

## Underscore InOut

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### Product configuration: E272(RGB)

E272: PIXEL version - Top-Bend 16mm - LED - 24Vdc - L= 3004mm



### Product code

E272: PIXEL version - Top-Bend 16mm - LED - 24Vdc - L= 3004mm

### Technical description

Luminaire for indoor and outdoor architectural linear lighting – with RGBW (PIXEL) LED (4000K - CRI 80 white LEDs) – on a 24Vdc flexible white circuit, length L=3004mm. The LED strip can be controlled via a SPI protocol with addressing every 83.3mm (pixel step). The LED circuit is completely IP68 encapsulated with a high-performance polymer sheath that has a white (outside) and milky finish (emission surface): the material allows the device to be installed and used even at extreme temperatures: -30°C +45°C.

Underscore InOut TOP-BEND can be used to create straight lines on flat and curved surfaces. Even, spotfree lighting is guaranteed along the entire strip profile up to the end parts. On both ends (not the head), the product is supplied with a cable L=80mm with a male connector (input cable) and a female connector (output cable) for a single direction IP68 connection, fitted with an anti-detachment locknut. The product is also supplied with stainless steel wires to stop the body from misshaping as this may damage the LED circuit. Easy to install and a robust design for difficult environments (for example, it is salt water, UV and solvent resistant).

Minimum curving radius 250mm for 16mm TOP-BEND versions.

### Installation

Surface-mounted (ceiling and wall) using accessories to be ordered separately. The installation accessories available include end-low aluminium profiles with slots (L=104mm) and intermediate-low aluminium profiles with no slots (L=998-1790mm) that are used to secure the linear Underscore InOut, with its side exit for the cable with connector. Aluminium low clips (L=40mm) and AISI 316 stainless steel low clips (L=40mm) ideal for curved sections are available. High linear aluminium profiles (L=1000-2000mm) are available and high aluminium and AISI 316 stainless steel clips (L=40mm) that hide the cables with the connectors in the bottom part.

### Colour

White (01)

### Weight (Kg)

0.9

### Mounting

wall arm|wall surface|ceiling surface

### Wiring

24Vdc  $\pm 5\%$  LED circuit. Constant voltage ballasts to be ordered separately, both IP20 and IP67 are available and suitable for outdoor installation. Gateway Art-Nets/SPIs are available for checking and operating the strips. The ballasts/Gateway Art-Nets/SPIs and LED strips are connected via cables with IP68 female connectors (L=115-1500-3000-5000mm) or IP68 male connectors (L=115-1500mm) to be ordered separately.

### Notes

Product complete with LED lamp. Ten standard lengths are available (337-504-671-837-1004-2004-3004-4004-5004-7004mm). The Underscore InOut PIXEL can be connected in a 24Vdc sequence up to a maximum length of L=7004mm. Depending on the type of ballast Underscore connections can be made in parallel, each with a max length of L=7004mm, that can also be installed in a continuous line (see instruction sheet). For the sequenced SPI check connection refer to the instruction sheet. IP68 rating on both the product and the continuous line system that uses IP68 connectors \* The product is not suitable for installation in swimming pools and fountains. Life Time only LED White on: 100,000h - L90 - B50 (Ta 25°C) Life Time n.1 Color LED on: 34,000h - L70 - B50 (Ta 25°C) Life Time n.3 Color LEDs on: 19,000h - L70 - B50 (Ta 25°C) Life Time only LED White on: 46,000h - L80 - B50 (Ta 40°C) Life Time n.1 Color LED on: 19,000h - L70 - B50 (Ta 40°C) Life Time n.3 Color LEDs on: 11,000h - L70 - B50 (Ta 40°C)

Complies with EN60598-1 and pertinent regulations



### Technical data

Im system:	300.0	Colour temperature [K]:	RGBW
W system:	24.7	Voltage [Vin]:	24
Im source:	300	Lamp code:	LED
W source:	7.5	Number of lamps for optical assembly:	1
Luminous efficiency (Im/W, real value):	12.15	ZVEI Code:	LED
Im in emergency mode:	-	Number of optical assemblies:	1
Total light flux at or above an angle of 90° [Lm]:	31.17	Intervallo temperatura ambiente:	from -30°C to 45°C.
Light Output Ratio (L.O.R.) [%]:	100	LED current [mA]:	0.004
Beam angle [°]:	122° / 110°	Control:	SPI