

UWAGA! Ilość światła na pylonie należy wyregulować do poziomu 300Cd/qm.

Poz.	Nazwa części (zespołu)	Ilość	Długość [m]	Materiał	Uwagi
15	Przewód	1	2,5	2x2,5mm ²	YDY
14	Przewód	1	1,0	2x1,5mm ²	OMY
13	Przewód	1	3,2	3x2,5mm ²	OMYzo
12	Przewód	1	0,3	1x2,5mm ²	DYzo
11	Przepust	3	...	KT13,5 (ø21mm)	...
10	Przepust	1	...	PG11	...
9	Puszka hemretyczna	1	...	Hensel	IP65
8	Listwa zaciskowa	3	...	2-polowa	...
7	Złączka	2	...	Wago 222 5-polowe	Rozłączalne
6	Złączka	1	...	Wago 222 3-polowe	Rozłączalne
5	Złączka	2	...	Wago 222 2-polowe	Rozłączalne
4	Złączka	18	...	UR2-3M	...
3	Złączka	6	...	DSG-CANUSA	0,5-1,5mm ²
2	Zasilacz MeanWell	1	...	HLG-320H-12A	12V 264W
1	LED GOQ	306	...	GOQ2Mini (Samsung)	12V 6500K 0,72W

Konstruował	Kreślił	Zmiana I	Zmiana II	Wzrost	Imię i nazwisko	Data	Nazwa przedmiotu (zespołu)
					Oliwert Michał	09.11.2015	Audi 1.0 GW Highlight Stele Pylon 4500x1125 ver. 2014 + Regulator

Nr. obwodu	Zasilacz	Ilość modułów w obwodzie	Rodzaj modułów w obwodzie	Napięcie początkowe [V]	Napięcie końcowe [V]	Podpis

Przewód ochronny przykręcić do ramy pylonu.

Przewód zasilający wyprowadzić 3,0m po za pylon.

Max moc wejściowa 345W.

Skala: 1:1

Nr schematu: 805320

Nr rysunku: 774107, 774207, 774208

IP68 

TALEXchain CRYSTAL SELECT E G1 TALEXchain CRYSTAL

Product description

- 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 colour 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)

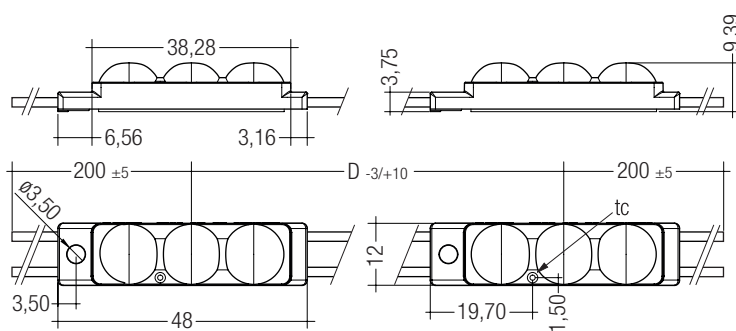
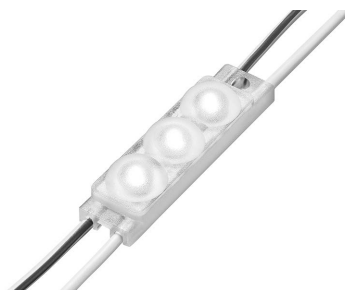
Technical data

Ambient temperature ta	-40 ... +60 °C
Max. surface temperature on module tc ^①	65 °C
Storage temperature ts	-40 ... +85 °C
Type of protection ^④	IP68
Risk group (EN 62471:2008)	0



Standards, page 3

Colour temperatures and tolerances, page 5, 6



Ordering data

Type	Article number	Colour	Wavelength range	Colour temperature ^⑤
3 light points per module				
LED P551E-S CW 12 200 100 68 B G1	28000717	Crystal white	–	7,500 K
LED P551E-S DL 12 150 100 68 B G1	28000365	Daylight white	–	6,500 K
LED P551E-S DL 12 200 100 68 B G1	28000366	Daylight white	–	6,500 K
LED P551E-S NW 12 200 100 68 B G1	28000432	Neutral white	–	4,000 K
LED P551E-S WW 12 200 100 68 B G1	28000433	Warm white	–	3,000 K

