

Linear LED modules 550lm 18V per 1ft 2C

Product description

- Long life-time
- Built-in, constant current LED module
- Re-workable push-in terminals enabling easy connection
- Compliance and approval: CE, ENEC
- 2C - two connectors for series system, also recognized as a high voltage system - non-SELV
- Other CCT and CRI on request



LinLED CRI 80 S8 G5

Product name	Ordering code	Colour temperature [K]	Current nominal If nom [mA]	Luminous flux ¹ Φ [lm]	Useful luminous flux ² [lm]	Voltage - Vf [V]	Power ¹ P [W]	Efficacy ¹ [lm/W]	Current minimum If min ³ [mA]	Current maximum If max [mA]	Energy Efficiency Class
LinLED 140x20mm 275lm 830 2C 9V S8 G5	1010 157 13946	3000	160	253	260	8	1,3	198	30	600	B
LinLED 280x20mm 550lm 830 2C 18V S8 G5	1010 157 14046		160	506	521	16	2,6	198	30	600	B
LinLED 560x20mm 1100lm 830 2C 36V S8 G5	1010 157 14146		160	1011	1041	32	5,1	198	30	600	B
LinLED 140x20mm 275lm 840 2C 9V S8 G5	1010 157 14246		160	267	275	8	1,3	209	30	600	B
LinLED 280x20mm 550lm 840 2C 18V S8 G5	1010 157 14346	4000	160	534	550	16	2,6	209	30	600	B
LinLED 560x20mm 1100lm 840 2C 36V S8 G5	1010 157 14446		160	1069	1100	32	5,1	209	30	600	B

LinLED CRI 80 CJ G4

Product name	Ordering code	Colour temperature [K]	Current nominal If nom [mA]	Luminous flux ¹ Φ [lm]	Useful luminous flux ² [lm]	Voltage - Vf [V]	Power ¹ P [W]	Efficacy ¹ [lm/W]	Current minimum If min ³ [mA]	Current maximum If max [mA]	Energy Efficiency Class
LinLED 140x20mm 275lm 830 2C 9V CJ G4	1010 137 34046	3000	175	270	277	8	1,4	193	30	900	C
LinLED 280x20mm 550lm 830 2C 18V CJ G4	1010 137 34146		175	540	554	16	2,7	193	30	900	C
LinLED 560x20mm 1100lm 830 2C 36V CJ G4	1010 137 34246		175	1080	1107	32	5,4	193	30	900	C
LinLED 140x20mm 275lm 840 2C 9V CJ G4	1010 137 34346		175	281	288	8	1,4	201	30	900	B
LinLED 280x20mm 550lm 840 2C 18V CJ G4	1010 137 34446	4000	175	561	576	16	2,7	201	30	900	B
LinLED 560x20mm 1100lm 840 2C 36V CJ G4	1010 137 34546		175	1123	1151	32	5,4	201	30	900	B

LinLED CRI 80 CN G3

Product name	Ordering code	Colour temperature [K]	Current nominal If nom [mA]	Luminous flux ¹ Φ [lm]	Useful luminous flux ² [lm]	Voltage - Vf [V]	Power ¹ P [W]	Efficacy ¹ [lm/W]	Current minimum If min ³ [mA]	Current maximum If max [mA]	Energy Efficiency Class
LinLED 140x20mm 275lm 830 2C 9V CN G3	1010 147 29746	3000	175	273	282	8,1	1,5	182	30	450	C
LinLED 280x20mm 550lm 830 2C 18V CN G3	1010 147 29846		175	546	565	16	3,0	182	30	450	C
LinLED 560x20mm 1100lm 830 2C 36V CN G3	1010 147 29946		175	1091	1129	32	6,0	182	30	450	C
LinLED 140x20mm 275lm 840 2C 9V CN G3	1010 147 30046		175	288	298	8,1	1,5	192	30	450	C
LinLED 280x20mm 550lm 840 2C 18V CN G3	1010 147 30146	4000	175	576	596	16	3,0	192	30	450	C
LinLED 560x20mm 1100lm 840 2C 36V CN G3	1010 147 30246		175	1151	1192	32	6,0	192	30	450	C

