mounting clips (IP65/IP67)
Min bend radius	20mmØ (0.79in) Ø (IP20)/35mmØ (1.34in) Ø (IP65/IP67)
Power feed	Hardwire tails or male/female connectors
Control	0-10V/1-10V/DMX/DALI



LED Grading Key

Exclusive Grade

n-line*	Full visible spectrum NO UV or IR 380nm-780nm 3-step CCT range	*KKDC tuned CCT range
s-line*	2-step CCT range	
e-line*	3-step CCT range	

Base Grade

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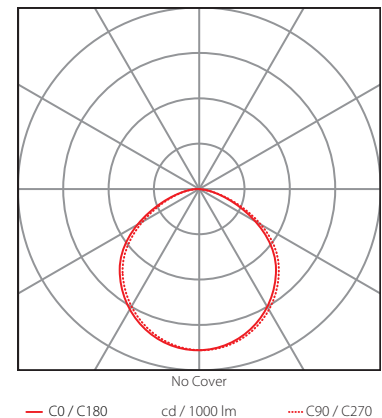
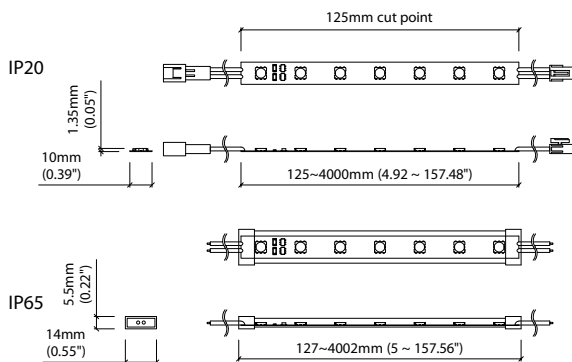
PERFORMANCE DATA @ 3000K

Power consumption	Supply voltage	Supply current
15W/m (4.57W/ft)	24V DC	0.62A/m (0.19A/ft)

Colour Rendering Index (CRI)

	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
n-line	99	98	96	97	98	97	95	91	78	95	95	92	99	97
k-line	94	97	98	93	93	96	92	83	60	93	94	82	95	99

No Cover		CRI	R9	Rf	Rg
n-line	950lm/m (290lm/ft) 63.1lm/W	97	78		
s/e-line	1450lm/m (442lm/ft) 96.6lm/W	90	50		
k-line	1300lm/m (396lm/ft) 86.8lm/W	92	60		
	1190lm/m (361lm/ft) 79lm/W				
	480lm/m (146lm/ft) 32lm/W				
	480lm/m (146lm/ft) 32lm/W				



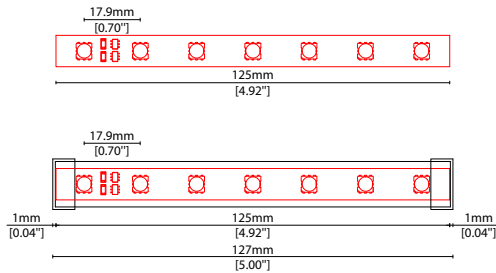
Data derived from independent UKAS / IESNA LM-79-08 accredited testing of production samples.

