

Linear

# LINI-S Glow R209 Fixture Guide

# KKDÖ

Indoor | Surface | Dynamic output up to 1130lm/m (345lm/ft)

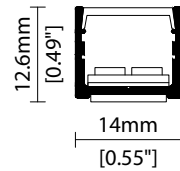


## Key applications

- ✓ Architectural detail
- ✓ Cabinet & furniture
- ✓ Cove lighting
- ✓ Direct lighting
- ✓ Display case
- ✓ Hand rail
- ✓ Interior
- ✓ Mirror back lighting
- ✓ Shelving display
- ✓ Special effect

## Key features

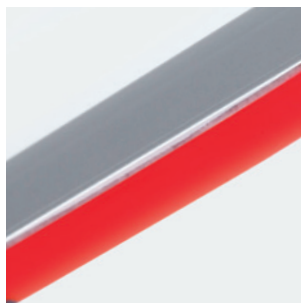
- ✓ Custom lengths
- ✓ Constant Voltage (CV)
- ✓ Diffusion: homogenous
- ✓ Direct view
- ✓ Extensive CCT range
- ✓ Illuminated ends
- ✓ IP40 dry area
- ✓ LEDmix dynamic white



## MOUNTING METHODS



KKCP-02 Standard clip



3M tape mounting

## Warm dim (Dynamic white)

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

Linear

# LINI-S Glow R209

## Specification sheet



<b>Dimensions</b>	H12/W14/L94-2011mm (H0.47/W0.55/L3.70-79.17in)
<b>PCB Cut-point</b>	41.7mm increment/2000mm max (1.64in increment/78.74in max)
<b>LED Pitch</b>	6.95mm-144LED/m (0.27in - 44LED/ft)
<b>Chip</b>	<b>s-line</b> <b>k-line</b>
<b>Cover/Optics</b>	Diffused (110°)
<b>CCT</b>	<b>s-line:</b> 1900K/2100K/2300K/2500K/2700K/3000K/3500K/4000K/5000K <b>k-line:</b> 1900K/2100K/2300K/2500K/2700K/3000K/3500K/4000K/5000K
<b>LED binning</b>	<b>s-line:</b> 2-step MacAdam ellipse <b>k-line:</b> 3-step MacAdam ellipse
<b>CRI</b>	≥ 90
<b>Lifetime</b>	50,000 hours @ 25°C (50,000 hours @ 77°F)
<b>Operating temp</b>	T <sub>a</sub> = -25 to 45°C (T <sub>C</sub> max = 79.1°C) T <sub>a</sub> = -13 to 113°F (T <sub>C</sub> max = 174.4 °F)
<b>IP Rating</b>	IP40
<b>Finish</b>	Silver anodised
<b>Mounting</b>	Self-adhesive 3M tape / Clips
<b>Power feed</b>	Hardwire tails or male/female connectors
<b>Control</b>	0-10V/1-10V/DMX/DALI



### LED Grading Key

#### Exclusive Grade

<b>s-line*</b>	*KKDC tuned CCT range
2-step CCT range	

#### Base Grade

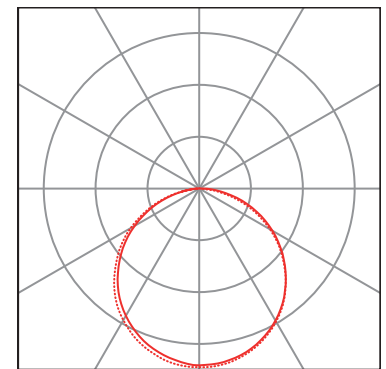
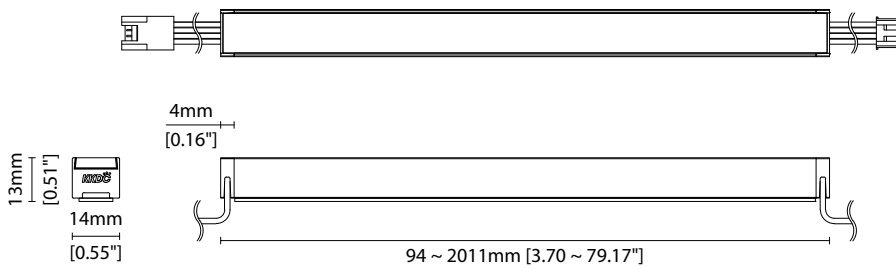
<b>k-line</b>	3-step commercial range Energy Star CCTs
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<b>Power consumption</b>	<b>Supply voltage</b>	<b>Supply current</b>
25W/m (7.62W/ft)	24V DC	1.04A/m (0.32A/ft)

