


Model	Code	Colour	CCT / λ
HM30M-2CW12	HTL 000730	Cool white	8000 k
HM30M-2NW12	HTL 000740	Natural white	4000 k

Features

Module operating Voltage	DC 12V
Wattage (W/Module)	0,3 W
International protection level	IP65
Operating temperature range	-40 C° ~ +60 C°
Storage temperature range	+5 C° ~ +40 C°
Storage environment humidity	RH < 60%
IEC protection class (with SELV power supply)	Class III
Distance (Centre Module / Module)	65 mm.
Viewing angle	165°
Life time (temperature Tc = 75 °C)	50.000h (L70)
Consistent white light	< 3 SDCM
Chain (No. Modules)	50 pcs
Bag (No. Modules)	100 pcs
Warranty (See terms and conditions)	 4 Years

Description

The new "GEMMA" series includes a wide range of LED modules for sign lighting. The exclusive optics 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 saving.

The innovative sturdy structure and the facilitated removal of adhesive protection, significantly reduce installation and maintenance costs.

Applications

- Very small size channel letters illumination
- Polycarbonate groove lighting
- Linear lighting
- Architectural and decorative applications

Benefits

- The new prismatic optics not only optimally diffuse the light, but it minimize the dispersion 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.
- Color rendering index Ra: >80.
- Production date is marked on back of module for traceability.



50.000 h



5 Years Warranty



12 VDC



RoHS



Data sheet

Electrical Datas

Model	Nominal voltage	Voltage range	Accidental reverse input voltage protection up to	Nominal wattage per chain	Nominal wattage per module
HM30M-2CW12	12 VDC	11...13 VDC	13 VDC	15 W	0,3 W
HM30M-2NW12	12 VDC	11...13 VDC	13 VDC	15 W	0,3 W

Photometrical Datas

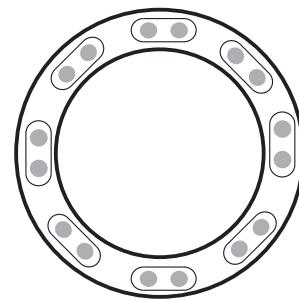
Model	Colour	Colour temperature CCT / λ	Color rendering index	Typical Luminous flux	Typical luminous efficiency
HM30M-2CW12	Cool white	8000 k $\pm 5\%$	> 80	33 Lm	110 Lm/W
HM30M-2NW12	Natural white	4000 k $\pm 5\%$	> 80	31 Lm	103 Lm/W

Modules positioning





The extremely small size of HM30M-2 module makes it suitable for installation in very small channel letters.

The modules has to be fixed by own adhesive by removing the protective film, if the internal surface of channel letter has imperfections it is recommended to put some additional fixing points in the wires with neutral silicone.

Do not draw modules with various types of resins.



This product comply with the following European Standard: (download pdf)

 EMC - Directive 2014/30/EU EN 55015:2013/A1:2015 EN 61547:2009	 General safety requirement for luminaires EN 60598-2-20:2015 used in conjunction with EN 60598-1:2015+A1:2018 EN 62031:2020. IEC TR 62778:2014
 RoHS - Directive 2011/65/EU IEC 62031	 IP protection IEC 60529:1989+A1:1999+A2:2013