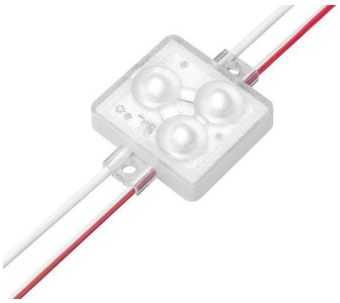
TALEXX CRYSTAL SELECT P561

P561 XX XXXlm XXXmm 50 68 EXC

- LED chain for highlighting lines and edges and for backlighting complex contours, letters and symbols in signage applications
- Optimised for use in signage (lettering, surface backlighting)
- High color consistency (MacAdam 5)
- Beam characteristic: 155°
- LED module with plastic casing and strain relief with IP68 protection
- Integrated current source to stabilise luminous flux
- Flexible chain, can be split between any module
- Mounting with screw or premounted double-sided adhesive tape possible
- Nominal life-time up to 50,000 h (at Ta 60 °C with a failure rate max. 0.2 % per 1,000 h)



IP68 CE RoHS

ORDERING GUIDE

Type	Article Number(s)	Color	Wavelength Range	Color Temperature[5]
(3 Light Points per Module)				
P561 DL 154lm 250mm 50 68 EXC	28000958	Daylight White	N/A	6500K
P561 DL 154lm 300mm 50 68 EXC	28000959	Daylight White	N/A	6500K
P561 NW 142lm 300mm 50 68 EXC	28000960	Neutral White	N/A	4000K
P561 WW 130lm 300mm 50 68 EXC	28000957	Warm White	N/A	3000K

Packaging: 1 piece/roll, 30 pieces/carton, 180 pieces/pallet

SPECIFIC TECHNICAL DATA

Type	Photometric Code[2]	Wavelength Range	Color Temperature[5]	Typ. Luminous Flux Per Module[2]	CRI[2]	Supply Voltage DC[3]	Typ. Current per Module[2]	Typ. Power per Module	Luminous Efficacy
(3 Light Points per Module)									
P561 G1 DL	765	N/A	6500K	154 lm	>70	12 V	123 mA	1.48 W	104 lm/W
P561 G1 NW	840	N/A	4000K	142 lm	>80	12 V	123 mA	1.48 W	96 lm/W
P561 G1 WW	830	N/A	3000K	130 lm	>80	12 V	123 mA	1.48 W	88 lm/W

[1] If the max temperature limits are exceeded, the life of the module will be greatly reduced or the module maybe damaged. For the precise position of the Tc point see the above diagram.
[2] Tolerance range for optical and electrical data: 320%.
[3] Exceeding the max operating voltage leads to an overload on the uchain. This may, in turn, result in a reduction in life-time or even in destruction. Tolerance range for the supply voltage: 12 V: +2 V / -0 V. 4
[4] Maximum submerge depth 1 m / 60 min.
[5] Colour temperature for information only. Valid colour see ‚Coordinates and tolerances according to CIE 1931'. All values at Ta = 25 °C.

MODULE DIMENSIONS

Part Number	Length (in/mm)	Width (in/mm)	Height (in/mm)
P561 XX XXXlm XXXmm 50 68 EXC	1.89/48.0	0.47/12.0	0.37/9.4

REV: 30MAY2019
Data sheet subject to change without notice.

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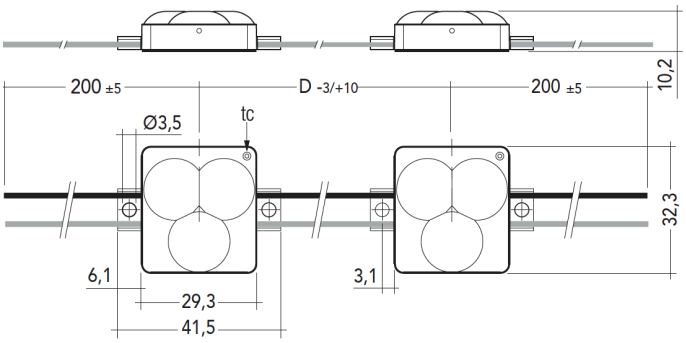
TECHNICAL DATA

Ambient Temperature T_a	-40 — +60° C
Max Surface Temperature on Module T_c	+ 65° C
Storage Temperature T_s	-40 — +85° C
Type of Protection[4]	IP68
Risk Group (EN 62471:2008)	0

DIMENSION DRAWING



TYPECODE

EXAMPLE: P561 DL 154 250 50 68 EXC

Category	LED P561	G1	DL	154	250	50	68	EXC
Sub-Category	TALEXXchain	Generation	Color	Typ. Luminous Flux	Module distance D	# of Modules	Protection	Product Layer
Spec. (=)	CRYSTAL SELECT	1	Daylight White	154 lumens	250 mm	50	IP68	EXC

For more information call or email your **GEN**LED AgiLight® contact.