### Performance Data (3000K)

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

		<b>Diffused Cover</b>				<b>CRI</b>	<b>R9</b>	<b>Rf</b>	<b>Rg</b>
<b>s-line</b>	1130lm/m (345lm/ft) 45lm/w					93	63	-	-
<b>k-line</b>	1030lm/m (314lm/ft) 41lm/W					92	60	-	-



Diffused Cover  
— C0 / C180      cd / 1000 lm      - - - C90 / C270


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

# LINI-S Glow R209

## Code Table



### FIXTURE

Model	Finish	Cover	Grade <sup>1</sup>	LED	Colour (CCT)	Length Availability <sup>2</sup>	IP	Cable Length	Power Feed <sup>3</sup>	Input																	
LINI-S Glow	SG	Silver Anodised	SA	Diffused	C		R209	R209	1900K	19	m	94.4-2011mm 41.7mm increments	IP40	40	50mm/ 1.97"	0050	Single no sheath tail	S00X	DC 24V	g							
									2100K	21								D00X									
									2300K	23								S20X									
									2500K	25	i	3.72-79.17in 1.64in increments						300mm/ 11.81"			0300	Single no sheath IP20 connector					
									2700K	27																	
									3000K	30													(Specify length code OR total run length)	1000mm/ 39.37"	1000	Double no sheath IP20 connector	D20X
									3500K	35																	
									4000K	40																	
									5000K	50																	

<sup>1</sup> Refer to **LED Grading Key** on **Specification sheet** page

<sup>2</sup> Refer to **Length Availability List** or enter total run length instead of length code

<sup>3</sup> Refer to **Power Feed Options** on **Options** pages

<sup>4</sup> LEDmix requires two colour temperature choices

### Code Example:

SG	-	SA	-	C	-	k	-	R209	-	2150	-	m	511	-	40	-	0300	-	D00X	-	g
LINI-S Glow		Silver Anodised		Diffused				R209		2100K+5000K		511mm		IP40		300mm/11.81"		Double no sheath tail		DC 24V	

### ACCESSORIES

#### Mounting Accessories

KKCP-02	Clip (1no.)
KKCP-52	Clip (500no.)

\* Refer to **Mounting accessories** on **Accessories** pages

#### Connection Accessories

KKCN-35	4 PIN LEDmix male & female 50mm/1.97" pair
KKCN-36	4 PIN LEDmix male & female 300mm/11.81" pair
KKCN-37	4 PIN LEDmix 300mm/11.81" 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	A030	2010	613	30	9.14	LINI-S Glow A030	88-2011 (3.46-79.17in)	38.46mm (3.46in)
Warm Dim/Dynamic White	R209	1030	314	25	7.62	LINI-S Glow R209	94.4-2011mm (3.70-79.17in)	41.7mm (1.64in)
RGBW	R201	604	184	20	6.1	LINI-S Glow RGBW	136-2011mm (5.35-79.17in)	62.5mm (2.46in)