Flexible

FX 4 (IP20) Length Availability List



Length Code		Fixture Length		LED Strip		End Cap Dimension		Wattage (W)	Output (lm)	
Metric	Imperial(US)	Metric	Imperial(US)	Metric	Imperial(US)	Metric	Imperial(US)		3000K (Test Data)	Range Data
m0125	i0005	125mm	4.92in	125mm	4.92in	N/A	N/A	1.88	181	95-188
m0250	i0010	250mm	9.84in	250mm	9.84in	N/A	N/A	3.75	362	189-377
m0375	i0015	375mm	14.76in	375mm	14.76in	N/A	N/A	5.63	543	284-565
m0500	i0020	500mm	19.69in	500mm	19.69in	N/A	N/A	7.50	725	379-753
m0625	i0025	625mm	24.61in	625mm	24.61in	N/A	N/A	9.38	906	473-942
m0750	i0030	750mm	29.53in	750mm	29.53in	N/A	N/A	11.25	1087	568-1130
m0875	i0034	875mm	34.45in	875mm	34.45in	N/A	N/A	13.13	1268	663-1319
m1000	i0039	1000mm	39.37in	1000mm	39.37in	N/A	N/A	15.00	1449	757-1507
m1125	i0044	1125mm	44.29in	1125mm	44.29in	N/A	N/A	16.88	1630	852-1695
m1250	i0049	1250mm	49.21in	1250mm	49.21in	N/A	N/A	18.75	1811	947-1884
m1375	i0054	1375mm	54.13in	1375mm	54.13in	N/A	N/A	20.63	1992	1041-2072
m1500	i0059	1500mm	59.06in	1500mm	59.06in	N/A	N/A	22.50	2174	1136-2260
m1625	i0064	1625mm	63.98in	1625mm	63.98in	N/A	N/A	24.38	2355	1230-2449
m1750	i0069	1750mm	68.90in	1750mm	68.90in	N/A	N/A	26.25	2536	1325-2637
m1875	i0074	1875mm	73.82in	1875mm	73.82in	N/A	N/A	28.13	2717	1420-2826
m2000	i0079	2000mm	78.74in	2000mm	78.74in	N/A	N/A	30.00	2898	1514-3014
m2125	i0084	2125mm	83.66in	2125mm	83.66in	N/A	N/A	31.88	3079	1609-3202
m2250	i0089	2250mm	88.58in	2250mm	88.58in	N/A	N/A	33.75	3260	1704-3391
m2375	i0094	2375mm	93.50in	2375mm	93.50in	N/A	N/A	35.63	3441	1798-3579
m2500	i0098	2500mm	98.43in	2500mm	98.43in	N/A	N/A	37.50	3623	1893-3767
m2625	i0103	2625mm	103.35in	2625mm	103.35in	N/A	N/A	39.38	3804	1988-3956
m2750	i0108	2750mm	108.27in	2750mm	108.27in	N/A	N/A	41.25	3985	2082-4144
m2875	i0113	2875mm	113.19in	2875mm	113.19in	N/A	N/A	43.13	4166	2177-4333
m3000	i0118	3000mm	118.11in	3000mm	118.11in	N/A	N/A	45.00	4347	2272-4521
m3125	i0123	3125mm	123.03in	3125mm	123.03in	N/A	N/A	46.88	4528	2366-4709
m3250	i0128	3250mm	127.95in	3250mm	127.95in	N/A	N/A	48.75	4709	2461-4898
m3375	i0133	3375mm	132.87in	3375mm	132.87in	N/A	N/A	50.63	4890	2556-5086
m3500	i0138	3500mm	137.80in	3500mm	137.80in	N/A	N/A	52.50	5072	2650-5274
m3625	i0143	3625mm	142.72in	3625mm	142.72in	N/A	N/A	54.38	5253	2745-5463
m3750	i0148	3750mm	147.64in	3750mm	147.64in	N/A	N/A	56.25	5434	2840-5651
m3875	i0153	3875mm	152.56in	3875mm	152.56in	N/A	N/A	58.13	5615	2934-5839
m4000	i0157	4000mm	157.48in	4000mm	157.48in	N/A	N/A	60.00	5796	3029-6028



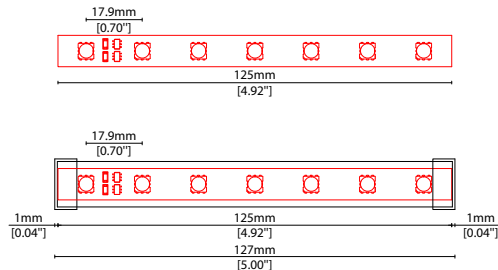
Flexible

FX 4 (IP65)