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

Specific technical data

Type	Photometric code ^⑥	Wavelength range	Colour temperature ^⑤	Typ. luminous flux per module ^②	Colour rendering index CRI ^②	Supply voltage DC ^③	Typ. current per module ^②	Typ. power per module	Luminous efficacy	Energy classification per module
3 light points per module										
LED P551E-S CW	775/5xx	–	7,500 K	60 lm	> 63	12 V	58 mA	0.7 W	86 lm/W	A++
LED P551E-S DL	765/5xx	–	6,500 K	60 lm	> 70	12 V	58 mA	0.7 W	86 lm/W	A++
LED P551E-S NW	840/5xx	–	4,000 K	66 lm	> 80	12 V	58 mA	0.7 W	95 lm/W	A++
LED P551E-S WW	830/5xx	–	3,000 K	66 lm	> 80	12 V	58 mA	0.7 W	95 lm/W	A++

^① If the max. temperature limits are exceeded, the life of the module will be greatly reduced or the module may be damaged. For the precise position of the tc point see the above diagram.

^② Tolerance range for optical and electrical data: ±15 %.

^③ Exceeding the max. operating voltage leads to an overload on the TALEXchain. 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 Maximum submerge depth 1 m / 60 min.

^⑤ Colour temperature for information only. Valid colour see 'Coordinates and tolerances according to CIE 1931'.

^⑥ Photometric code in evaluation.

All values at ta = 25 °C.

Type code

Example: LED P551E-S DL 12 200 100 68 B G1

LED P551E-S	TALEXchain CRYSTAL SELECT
DL	Colour = Daylight white
12	Supply voltage = 12 V
200	Module distance D = 200 mm
100	Number of modules = 100
68	Type of protection = IP68
B	Beam characteristic = 155°
G1	Generation = 1

For more information please call or email your Tridonic contact.

Photometric code

Key for photometric code, e. g. 861/449

1 st digit	2 nd + 3 rd digit	4 th digit	5 th digit	6 th digit
Code CRI	Colour temperature in Kelvin x 100	McAdams initial	McAdams after 25% of the life-time (max.6000h)	Lumen maintenance after 25% of the life-time (max.6000h)
				Code Remaining lumen
7 67 – 76				7 ≥ 70 %
8 77 – 86				8 ≥ 80 %
9 87 – ≥90				9 ≥ 90 %

LED control gear matrix – TALEXchain CRYSTAL SELECT

Type	IN-BUILT LCU ^①					REMOTE LCU ^②			
	LCU 015/12 D010	LCU 035/12 D010	LCU 060/12 D010	LCU 100/12 D010	LCU 150/12 D010	LCU 035/12 E020	LCU 060/12 E020	LCU 100/12 E020	LCU 150/12 E020
Article number	24166316	24166318	24166322	24166326	24166331	24166319	24166323	24166327	24166332

Type	Assignable LED control gear										Assignable LED control gear								Max. chaining
	Number of modules										Number of modules								
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	
LED P551E-S CW	2	18	7	43	10	74	19	124	37	186	6	43	10	74	19	124	37	186	100
LED P551E-S DL	2	18	7	43	10	74	19	124	37	186	6	43	10	74	19	124	37	186	100
LED P551E-S NW	2	18	7	43	10	74	19	124	37	186	6	43	10	74	19	124	37	186	100
LED P551E-S WW	2	18	7	43	10	74	19	124	37	186	6	43	10	74	19	124	37	186	100

^① Type of protection IP67.

^② Type of protection IP20.

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 behaviour

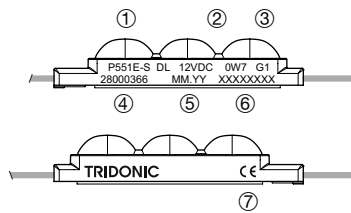
operation temperature (operation, no defects)	ta	- 40 → + 60 °C
storage temperature	ts	- 40 → + 85 °C
max. temperature tc point	tc	- 20 → + 80 °C

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.