\* Performance data: s/k-line, diffused cover, 2100K + 5000K

# LINE-S Glow R209

## Length Availability List



Length Code		Fixture Length <sup>1</sup>		LED Strip <sup>2</sup>		End Cap Dimension <sup>3</sup>		Wattage (W)	Output (lm)
Metric	Imperial(US)	Metric	Imperial(US)	Metric	Imperial(US)	Metric	Imperial(US)		3000K (Test Data)
m0094	i0004	94mm	3.70in	83mm	3.27in	8mm	0.31in	2.08	85
m0136	i0005	136mm	5.34in	125mm	4.91in	8mm	0.31in	3.12	128
m0177	i0007	177mm	6.98in	166mm	6.55in	8mm	0.31in	4.16	170
m0219	i0009	219mm	8.62in	208mm	8.19in	8mm	0.31in	5.20	213
m0261	i0010	261mm	10.26in	250mm	9.83in	8mm	0.31in	6.24	256
m0302	i0012	302mm	11.90in	291mm	11.47in	8mm	0.31in	7.28	299
m0344	i0014	344mm	13.54in	333mm	13.11in	8mm	0.31in	8.33	341
m0386	i0015	386mm	15.18in	375mm	14.75in	8mm	0.31in	9.37	384
m0427	i0017	427mm	16.82in	416mm	16.39in	8mm	0.31in	10.41	427
m0469	i0018	469mm	18.46in	458mm	18.03in	8mm	0.31in	11.45	469
m0511	i0020	511mm	20.10in	500mm	19.67in	8mm	0.31in	12.49	512
m0552	i0022	552mm	21.75in	541mm	21.31in	8mm	0.31in	13.53	555
m0594	i0023	594mm	23.39in	583mm	22.95in	8mm	0.31in	14.58	598
m0636	i0025	636mm	25.03in	625mm	24.59in	8mm	0.31in	15.62	640
m0677	i0027	677mm	26.67in	666mm	26.23in	8mm	0.31in	16.66	683
m0719	i0028	719mm	28.31in	708mm	27.87in	8mm	0.31in	17.70	726
m0761	i0030	761mm	29.95in	750mm	29.51in	8mm	0.31in	18.74	768
m0802	i0032	802mm	31.59in	791mm	31.15in	8mm	0.31in	19.78	811
m0844	i0033	844mm	33.23in	833mm	32.80in	8mm	0.31in	20.83	854
m0886	i0035	886mm	34.87in	875mm	34.44in	8mm	0.31in	21.87	897
m0927	i0037	927mm	36.51in	916mm	36.08in	8mm	0.31in	22.91	939
m0969	i0038	969mm	38.15in	958mm	37.72in	8mm	0.31in	23.95	982
m1011	i0040	1011mm	39.79in	1000mm	39.36in	8mm	0.31in	25.00	1025
m1052	i0041	1052mm	41.43in	1041mm	41.00in	8mm	0.31in	26.03	1067
m1094	i0043	1094mm	43.07in	1083mm	42.64in	8mm	0.31in	27.08	1110
m1136	i0045	1136mm	44.71in	1125mm	44.28in	8mm	0.31in	28.12	1153
m1177	i0046	1177mm	46.35in	1166mm	45.92in	8mm	0.31in	29.16	1195
m1219	i0048	1219mm	47.99in	1208mm	47.56in	8mm	0.31in	30.20	1238
m1261	i0050	1261mm	49.63in	1250mm	49.20in	8mm	0.31in	31.24	1281
m1302	i0051	1302mm	51.27in	1291mm	50.84in	8mm	0.31in	32.28	1324
m1344	i0053	1344mm	52.91in	1333mm	52.48in	8mm	0.31in	33.33	1366
m1386	i0055	1386mm	54.55in	1375mm	54.12in	8mm	0.31in	34.37	1409
m1427	i0056	1427mm	56.19in	1416mm	55.76in	8mm	0.31in	35.41	1452
m1469	i0058	1469mm	57.83in	1458mm	57.40in	8mm	0.31in	36.45	1494
m1511	i0059	1511mm	59.48in	1500mm	59.04in	8mm	0.31in	37.49	1537
m1552	i0061	1552mm	61.12in	1541mm	60.68in	8mm	0.31in	38.53	1580
m1594	i0063	1594mm	62.76in	1583mm	62.32in	8mm	0.31in	39.58	1623
m1636	i0064	1636mm	64.40in	1625mm	63.96in	8mm	0.31in	40.62	1665
m1677	i0066	1677mm	66.04in	1666mm	65.60in	8mm	0.31in	41.66	1708
m1719	i0068	1719mm	67.68in	1708mm	67.24in	8mm	0.31in	42.70	1751
m1761	i0069	1761mm	69.32in	1750mm	68.88in	8mm	0.31in	43.74	1793
m1802	i0071	1802mm	70.96in	1791mm	70.52in	8mm	0.31in	44.78	1836
m1844	i0073	1844mm	72.60in	1833mm	72.17in	8mm	0.31in	45.83	1879