LinLED CRI 80 LG G2

Product name	Ordering code	Colour temperature [K]	Current nominal If nom [mA]	Luminous flux ¹ Φ [lm]	Useful luminous flux ² [lm]	Voltage - Vf [V]	Power ¹ P [W]	Efficacy ¹ [lm/W]	Current minimum If min ³ [mA]	Current maximum If max [mA]	Energy Efficiency Class
LinLED 140x20mm 275lm 830 2C 9V LG G2	1010 147 29146	3000	190	271	279	8,3	1,6	172	30	600	C
LinLED 280x20mm 550lm 830 2C 18V LG G2	1010 147 29246		190	542	559	17	3,1	172	30	600	C
LinLED 560x20mm 1100lm 830 2C 36V LG G2	1010 147 29346		190	1083	1117	33	6,3	172	30	600	C
LinLED 140x20mm 275lm 840 2C 9V LG G2	1010 147 29446		190	288	297	8,3	1,6	183	30	600	C
LinLED 280x20mm 550lm 840 2C 18V LG G2	1010 147 29546	4000	190	575	593	17	3,1	183	30	600	C
LinLED 560x20mm 1100lm 840 2C 36V LG G2	1010 147 29646		190	1151	1187	33	6,3	183	30	600	C

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LinLED CRI 90 S8 K G7

Product name	Ordering code	Colour temperature [K]	Current nominal If nom [mA]	Luminous flux ¹ Φ [lm]	Useful luminous flux ² [lm]	Voltage Vf [V]	Power ¹ P [W]	Efficacy ¹ [lm/W]	Current minimum If min ³ [mA]	Current maximum If max [mA]	Energy Efficiency Class
LinLED 140x20mm 275lm 930 2C 9V S8 K G7	1010 147 31546	3000	175	273	278	8	1.4	195	30	450	C
LinLED 280x20mm 550lm 930 2C 18V S8 K G7	1010 147 31646		175	546	556	16	2.8	195	30	450	C
LinLED 560x20mm 1100lm 930 2C 36V S8 K G7	1010 147 31746		175	1092	1113	8	5.6	195	30	450	C
LinLED 140x20mm 275lm 940 2C 9V S8 K G7	1010 147 31846		175	289	294	8	1.4	206	30	450	B
LinLED 280x20mm 550lm 940 2C 18V S8 K G7	1010 147 31946	4000	175	577	588	16	2.8	206	30	450	B
LinLED 560x20mm 1100lm 940 2C 36V S8 K G7	1010 147 32046		175	1155	1176	32	5.6	206	30	450	B

LinLED CRI 90 S5 K G6

Product name	Ordering code	Colour temperature [K]	Current nominal If nom [mA]	Luminous flux ¹ Φ [lm]	Useful luminous flux ² [lm]	Voltage Vf [V]	Power ¹ P [W]	Efficacy ¹ [lm/W]	Current minimum If min ³ [mA]	Current maximum If max [mA]	Energy Efficiency Class
LinLED 140x20mm 275lm 930 2C 9V S5 K G6	1010 147 45046	3000	180	272	277	8	1.5	187	30	450	C
LinLED 280x20mm 550lm 930 2C 18V S5 K G6	1010 147 45146		180	544	554	16	2.9	187	30	450	C
LinLED 560x20mm 1100lm 930 2C 36V S5 K G6	1010 147 45246		180	1087	1107	32	5.8	187	30	450	C
LinLED 140x20mm 275lm 940 2C 9V S5 K G6	1010 147 45346		180	285	291	8	1.5	197	30	450	C
LinLED 280x20mm 550lm 940 2C 18V S5 K G6	1010 147 45446	4000	180	571	582	16	2.9	197	30	450	B
LinLED 560x20mm 1100lm 940 2C 36V S5 K G6	1010 147 45546		180	1142	1163	32	5.8	197	30	450	B

