

CLASSIC & SELECT Next Generation



- Perfect homogeneity, fewer modules – beam characteristic 155°
- Narrow white light tolerance – MacAdam 5
- Small and robust modules – IP68
- Maximum flexibility
- 5-year guarantee

TALEXchain CRYSTAL CLASSIC & SELECT Next Generation

Perfect homogeneity, fewer modules – beam characteristic 155°

The Next Generation of CLASSIC and SELECT modules equipped with three light points with individual lenses provide extremely uniform illumination for signage applications. Thanks to the higher luminous flux and the increased efficiency of the CLASSIC and SELECT modules, fewer modules and fewer converters are needed for the same brightness. Installation costs are correspondingly low, which means that overall costs are much lower. Another benefit is that the small modules with the 155° wide-angle light points produce their optimum effect at a mounting depth of only 4 cm.

- ___ Perfectly uniform illumination
- ___ Small mounting depth
- ___ Low material and assembly costs

Small robust modules – IP 68

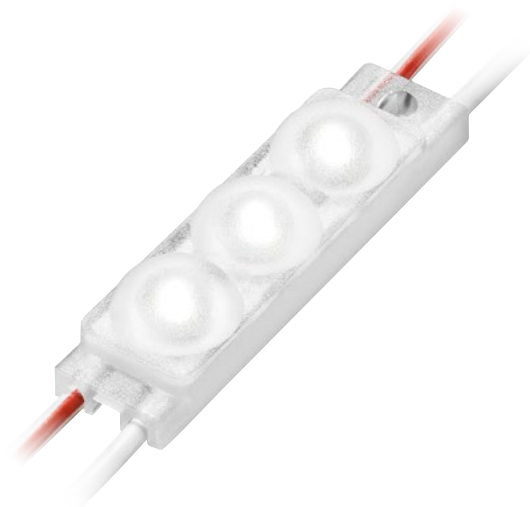
IP 68 design and high-quality materials reliably protect the electronic components and in particular the phosphor of the light emitting diodes against environmental factors. Thanks to their reduced width the modules can be installed even in small applications.

- ___ High-quality materials
- ___ Small modules

Maximum flexibility

Optimum illumination and no annoying cables: TALEXchain CRYSTAL chains are available with two module spacings to keep installation costs as low as possible in all applications. Because the CLASSIC and SELECT modules are the same size it is possible to adapt the brightness of the sign by just switching between the CLASSIC and SELECT modules without changing the layout and mounting arrangement to meet specific customer requirements.

- ___ Low installation costs
- ___ Different brightness levels from the same mounting arrangement



TALEXchain CRYSTAL P541E / P551E

Narrow white light tolerance – MacAdam 5

The human eye can detect the smallest differences in light colours. To ensure that the individual letters and signs are perfectly uniform the LED modules and LED chains must exhibit a very narrow white light tolerance. Tridonic is one of only a few manufacturers who can guarantee a MacAdam 5 white light tolerance for its TALEXchain CRYSTAL products and is constantly striving to improve the quality of white light still further. The new generation of TALEXchain CRYSTAL units has an improved colour mix for the individual light points, resulting in a light colour that is even more brilliant and uniform – even at low mounting depths.

- ___ Brilliant uniform light colour
- ___ Perfect signage effect
- ___ No colour difference after replacement

5-year guarantee

With a 5-year guarantee on TALEXchain CRYSTAL products, Tridonic stands for a lifetime of up to 50,000 hours – even at high ambient temperatures of up to 60°C. Due to Tridonic's robust TALEXchain CRYSTAL modules equipment failure, high replacement costs and loss of light output can be avoided.

- ___ High reliability
- ___ No consequential costs, no loss of advertising impact

TALEXchain CRYSTAL CLASSIC & SELECT Next Generation



► At a glance

- ___ Beam characteristic 155°:
uniform light distribution at fewer modules
- ___ MacAdam 5: narrow white light tolerance
- ___ Small robust modules with IP 68 protection
- ___ Maximum flexibility
- ___ 5-year guarantee
- ___ Matching converters in IP 20 and IP 67 designs for 10 W to 150 W
- ___ Dimmable with TALEXcontrol LNU PWM dimmers