Length Availability List

KKDC

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
m0127	i0005	127mm	5.00in	125mm	4.92in	2mm	0.08in	1.88	148	119-154
m0252	i0010	252mm	9.92in	250mm	9.84in	2mm	0.08in	3.75	296	237-308
m0377	i0015	377mm	14.84in	375mm	14.76in	2mm	0.08in	5.63	444	356-462
m0502	i0020	502mm	19.76in	500mm	19.69in	2mm	0.08in	7.50	593	474-616
m0627	i0025	627mm	24.69in	625mm	24.61in	2mm	0.08in	9.38	741	593-770
m0752	i0030	752mm	29.61in	750mm	29.53in	2mm	0.08in	11.25	889	711-924
m0877	i0035	877mm	34.53in	875mm	34.45in	2mm	0.08in	13.13	1037	830-1078
m1002	i0039	1002mm	39.45in	1000mm	39.37in	2mm	0.08in	15.00	1185	948-1232
m1127	i0044	1127mm	44.37in	1125mm	44.29in	2mm	0.08in	16.88	1333	1067-1386
m1252	i0049	1252mm	49.29in	1250mm	49.21in	2mm	0.08in	18.75	1481	1185-1541
m1377	i0054	1377mm	54.21in	1375mm	54.13in	2mm	0.08in	20.63	1629	1304-1695
m1502	i0059	1502mm	59.13in	1500mm	59.06in	2mm	0.08in	22.50	1778	1422-1849
m1627	i0064	1627mm	64.06in	1625mm	63.98in	2mm	0.08in	24.38	1926	1541-2003
m1752	i0069	1752mm	68.98in	1750mm	68.90in	2mm	0.08in	26.25	2074	1659-2157
m1877	i0074	1877mm	73.90in	1875mm	73.82in	2mm	0.08in	28.13	2222	1778-2311
m2002	i0079	2002mm	78.82in	2000mm	78.74in	2mm	0.08in	30.00	2370	1896-2465
m2127	i0084	2127mm	83.74in	2125mm	83.66in	2mm	0.08in	31.88	2518	2015-2619
m2252	i0089	2252mm	88.66in	2250mm	88.58in	2mm	0.08in	33.75	2666	2133-2773
m2377	i0094	2377mm	93.58in	2375mm	93.50in	2mm	0.08in	35.63	2814	2252-2927
m2502	i0099	2502mm	98.50in	2500mm	98.43in	2mm	0.08in	37.50	2963	2370-3081
m2627	i0103	2627mm	103.43in	2625mm	103.35in	2mm	0.08in	39.38	3111	2489-3235
m2752	i0108	2752mm	108.35in	2750mm	108.27in	2mm	0.08in	41.25	3259	2607-3389
m2877	i0113	2877mm	113.27in	2875mm	113.19in	2mm	0.08in	43.13	3407	2726-3543
m3002	i0118	3002mm	118.19in	3000mm	118.11in	2mm	0.08in	45.00	3555	2844-3697
m3127	i0123	3127mm	123.11in	3125mm	123.03in	2mm	0.08in	46.88	3703	2963-3851
m3252	i0128	3252mm	128.03in	3250mm	127.95in	2mm	0.08in	48.75	3851	3081-4005
m3377	i0133	3377mm	132.95in	3375mm	132.87in	2mm	0.08in	50.63	3999	3200-4159
m3502	i0138	3502mm	137.87in	3500mm	137.80in	2mm	0.08in	52.50	4148	3318-4313
m3627	i0143	3627mm	142.80in	3625mm	142.72in	2mm	0.08in	54.38	4296	3437-4467
m3752	i0148	3752mm	147.72in	3750mm	147.64in	2mm	0.08in	56.25	4444	3555-4622
m3877	i0153	3877mm	152.64in	3875mm	152.56in	2mm	0.08in	58.13	4592	3674-4776
m4002	i0158	4002mm	157.56in	4000mm	157.48in	2mm	0.08in	60.00	4740	3792-4930



Flexible

FX 4 (IP67)