LinLED CRI 90 EH1.1 G3

Product name	Ordering code	Colour temperature [K]	Current nominal If nom [mA]	Luminous flux ¹ Φ [lm]	Useful luminous flux ² [lm]	Voltage Vf [V]	Power ¹ P [W]	Efficacy ¹ [lm/W]	Current minimum If min ³ [mA]	Current maximum If max [mA]	Energy Efficiency Class
LinLED 140x20mm 275lm 930 2C 9V EH1.1 G3	1010 117 33946	3000	195	270	278	8.5	1.7	163	30	450	D
LinLED 280x20mm 550lm 930 2C 18V EH1.1 G3	1010 117 34846		195	539	556	17	3.3	163	30	450	D
LinLED 560x20mm 1100lm 930 2C 36V EH1.1 G3	1010 117 35146		195	1079	1111	34	6.6	163	30	450	D
LinLED 140x20mm 275lm 940 2C 9V EH1.1 G3	1010 117 34046		195	287	295	8.5	1.7	173	30	450	C
LinLED 280x20mm 550lm 940 2C 18V EH1.1 G3	1010 117 34946	4000	195	573	590	17	3.3	173	30	450	C
LinLED 560x20mm 1100lm 940 2C 36V EH1.1 G3	1010 117 35246		195	1146	1181	34	6.6	173	30	450	C

¹At nominal current and Tp²At nominal current and 25°C³It is recommended not to operate below minimum current in order to avoid un-even brightness

Tolerance range for optical and electrical ±10%

Temperature & humidity

Specification item	Unit	Value
Tp	[°C]	45
Tp rated	[°C]	65
Tc	[°C]	85
Relative humidity (non-condensing)	[%]	5 ... 85
Storage ambient temperature	[°C]	-25 ... +85
Storage relative humidity (non-condensing)	[%]	5 ... 85

Tp - Temperature related to the performance parameters of the LED modules

Tp rated - Maximum operating temperature to which the rated performance characteristics are declared

Tc - Highest permissible value for safe operation

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Technical data

Specification item	Unit	Value
Classification acc. to IEC 62031		built-in
Working voltage	[Vdc]	350
Beam angle	[deg]	120
Initial color consistency	[SDCM]	3
Photobiological safety		RG1 unlimited

Color coordinates

According to CIE 1931

Specification item	CIE _x	CIE _y
2700K	0.4578	0.4101
3000K	0.4338	0.4030
4000K	0.3818	0.3797
6500K	0.3123	0.3282

Certificates & standards

Specification item	Compliant
ENEC	Yes
CE	Yes
RoHS	Yes
REACH	Yes
IP rating	No IP rating

Lumen maintenance

Forward current	Tp temp.	L70 [h]		L80 [h]		L90 [h]	
		B50	B10	B50	B10	B50	B10
If nom	45°C>100 000	>100 000	>100 000	>100 000	>100 000	>100 000	>100 000
	55°C>100 000	>100 000	>100 000	>100 000	>100 000	>100 000	>100 000
	65°C>100 000	>100 000	>100 000	>100 000	>100 000	>100 000	>100 000
	75°C>100 000	>100 000	>100 000	>100 000	>100 000	>100 000	98 000
	85°C>100 000	>100 000	>100 000	>100 000	>100 000	81 000	73 000
If max	45°C>100 000	>100 000	92 000	87 000	45 000	42 000	
	55°C>100 000	>100 000	92 000	87 000	45 000	42 000	
	65°C>100 000	>100 000	92 000	87 000	45 000	42 000	
	75°C>100 000	>100 000	92 000	87 000	45 000	42 000	
	85°C>100 000	>100 000	92 000	87 000	45 000	42 000	

Calculated data based on LM80 LED data (12 000h)

for S8 K G7, S7 K G7, S5 K G6, S8 G5

Forward current	Tp temp.	L70 [h]		L80 [h]		L90 [h]	
		B50	B10	B50	B10	B50	B10
If nom	45°C>120 000	>120 000	>120 000	>120 000	>120 000	109 000	106 000
	55°C>120 000	>120 000	>120 000	>120 000	>120 000	87 000	85 000
	65°C>120 000	>120 000	>120 000	>120 000	>120 000	71 000	69 000
	75°C>120 000	>120 000	116 000	114 000	59 000	57 000	
	85°C>120 000	>120 000	98 000	96 000	49 000	47 000	
If max	45°C>120 000	>120 000	85 000	82 000	45 000	44 000	
	55°C	108 000	104 000	69 000	68 000	36 000	35 000
	65°C	90 000	87 000	57 000	56 000	29 000	29 000
	75°C	75 000	74 000	48 000	47 000	24 000	24 000
	85°C	64 000	63 000	41 000	40 000	20 000	20 000