Maintenance note

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

Label product



- ① Type
- ② Electr. specification
- ③ Generation
- ④ Article code
- ⑤ Production date
- ⑥ Production batch
- ⑦ Normative symbols

Label product packaging



- 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)

Label carton



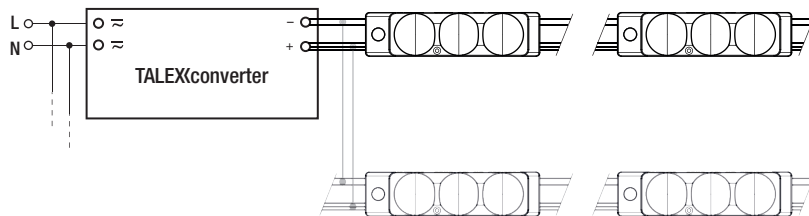
- ① Type
- ② Packaging quantity
- ③ Article code
- ④ Production date
- ⑤ Barcode EAN13 for packaging unit
- ⑥ Barcode EAN128 (includes EAN13 and batch number)

Wiring

Cable: AWG 18

Colour	red-white	white
Function	+	-

Wiring example

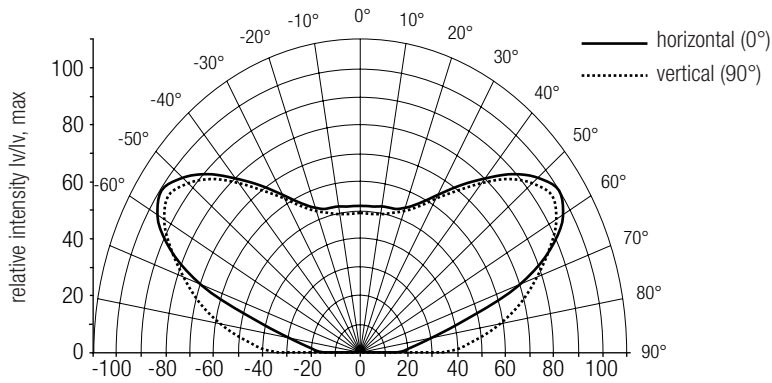


Empirical values for decrease of luminous flux over the chain

Type	Colour	Module distance	Module distance	Number of modules
		150 mm	200 mm	
LED P551E-S CW	Crystal white	16 %	41 %	100
LED P551E-S DL	Daylight white	16 %	41 %	100
LED P551E-S NW	Neutral white	16 %	41 %	100
LED P551E-S WW	Warm white	16 %	41 %	100

Beam characteristics 155°

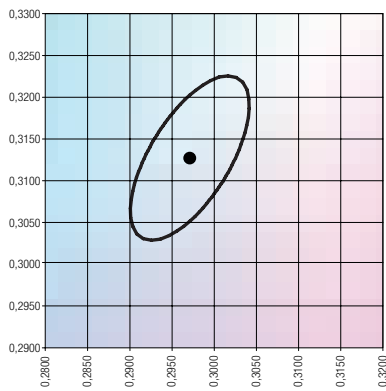
Light distribution I_v/I_{vmax} .



Coordinates and tolerances according to CIE 1931

Crystal white (CW)

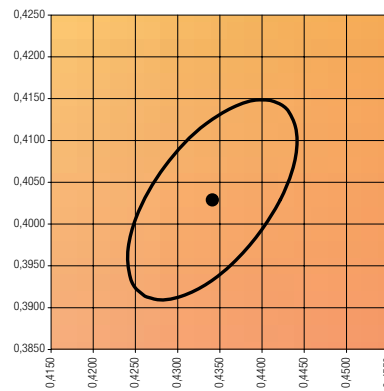
	x0	y0
Centre	0.2970	0.3132



MacAdam ellipse: 5SDCM

Warm white (WW)

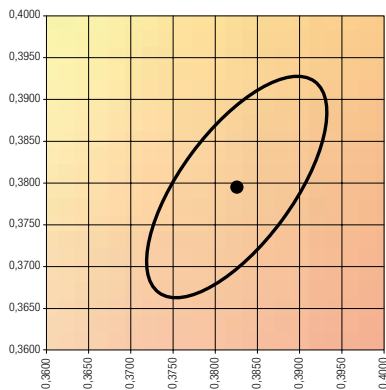
	x0	y0
Centre	0.4345	0.4033



MacAdam ellipse: 5SDCM

Neutral white (NW)

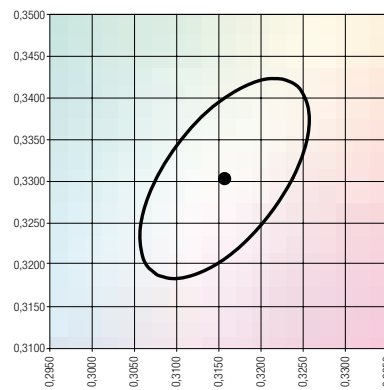
	x0	y0
Centre	0.3825	0.3796



MacAdam ellipse: 5SDCM

Daylight white (DL)

	x0	y0
Centre	0.3154	0.3305



MacAdam ellipse: 5SDCM