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
m0127	i0005	127mm	5.00in	125mm	4.92in	2mm	0.08in	1.88	148	119-154
m0252	i0010	252mm	9.92in	250mm	9.84in	2mm	0.08in	3.75	296	237-308
m0377	i0015	377mm	14.84in	375mm	14.76in	2mm	0.08in	5.63	444	356-462
m0502	i0020	502mm	19.76in	500mm	19.69in	2mm	0.08in	7.50	593	474-616
m0627	i0025	627mm	24.69in	625mm	24.61in	2mm	0.08in	9.38	741	593-770
m0752	i0030	752mm	29.61in	750mm	29.53in	2mm	0.08in	11.25	889	711-924
m0877	i0035	877mm	34.53in	875mm	34.45in	2mm	0.08in	13.13	1037	830-1078
m1002	i0039	1002mm	39.45in	1000mm	39.37in	2mm	0.08in	15.00	1185	948-1232
m1127	i0044	1127mm	44.37in	1125mm	44.29in	2mm	0.08in	16.88	1333	1067-1386
m1252	i0049	1252mm	49.29in	1250mm	49.21in	2mm	0.08in	18.75	1481	1185-1541
m1377	i0054	1377mm	54.21in	1375mm	54.13in	2mm	0.08in	20.63	1629	1304-1695
m1502	i0059	1502mm	59.13in	1500mm	59.06in	2mm	0.08in	22.50	1778	1422-1849
m1627	i0064	1627mm	64.06in	1625mm	63.98in	2mm	0.08in	24.38	1926	1541-2003
m1752	i0069	1752mm	68.98in	1750mm	68.90in	2mm	0.08in	26.25	2074	1659-2157
m1877	i0074	1877mm	73.90in	1875mm	73.82in	2mm	0.08in	28.13	2222	1778-2311
m2002	i0079	2002mm	78.82in	2000mm	78.74in	2mm	0.08in	30.00	2370	1896-2465
m2127	i0084	2127mm	83.74in	2125mm	83.66in	2mm	0.08in	31.88	2518	2015-2619
m2252	i0089	2252mm	88.66in	2250mm	88.58in	2mm	0.08in	33.75	2666	2133-2773
m2377	i0094	2377mm	93.58in	2375mm	93.50in	2mm	0.08in	35.63	2814	2252-2927
m2502	i0099	2502mm	98.50in	2500mm	98.43in	2mm	0.08in	37.50	2963	2370-3081
m2627	i0103	2627mm	103.43in	2625mm	103.35in	2mm	0.08in	39.38	3111	2489-3235
m2752	i0108	2752mm	108.35in	2750mm	108.27in	2mm	0.08in	41.25	3259	2607-3389
m2877	i0113	2877mm	113.27in	2875mm	113.19in	2mm	0.08in	43.13	3407	2726-3543
m3002	i0118	3002mm	118.19in	3000mm	118.11in	2mm	0.08in	45.00	3555	2844-3697
m3127	i0123	3127mm	123.11in	3125mm	123.03in	2mm	0.08in	46.88	3703	2963-3851
m3252	i0128	3252mm	128.03in	3250mm	127.95in	2mm	0.08in	48.75	3851	3081-4005
m3377	i0133	3377mm	132.95in	3375mm	132.87in	2mm	0.08in	50.63	3999	3200-4159
m3502	i0138	3502mm	137.87in	3500mm	137.80in	2mm	0.08in	52.50	4148	3318-4313
m3627	i0143	3627mm	142.80in	3625mm	142.72in	2mm	0.08in	54.38	4296	3437-4467
m3752	i0148	3752mm	147.72in	3750mm	147.64in	2mm	0.08in	56.25	4444	3555-4622
m3877	i0153	3877mm	152.64in	3875mm	152.56in	2mm	0.08in	58.13	4592	3674-4776
m4002	i0158	4002mm	157.56in	4000mm	157.48in	2mm	0.08in	60.00	4740	3792-4930

Flexible

FX 4 Accessories

KKDC

MOUNTING OPTIONS

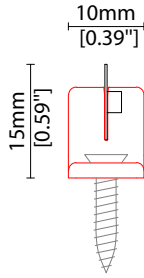
Note: Accessories are to be ordered separately with corresponding code shown below.



KKCP-07

Side clip
(allow 4 per metre/40in)

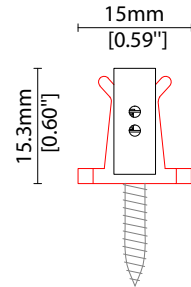
White plastic



KKCP-08

IP65 side clip
(allow 4 per metre/40in)

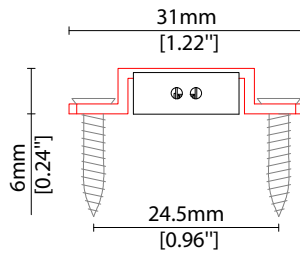
Clear plastic



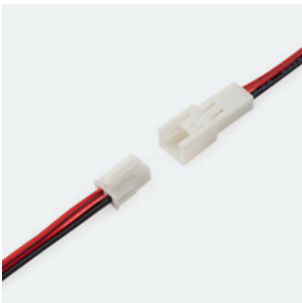
KKBK-14

IP65 silicone bracket
(allow 4 per metre/40in)

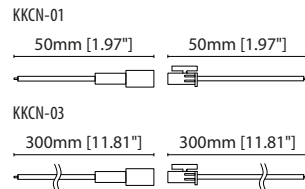
Translucent silicone



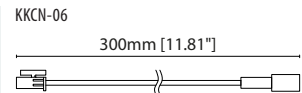
CONNECTORS



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



Flexible

FX 4 Accessories

KKDC

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)



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)



FX Driver/PSU Options



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
	CEN-60-24	KKDL-02/03	90-295V	24V	2.5A	60W	100-0.1	IP67/IP20
DALI	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