Calculated data based on LM80 LED data (20 000h)

for CJ G4, CN G3

Forward current	Tp temp.	L70 [h]		L80 [h]		L90 [h]	
		B50	B10	B50	B10	B50	B10
If nom	45°C>102 000	>102 000	>102 000	>102 000	>102 000	>102 000	>102 000
	55°C>102 000	>102 000	>102 000	>102 000	>102 000	>102 000	>102 000
	65°C>102 000	>102 000	>102 000	>102 000	>102 000	89 000	88 000
	75°C>102 000	>102 000	>102 000	>102 000	>102 000	75 000	74 000
	85°C>102 000	>102 000	>102 000	>102 000	>102 000	64 000	63 000
If max	45°C>102 000	>102 000	>102 000	>102 000	>102 000	>102 000	>102 000
	55°C>102 000	>102 000	>102 000	>102 000	>102 000	90 000	89 000
	65°C>102 000	>102 000	>102 000	>102 000	>102 000	77 000	76 000
	75°C>102 000	>102 000	>102 000	>102 000	>102 000	65 000	64 000
	85°C>102 000	>102 000	>102 000	>102 000	>102 000	55 000	54 000

Reported data based on LM80 LED data (17 000h)

for EH1.1 G3

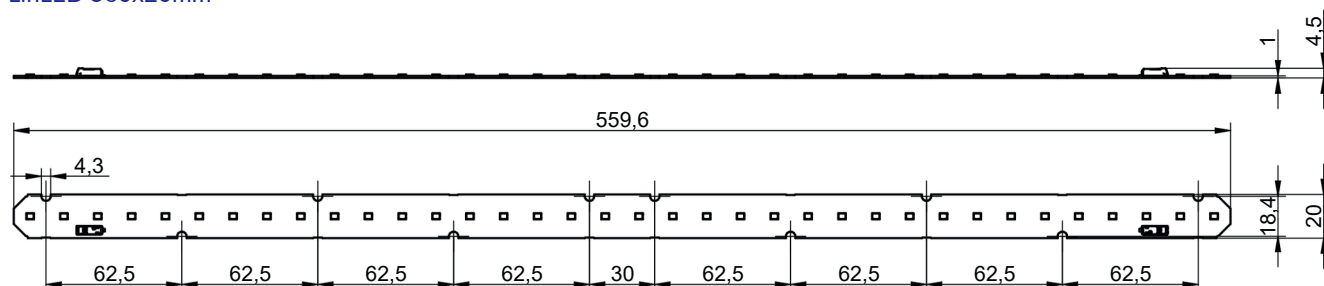
Forward current	Tp temp.	L70 [h]		L80 [h]		L90 [h]	
		B50	B10 >72	B50	B10	B50	B10
If nom	45°C	>72 000	000 >72	>72 000	>72 000	>72 000	>72 000
	55°C	>72 000	000 >72	>72 000	>72 000	>72 000	>72 000
	65°C	>72 000	000 >72	>72 000	>72 000	>72 000	>72 000
	75°C	>72 000	000 >72	>72 000	>72 000	>72 000	>72 000
	85°C	>72 000	000 >72	>72 000	>72 000	>72 000	>72 000
If max	45°C	>72 000	000 >72	67 000	62 000	30 000	29 000
	55°C	>72 000	000 >72	66 000	61 000	30 000	28 000
	65°C	>72 000	000 >72	65 000	60 000	29 000	27 000
	75°C	>72 000	000 >72	65 000	59 000	29 000	26 000
	85°C	>72 000	000	64 000	58 000	28 000	26 000

Calculated data based on LM80 LED data (12 000h)

