Underscore InOut

Design iGuzzini   **iGuzzini**

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Product configuration: E654
E654: Side-Bend 10mm version Led - 24Vdc - L=2004mm

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=2004mm. 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=2000) 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	Weight (Kg)
White (01)	0.38

Mounting
wall arm|wall surface|ceiling surface

Wiring
24Vdc ±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 +/- 4mm compared to the nominal length.

Complies with EN60598-1 and pertinent regulations

III   IK10   IP68   CE   ✇03   Ⓢ   EHL   NOM-13

Technical data

lm system:	134	Life Time LED 2:	35,000h - L70 - B20 (Ta 40°C)
W system:	17.6	Voltage [Vin]:	24
lm source:	134	Lamp code:	LED
W source:	17.6	Number of lamps for optical assembly:	1
Luminous efficiency (lm/W, real value):	7.6	ZVEI Code:	LED
lm in emergency mode:	-	Number of optical assemblies:	1
Total light flux at or above an angle of 90° [Lm]:	24	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=32 cd		C25-205	Lux			
h	d1	d2	Em	Emax
1	5.8	2.9	17	31
2	11.6	5.7	4	8
3	17.4	8.6	2	3
4	23.2	11.4	1	2

α = 142° / 110°

Isolux

Lux
h=5 m.
α=0°

LED
/
17.6 W

1.2 1.0 0.7 0.5 0.4 0.3 0.2 0.1 0.1

-1   0   1   2   3   4   5   6   7   8   9   m