# LINI-S Glow R209

## Length Availability List

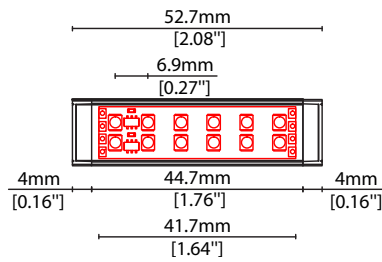


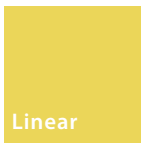
Length Code		Fixture Length <sup>1</sup>		LED Strip <sup>2</sup>		End Cap Dimension <sup>3</sup>		Wattage (W)	Output (lm)
Metric	Imperial(US)	Metric	Imperial(US)	Metric	Imperial(US)	Metric	Imperial(US)		3000K (Test Data)
m1886	i0074	1886mm	74.24in	1875mm	73.81in	8mm	0.31in	46.87	1922
m1927	i0076	1927mm	75.88in	1916mm	75.45in	8mm	0.31in	47.91	1964
m1969	i0078	1969mm	77.52in	1958mm	77.09in	8mm	0.31in	48.95	2007
m2011	i0079	2011mm	79.16in	2000mm	78.73in	8mm	0.31in	50.00	2050

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

<sup>2</sup> Actual length of PCB strip

<sup>3</sup> Actual length of 2x end caps





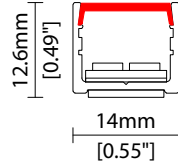
# LINI-S Glow R209

## Options



### COVER/LENS OPTIONS

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

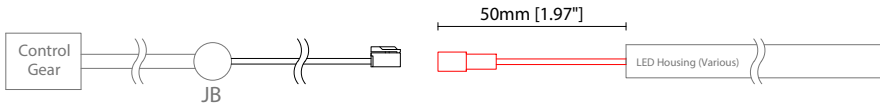


C Diffused cover  
W14/H12.6mm (W0.55/H0.49")

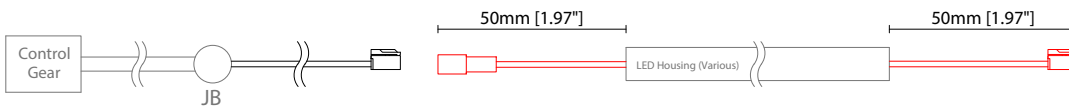


### POWER FEED OPTIONS

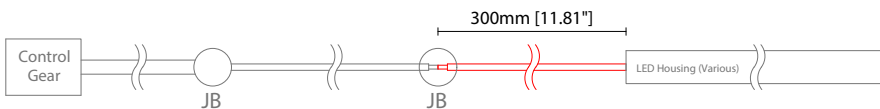
0050 S20X 50mm (1.97") Single no sheath IP20 connector



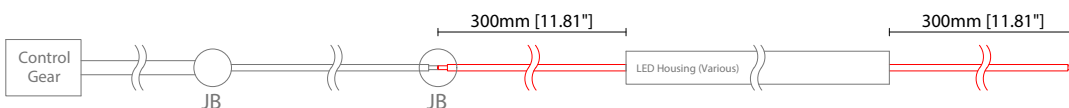
0050 D20X 50mm (1.97") Double no sheath IP20 connector



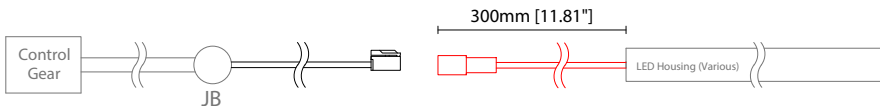
0300 S00X 300mm (11.81") Single no sheath tail



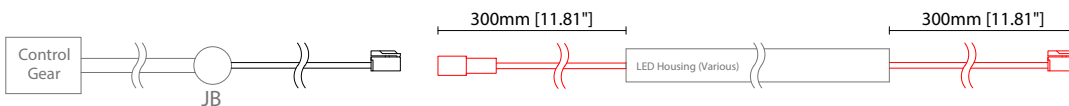
0300 D00X 300mm (11.81") Double no sheath tail



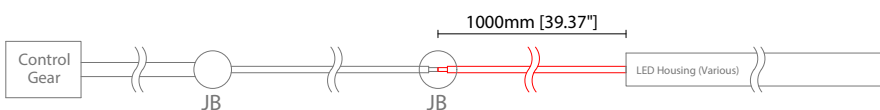
0300 S20X 300mm (11.81") Single no sheath IP20 connector