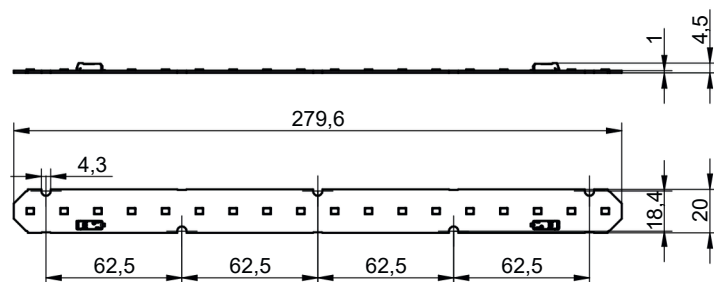
Linear LED modules 550lm 18V per 1ft 2C

Dimensions

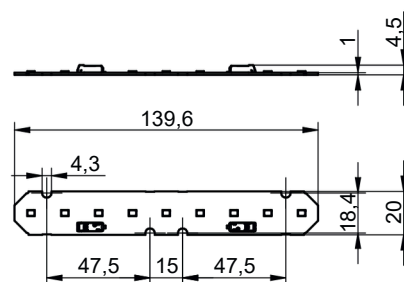
LinLED 560x20mm



LinLED 280x20mm



LinLED 140x20mm



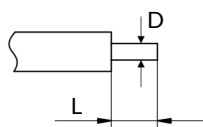
Mounting

LED Modules cannot be exposed to tensile or compressive stresses. For this purpose it is necessary that the modules are assembled to a flat surface by only rounded head screws. Additionally plastic flat washer should be used to ensure creepage distance between screw's head and surface of the pcb. Max. torque for fixing: 0,5Nm.

LED modules are sensitive to electrostatic discharge (ESD). Follow safety regulations according to IEC 61340-5-1.

Wiring

Wire cross section and strip length:



D - wire cross section (solid and flexible wires)	Min	Max
	0.2mm ²	0.75mm ²
	AWG 24	AWG 18

L - strip length	Min	Max
	8mm	9mm

Opening for the release of wires from the top with release pin Electroterminal art. 881 167 884:



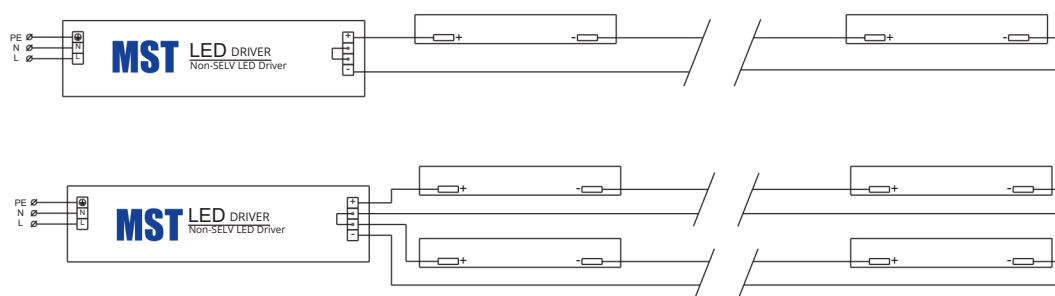
Linear LED modules 550lm 18V per 1ft 2C

Connections

Max number of modules	Unit	Series	Parallel
LinLED 140x20mm	[pcs	36	-
LinLED 280x20mm	]	18	-
LinLED 560x20mm	[pcs	9	-

You can combine different lengths of LED modules so that the maximum length does not exceed 5040mm

Wiring for series connection system (2C)



Energy Label / EPREL database

To obtain Energy Label for this product visit <https://eprel.ec.europa.eu/> and enter model identifier

Model identifier consists of 10 digits XXXX XXX XXX. It is printed directly on the LED module or on product label. This is the number you can see in EPREL database.

Ordering code consist of 12 digits XXXX XXX XXX46. Additional last two digits means packaging of the product.

