

Last information update: April 2024

Product configuration: E643

E643: Side-Bend 10mm version Led - 24Vdc - L=504mm

**Product code**

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Technical description

Luminaire for indoor and outdoor architectural linear lighting – with RGB Led – on a 24Vdc flexible white circuit, length L=504mm. The led circuit is completely IP68 encapsulated with a white (outside) and milky finish (over light emission) high performance polymer sheath: this material allows the device to be installed and used even at extreme temperatures: -30°C +45°C. Underscore InOut SIDE-BEND can be used to create straight or curved lines on flat 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 IP68 male and female connectors fitted with an anti-detachment locknut. The product is supplied with a stainless steel wire 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 150mm for 10mm SIDE-BEND versions. The technical characteristics of the luminaires comply with EN 60598-1 standards and details.

Installation

Surface-mounted (ceiling and wall) using accessories to be ordered separately. The installation accessories available include low aluminium profiles with a double slot (L=500) that are used to secure the linear Underscore InOut, with a side exit for cables with connectors. Aluminium low clips (L=40mm) and AISI 316 stainless steel low clips (L=40mm) ideal for curved sections are available.

Colour
White (01)**Weight (Kg)**
0.09**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. DALI/DMX/1-10V 12÷48Vdc 4-channel dimming interface available with 6A per channel, (code no. 9639) suitable for both RGB Led and white Led versions. The ballast and led strip are connected via cables with IP68 female connectors (L=115-1550-3050-5050mm) or IP68 male connectors (L=115-1500mm).

Notes

Underscore InOut can be powered in series up to a maximum length of L=7004mm. The product is not suitable for installation in swimming pools and fountains. The lengths indicated can have a tolerance of ± 4 mm compared to the nominal length.

Complies with EN60598-1 and pertinent regulations

**Technical data**

Im system:	34	Life Time LED 2:	35,000h - L70 - B20 (Ta 40°C)
W system:	4.4	Voltage [Vin]:	24
Im source:	33.5	Lamp code:	LED
W source:	4.4	Number of lamps for optical assembly:	1
Luminous efficiency (Im/W, real value):	7.6	ZVEI Code:	LED
Im in emergency mode:	-	Number of optical assemblies:	1
Total light flux at or above an angle of 90° [Lm]:	6	Intervallo temperatura ambiente:	from -30°C to 45°C.
Light Output Ratio (L.O.R.) [%]:	100	LED current [mA]:	5
Colour temperature [K]:	RGB	Control:	PWM
Life Time LED 1:	65,000h - L70 - B20 (Ta 25°C)		

Polar

Imax=8 cd		C25-205		Lux	
h	d1	d2	Em	Emax	
1	5.8	2.9	4	8	
2	11.6	5.7	1	2	
3	17.4	8.6	0.5	0.9	
4	23.2	11.4	0.3	0.5	

Diagram showing the light distribution of a 4.4 W LED at a height of 5 m. The graph plots Lux (0.0 to 0.3) against distance in meters (-1 to 9). The light distribution is represented by concentric semi-circular arcs, indicating a circular beam spread. The beam diameter is approximately 2.2 m.