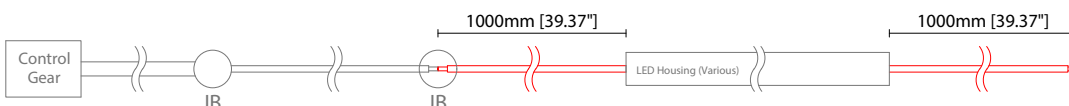
0300 D20X 300mm (11.81") Double no sheath IP20 connector



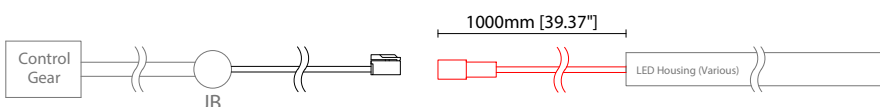
1000 S00X 1000mm (39.37") Single no sheath tail



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



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



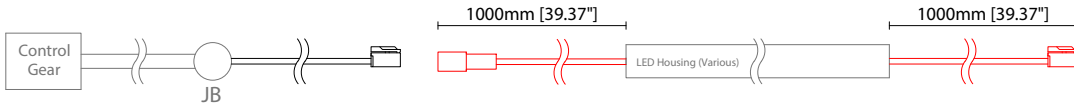
#### Key

Control Gear Power supply, sub-controllers & control systems

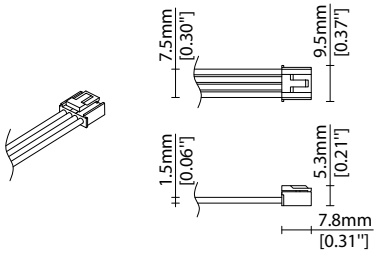
JB Junction box / cable connection

### POWER FEED OPTIONS (CONTINUED)

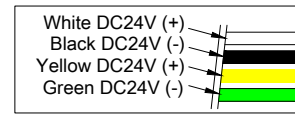
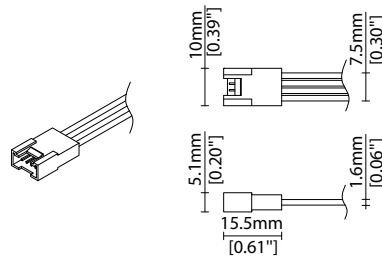
**1000 D20X 1000mm (39.37") Double no sheath IP20 connector**



**4 Pin LEDmix Female Connector**



**4 Pin LEDmix Male Connector**

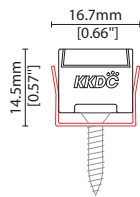


**Key**

- 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.

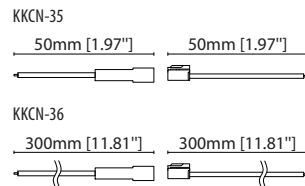
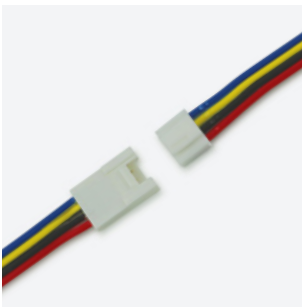


**KKCP-02** (1no.)  
**KKCP-52** (500no.)

Clip (allow 3 per metre/40in)  
 S/Steel finish

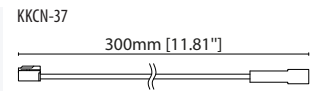
L25/W16.7/H15.5mm  
 (L0.98/W0.66/H0.61")

### POWER FEED



**KKCN-35** 50mm (1.97in) pair  
**KKCN-36** 300mm (11.81in) pair

4 PIN LEDmix male + female  
 connector set (R209 strip only)  
 – 22 AWG



**KKCN-37**

4 PIN LEDmix 300mm (11.81in)  
 extension lead (R209 strip only)  
 – 22 AWG

### 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

# LINI-S Glow R209 Accessories

# KKDC

## KKDC CONTROL (CONTINUED)

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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

<sup>1</sup> The items shown above cover the most frequently used specification but does not exhaust the possible options

<sup>2</sup> 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

<sup>3</sup> Electrical shop drawing will include detailed information of PSU and relevant control drivers

<sup>4</sup> Cut sheets are available on the controls section of [www.kkdc.lighting](http://www.kkdc.lighting) or upon request