

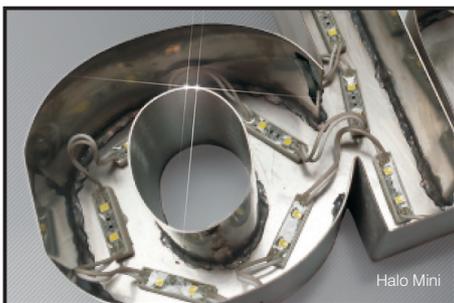


halo**leds**

Technical Specification

Beam Angle: 120
 Voltage: 12v
 Power: 0.24w
 Working temp: -20 to 40°C
 IP Rating: 65

Colour	Colour Temp/ Wavelength
Pure White	5700-6300
Red	620-630
Green	515-520
Blue	460-470
Yellow	590-591



Technical**Helpline**
 02380 253290 / 07879 454457

Applications

Suitable for all types of signage, letters etc.
 (More suited to small signs or letters 60mm minimum depth)

Features

High output SMD3528 LED can reach up to 11 lumens per diode.

2000mm string length with 20 modules per string.

120 degree viewing angle.

0.24w per module

Waterproof with epoxy coating

Made to CE and ROHs standards

88no. modules run on a 30w transformer, 176no. on a 60w transformer.

Installation

Adhesive tape to the back. De-grease and IPA the area thoroughly, then use a suitable adhesive to bond permanently.

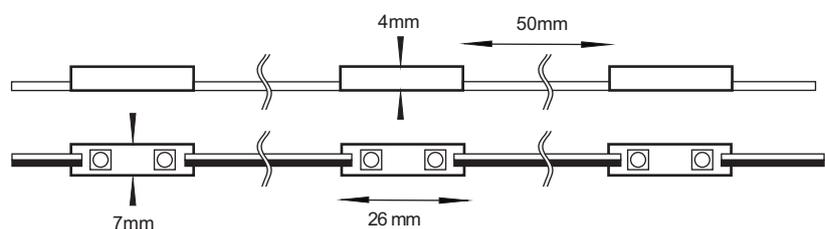
LEDs can be cut anywhere on the string.

It is recommended to wire a minimum of 20 to the transformer or 40 if wiring both ends.

Warranty

2 Year warranty from date of purchase.

Dimensions



halomini

halomini guidelines



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Safety

As the LEDs are only 12v it is a relatively safe procedure to undertake. It is however preferable to have a little understanding of basic electrics before starting any work.

However it is paramount that you get a qualified electrician to wire into the mains and to check once complete.

IP Rating

IP65 means that the modules are fully enclosed to the ingress of dust and they can withstand short jets of occasional water.

This means that they are pretty much waterproof.

Applications

Our 'Mini' module can be used for a wide variety of applications and we have seen being used for:

- Inside of Lettering
- Underneath Bars
- Front edge of Awnings
- Anywhere space is minimal

Transformers

For co-efficiency the transformers should only be used up to 70% of their capacity. Otherwise the lifespan will decrease rapidly as will the LEDs

Formula: Transformer Wattage (ie 60w) x 0.70 / Module Wattage (ie 0.24w)
 $60 \times 0.7 \div 0.24 = 88$ modules

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Wiring

To compensate for voltage drop we always recommend wiring 20 at a time from the transformer. If you need to wire 60 for example:

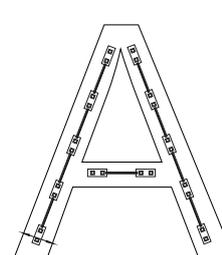


It is always required to keep the Transformer as close to the LEDs as possible, 2-3 metres maximum and use a heavier gauge wire.

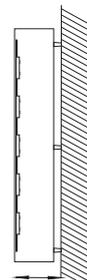
Minimum Depths & Distances

As LEDs are mini spotlights there are minimum distances that the light needs to be from the surface to create an even light distribution. For the Mini, 60mm is required. The surface will also spread the light better and disguise any 'spotting' if it is a matt finish.

Recommended for very small letters, 8mm to 50mm letter strokes. Small recesses etc.



8mm - 50mm



60mm minimum