Ordering codes

Product name	Ordering code	Pieces per box	Pieces per pallet	Box dimensions [mm]
LinLED 140x20mm 275lm 830 2C 9V S8 G5	1010 157 13946	204	48960	150 x 266 x 83
LinLED 280x20mm 550lm 830 2C 18V S8 G5	1010 157 14046	204	24480	300 x 266 x 83
LinLED 560x20mm 1100lm 830 2C 36V S8 G5	1010 157 14146	204	12240	603 x 266 x 83
LinLED 140x20mm 275lm 840 2C 9V S8 G5	1010 157 14246	204	48960	150 x 266 x 83
LinLED 280x20mm 550lm 840 2C 18V S8 G5	1010 157 14346	204	24480	300 x 266 x 83
LinLED 560x20mm 1100lm 840 2C 36V S8 G5	1010 157 14446	204	12240	603 x 266 x 83
LinLED 140x20mm 275lm 830 2C 9V CJ G4	1010 137 34046	204	48960	150 x 266 x 83
LinLED 280x20mm 550lm 830 2C 18V CJ G4	1010 137 34146	204	24480	300 x 266 x 83
LinLED 560x20mm 1100lm 830 2C 36V CJ G4	1010 137 34246	204	12240	603 x 266 x 83
LinLED 140x20mm 275lm 840 2C 9V CJ G4	1010 137 34346	204	48960	150 x 266 x 83
LinLED 280x20mm 550lm 840 2C 18V CJ G4	1010 137 34446	204	24480	300 x 266 x 83
LinLED 560x20mm 1100lm 840 2C 36V CJ G4	1010 137 34546	204	12240	603 x 266 x 83
LinLED 140x20mm 275lm 830 2C 9V LG G2	1010 147 29146	204	48960	150 x 266 x 83
LinLED 280x20mm 550lm 830 2C 18V LG G2	1010 147 29246	204	24480	300 x 266 x 83
LinLED 560x20mm 1100lm 830 2C 36V LG G2	1010 147 29346	204	12240	603 x 266 x 83
LinLED 140x20mm 275lm 840 2C 9V LG G2	1010 147 29446	204	48960	150 x 266 x 83
LinLED 280x20mm 550lm 840 2C 18V LG G2	1010 147 29546	204	24480	300 x 266 x 83
LinLED 560x20mm 1100lm 840 2C 36V LG G2	1010 147 29646	204	12240	603 x 266 x 83
LinLED 140x20mm 275lm 830 2C 9V CN G3	1010 147 29746	204	48960	150 x 266 x 83
LinLED 280x20mm 550lm 830 2C 18V CN G3	1010 147 29846	204	24480	300 x 266 x 83
LinLED 560x20mm 1100lm 830 2C 36V CN G3	1010 147 29946	204	12240	603 x 266 x 83
LinLED 140x20mm 275lm 840 2C 9V CN G3	1010 147 30046	204	48960	150 x 266 x 83
LinLED 280x20mm 550lm 840 2C 18V CN G3	1010 147 30146	204	24480	300 x 266 x 83
LinLED 560x20mm 1100lm 840 2C 36V CN G3	1010 147 30246	204	12240	603 x 266 x 83
LinLED 140x20mm 275lm 930 2C 9V EH1.1 G3	1010 117 33946	204	48960	150 x 266 x 83
LinLED 280x20mm 550lm 930 2C 18V EH1.1 G3	1010 117 34846	204	24480	300 x 266 x 83
LinLED 560x20mm 1100lm 930 2C 36V EH1.1 G3	1010 117 35146	204	12240	603 x 266 x 83
LinLED 140x20mm 275lm 940 2C 9V EH1.1 G3	1010 117 34046	204	48960	150 x 266 x 83
LinLED 280x20mm 550lm 940 2C 18V EH1.1 G3	1010 117 34946	204	24480	300 x 266 x 83
LinLED 560x20mm 1100lm 940 2C 36V EH1.1 G3	1010 117 35246	204	12240	603 x 266 x 83
LinLED 140x20mm 275lm 930 2C 9V S8 K G7	1010 147 31546	204	48960	150 x 266 x 83
LinLED 280x20mm 550lm 930 2C 18V S8 K G7	1010 147 31646	204	24480	300 x 266 x 83
LinLED 560x20mm 1100lm 930 2C 36V S8 K G7	1010 147 31746	204	12240	603 x 266 x 83
LinLED 140x20mm 275lm 940 2C 9V S8 K G7	1010 147 31846	204	48960	150 x 266 x 83
LinLED 280x20mm 550lm 940 2C 18V S8 K G7	1010 147 31946	204	24480	300 x 266 x 83
LinLED 560x20mm 1100lm 940 2C 36V S8 K G7	1010 147 32046	204	12240	603 x 266 x 83

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LinLED 560x20mm 1100lm 930 2C 36V S5 K G6	1010 147 45246	204	12240	603 x 266 x 83
LinLED 140x20mm 275lm 940 2C 9V S5 K G6	1010 147 45346	204	48960	150 x 266 x 83
LinLED 280x20mm 550lm 940 2C 18V S5 K G6	1010 147 45446	204	24480	300 x 266 x 83
LinLED 560x20mm 1100lm 940 2C 36V S5 K G6	1010 147 45546	204	12240	603 x 266 x 83