



HM48-HE-2

Model	Color	CCT / λd	Lumen
HM48-HE-2W24	White	7000 k	72

Features

Module Operating Voltage	DC 24V
Wattage (W/Module)	0,48 W
IP Class	IP66/IP67
Operating Temperature Range	-40 C° ~ +60 C°
Storage Temperature Range	+5 C° ~ +40 C°
Storage Environment Humidity	RH < 60%
Distance (Centre Module/Module)	150 mm.
Viewing Angle	165°
Life Time (temperature at T _c = 75 °C)	70.000h (L70)
Consistent white light	< 3 SDCM
Chain (No. Modules)	100
Bag (No. Modules)	100
Warranty	7 Years *

*See terms and conditions



The new "GEMMA" series includes a wide range of LED Modules for sign lighting. The exclusive lens with prisms, the high efficiency LEDs and low luminous decay, allow to reduce the quantity of modules required per square meter compared to common modules and to illuminate in a homogeneous and efficient way with significant energy savings. The innovative sturdy structure and the facilitated removal of adhesive protection, significantly reduce installation and maintenance costs.

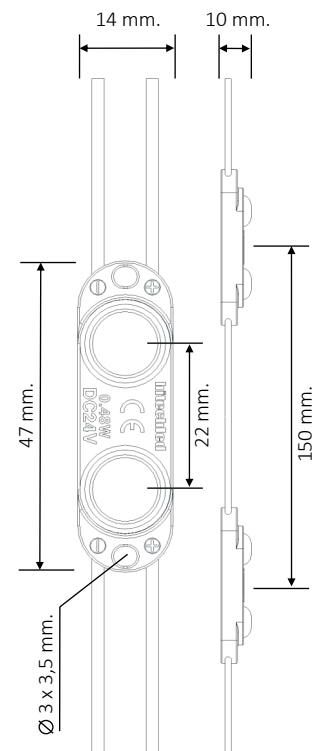
LED Module HM48-HE-2

Applicazioni

- Low energy consumption luminous signs boxes
- Backlighting of single sided light boxes, depth 50 to 150 mm.
- Medium Size light boxes
- Architectural and decorative applications

Benefits

- High efficiency LED module, 24V power supply, ideal for creating low -power consumption lighted signs
- The new prismatic lens not only optimally diffuse the light, but it minimize the dispersions allowing a conspicuous increasing of the efficiency and luminous homogeneity.
- The 3M VHB adhesive with the special protective film removal tab offers greater security and speed in fixing operations, contributing to cost reduction.
- Consistent white light 3-step MacAdam
- Production date is marked on back of module for traceability



HIGH EFFICIENCY

Electrical Data

Model	Nominal Voltage	Voltage Range	Accidental reverse input voltage protection up to	Nominal wattage per chain	Nominal wattage per module
HM48-HE-2W24	24 VDC	23...25 VDC	25 VDC	48 W	0,48 W

Photometrical Data

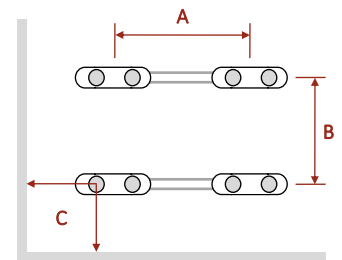
Model	Color	Color Temperature	Color Rendering Index	Typical Luminous Flux	Typical Luminous Efficiency
HM48-HE-2W24	White	7000K ±5%	> 70	72 Lm	150 Lm/W

Coding

Model	Code
HM48-HE-2W24	HTL 000727

Modules Positioning

Light Box Depth	A	B	C
50 mm	70 mm	70 mm	35 mm
60 mm	90 mm	90 mm	45 mm
80 mm	120 mm	120 mm	70 mm
90 mm	140 mm	160 mm	80 mm
100 mm	150 mm	170 mm	90 mm
120 mm	150 mm	210 mm	100 mm
150 mm	150 mm	260 mm	130 mm



The product comply with the following European Standard

<input checked="" type="checkbox"/>	EN 62471: 2008	Photobiological safety of lamps and lamp systems
<input checked="" type="checkbox"/>	EN 62031: 2008+A1: 2013	LED modules for general lighting, Safety specifications
<input checked="" type="checkbox"/>	RoHS2 2011/65/UE	Restriction in the use of hazardous substances in electrical and electronic equipment