PHOTOMETRIC CODE

Key for photometric code, e.g. 861.

1st Digit		2nd + 3rd Digit
Code	CRI	
7	67 - 76	Color temperature in Kelvin x 100
8	77 - 86	
9	87 - ≥90	

LED Control Gear Matrix | CRYSTAL SELECT P561

IN-BUILT LCU					
Type	LCU 15W 12V IP67	LCU 35W 12V IP67	LCU 60W 12V IP67 / LCU 60W 12V IP66	LCU 100W 12V IP67 / LCU 100W 12V IP66	LCU 180W 12V IP67
Article Number	28000507	28000508	28000509 / 28001026	28000510 / 28001027	28000511

Assignable LED Control Gear

Type	Number of Modules										Max. Chaining
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	
LED P561 DL	1	8	3	20	4	34	6	58	11	104	100
LED P561 NW	1	8	3	20	4	34	6	58	11	104	100
LED P561 WW	1	8	3	20	4	34	6	58	11	104	100

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STANDARDS

- EN 62031
- EN 62471

The product meets the “inbuilt LED module“ classification according to EN 62031. The product passed the glow-wire test with 850 °C according to EN 62031.

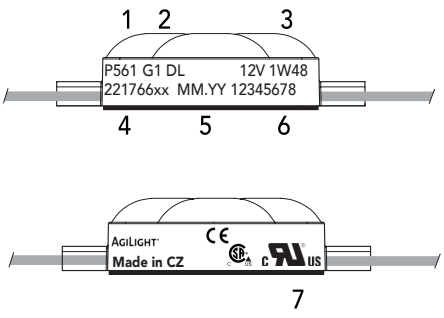
Certificates
- UL file: E313318
- CSA file: 249699
- ENEC for light colour DL, NW, WW only

THERMAL BEHAVIOR

Operation temperature (operation, no defects)	T_a	-40 — +60° C
Storage temperature	T_s	-40 — +85° C
Max. temperature Tc point	T_c	65° C

The values apply to operation at 100 % output, natural convection. If the maximum temperature limits are exceeded, the life of the module will be greatly reduced. The module can fail within a short time. The Tc point temperature of the module has to be measured in the thermally stable state and under operating conditions. Measurement setup e.g. according to IEC/EN 60598-1.

LABEL PRODUCT (SAMPLE)



KEY	
Code	
1	Type
2	Generation
3	Electr. Specification
4	Article Code
5	Production Date
6	Production Batch
7	Normative Symbols

LUMEN MAINTENANCE[1]

Lumen depreciation – the decrease in lumen output that occurs as a lamp is operated.

L70 or L70 – shorthand for lumen depreciation to 70 % of initial lumen output indicates 70 % lumen maintenance. L50 would be lumen depreciation of 50 %.

B50 – another aspect of LED life projection, used in conjunction with the lumen depreciation.

B50 indicates no more than 50% of a sample of LED devices would be expected to fail before a certain number of operating hours. Failure means light output drops below a target lumen maintenance level (such as L70 or L50). B10 would mean no more than 10% of the sample fails within the given time.

[1]reference: LM-80 Test Report LED package supplier.

MAINTENANCE NOTE

The product is maintenance free. If cleaning during application only clear water without the addition of cleaning agents should be used.

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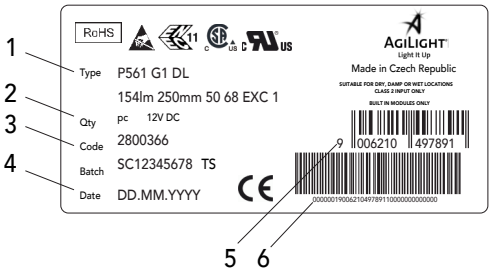
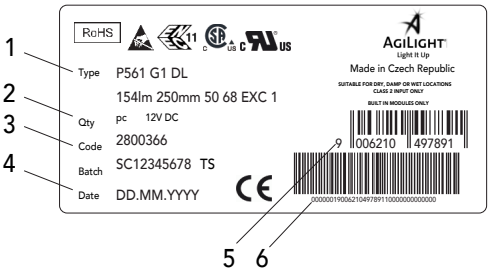
LABEL PRODUCT PACKAGING & LABEL CARTON





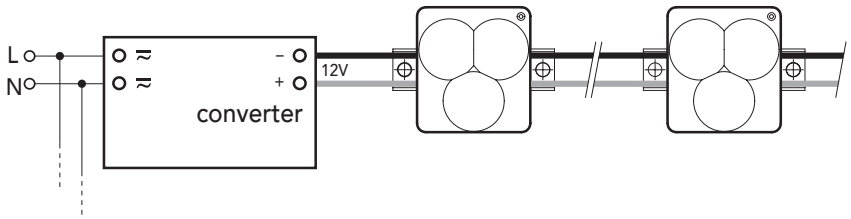
KEY (for both)	
Code	
1	Type
2	Packaging Quantity
3	Article Code
4	Production Date
5	Barcode EAN13 for packaging unit
6	Barcode EAN128 (includes EAN13 and batch number)