TALEXchain CRYSTAL P541E / P551E

Technical property	SELECT	CLASSIC X	CLASSIC
Luminous flux ¹⁾	60 lm	45 lm	31 lm
Luminous efficacy	86 lm/W	88 lm/W	92 lm/W
Power per module	0.70 W	0.50 W	0.34 W
Beam characteristic	155°	155°	155°
Light colour	DL (6,500 K) ²⁾ NW (4,000 K) ²⁾ WW (3,000 K) ²⁾	DL (6,500 K) ²⁾	DL (6,500 K) ²⁾ R (620–630 nm) G (520–537 nm) B (465–470 nm) O (600–609 nm) A (583–592 nm)
White light tolerance	Mac Adam 5	Mac Adam 5	Mac Adam 5
Type of protection	IP 68	IP 68	IP 68
Number of modules per chain	100 pcs	100 pcs	100 pcs
Distance between modules	150 mm / 200 mm	150 mm / 200 mm	100 mm / 150 mm
Ambient temperature t_a	-40 ... +60°C	-40 ... +60°C	-40 ... +60°C
Storage temperature t_s	-40 ... +85°C	-40 ... +85°C	-40 ... +85°C
Guarantee	5 years	5 years	5 years
Expected life time at t_a 60°C	50,000 h	50,000 h	50,000 h
Marks of conformity	CE, ENEC, cRUus, cCSAus	CE, ENEC, cRUus, cCSAus	CE, ENEC, cRUus, cCSAus
Tape	3M VHB 5925	3M VHB 5925	3M VHB 5925
Can depth	> 4 cm	> 4 cm	> 4 cm

¹⁾ Luminous flux for light colour DL (6,500 K)

²⁾ Colour temperature for information only. Detailed information see data sheet.

TALEXchain CRYSTAL CLASSIC & SELECT Next Generation

TALEXchain CRYSTAL SELECT G1	Art. no.	Luminous flux per module	Light colour	Colour temperature ¹⁾	Spacing between modules
LED P551E-S DL 12 150 100 68 B G1	28000365	60 lm	Daylight white (DL)	6,500 K	150 mm
LED P551E-S DL 12 200 100 68 B G1	28000366	60 lm	Daylight white (DL)	6,500 K	200 mm
LED P551E-S NW 12 200 100 68 B G1	28000432	66 lm	Neutral white (NW)	4,000 K	200 mm
LED P551E-S WW 12 200 100 68 B G1	28000433	66 lm	Warm white (WW)	3,000 K	200 mm

¹⁾ Colour temperature for information only. Detailed information see data sheet.

TALEXchain CRYSTAL CLASSIC G1	Art. no.	Luminous flux per module	Light colour	Colour temperature ¹⁾	Spacing between modules
LED P541E-C DL 12 100 100 68 B G1	28000361	31 lm	Daylight white (DL)	6,500 K	100 mm
LED P541E-C DL 12 150 100 68 B G1	28000362	31 lm	Daylight white (DL)	6,500 K	150 mm
LED P541E-C DL 12 150 100 68 B G1 X	28000363	45 lm	Daylight white (DL)	6,500 K	150 mm
LED P541E-C DL 12 200 100 68 B G1 X	28000364	45 lm	Daylight white (DL)	6,500 K	200 mm
LED P541E-C R 12 150 100 68 B G1	28000468	12 lm	Red (R)	620–630 nm	150 mm
LED P541E-C G 12 150 100 68 B G1	28000471	35 lm	Green (G)	520–537 nm	150 mm
LED P541E-C B 12 150 100 68 B G1	28000472	11 lm	Blue (B)	465–470 nm	150 mm
LED P541E-C O 12 150 100 68 B G1	28000469	16 lm	Orange (O)	600–609 nm	150 mm
LED P541E-C A 12 150 100 68 B G1	28000470	12 lm	Amber (A)	583–592 nm	150 mm

¹⁾ Colour temperature for information only. Detailed information see data sheet.

Support and advice from a single source

We will help you to create messages out of light that are unbeatable in terms of economy and functionality.

As part of Tridonic, Tridonic Signage is represented worldwide by 30 branch offices and partners in 73 countries.

The easiest way to find your regional contact is to check our website at www.tridonic.com / www.tridonic-signage.com

Headquarters

Tridonic GmbH & Co KG
Färbergasse 15
6851 Dornbirn, Austria
T +43 5572 395-0
F +43 5572 20176
www.tridonic.com
sales@tridonic.com