WIRING

Cable: AWG 18

Color	Red-White	White
Function	+	-

WIRING DIAGRAM



EMPIRICAL VALUES FOR DECREASE OF LUMINOUS FUX OVER CHAIN

Type	Color	Module Distance 250mm	Module Distance 300mm	Number of Modules
P561 DL 154lm 250mm 50 68 EXC	Daylight White	21%	34%	50
P561 DL 154lm 300mm 50 68 EXC	Daylight White	21%	34%	50
P561 NW 142lm 300mm 50 68 EXC	Neutral White	21%	34%	50
P561 WW 130lm 300mm 50 68 EXC	Warm White	21%	34%	50

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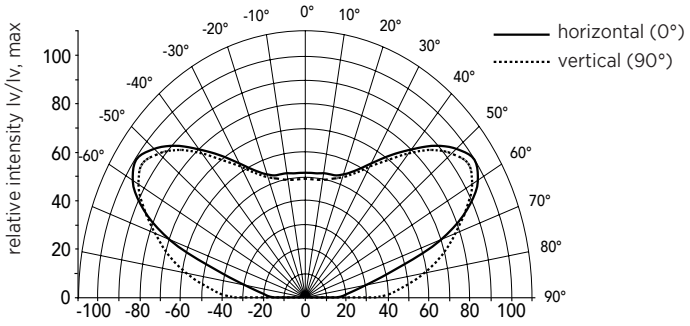
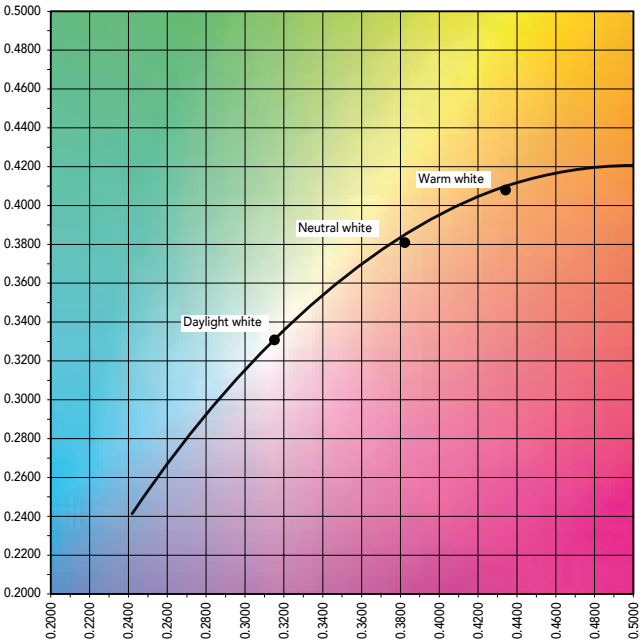
BEAM CHARACTERISTICS 155°

Light distribution Iv/Ivmax



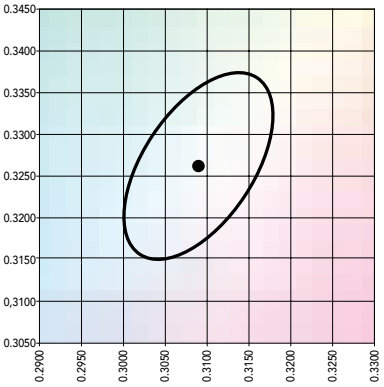
COLOR DIAGRAM



COORDINATES AND TOLERANCES ACCORDING TO CIE 1931

Daylight White (DL)

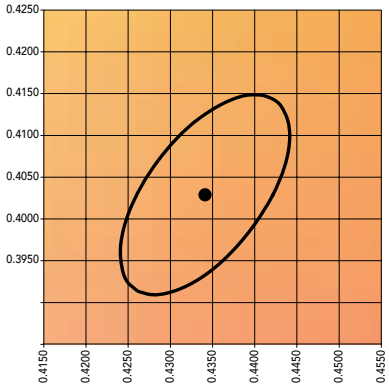
	x0	y0
Centre	0.3154	0.3305



MacAdam ellipse: 5SDCM

Warm White (WW)

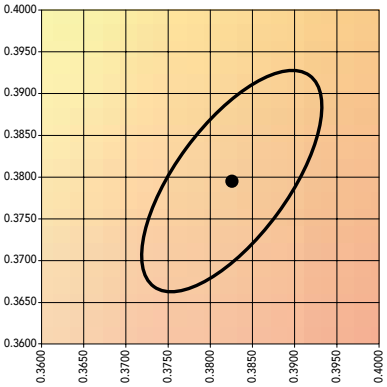
	x0	y0
Centre	0.4345	0.4033



MacAdam ellipse: 5SDCM

Neutral White (NW)

	x0	y0
Centre	0.3825	0.3796



MacAdam ellipse: 5SDCM