

short form data

SE-LED backlighting system

S-LED series



L/70 at 50K hrs: 50,000 hours to 70% of initial light output backed by a 3-year warranty means dependable, high quality LED lighting modules for the sign maker

Description

SE-LED is a unique chain LED lighting system suitable for slim sign boxes with return depths from just 40mm.

With its extra wide beam angle (170°) high efficacy (103lm/s per Watt) our new **SE-LED** system is specially designed for the backlighting of sign boxes with slim profiles.

The system comprises modules arranged at 80mm intervals along a chain. Chains can be cut to length and shorter lengths (e.g. off-cuts) can be easily linked together. Chains of modules are plugged into a seven (single) or fourteen (double) 'busbar' distribution strip. A maximum of 294 modules can be plugged into and powered from one strip. Up to two strips can be powered in one series chain. The X & Y pitch is fixed at 80 x 80. This, along with the extra wide beam angle produces a bright and uniform look on the sign's skin from an easy to layout and wire-up system.

Each module has a peel-off, self-adhesive backing for fast and secure installation. One reel of **SE-LED** consists of 210 modules in a 16.8 metre long chain.

Applications

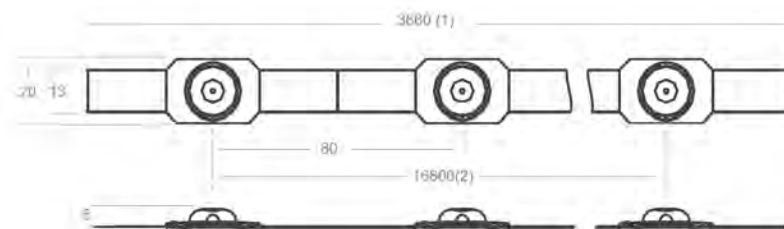
Backlighting shallow and medium depth sign boxes from 40 to 100mm deep

Compliance

IP20 RoHS CE



A fixed pitch chain LED module and busbar system



(1) maximum powered length (2) reel length

- Extra wide beam angle 170°
- Superior lit uniformity and high brightness
- One 2835 SMD LED
- Easily cut to length
- High brightness and efficiency (103 lumens per Watt)
- Low power consumption (0.32W)
- Normal indoor use (IP20)
- 5 years warranty and greater than 50,000 hours to 70% light output (L/70)

Design Guide

Example: 48-sheet (6096 x 3048) uses 2775pcs modules arranged in 75 columns of 37pcs modules each and requires 11pcs 7-way 'busbars' (one cut-down to 5-way), 5pcs 200W and 1pce 100W 12V LED driver.



- Cut to length, very little wastage
- Fixed quantity: 144 per sq/M
- 14 (top) and 7 way version
- Can be cut down by sevenths
- Plug-in, stick down
- Wire-in and light up

LED Drivers

See our data sheet 'LED drivers' available at our website for more information

Part no.	Suitable for qty reels / 16.8M	Rec. max Watts / Amps	L x W x H	IP	Eff. %	SELV output	Class	Warranty (years)
PSU100/12/IP68/R	1	85 / 7.08	174 x 67 x 35	68	90	Y	I	5
PSU200/12/IP67/R	2	170 / 14.16	295 x 60 x 36	68	95	Y	I	5

Specifications

Optical and electrical data typical @ ta 25°C +/-2° @ 12V | Ambient operating temp. range -25 to 70°C

Colour	White
Part No.	SE-LED 01
Input Voltage	12VDC
Operating Current	0.03A (Max.)
Power Consumption	0.32W (Max.)
Dimension	80mm(L) x 30mm(W) x 6.6mm(H)
Beam Angle	170°
Luminous Flux	33lm
Colour Temp	7000K (range 6000K~8000K)
Max number of Modules in Series	42
Max number of 'busbar' strips in series	2

- L/70 lumen depreciation is accelerated when operating temperature range is exceeded
- maximum series powered length: 42 modules / 3360mm
- Take care not to plug modules into 'busbar' with reverse polarity as modules will not light and adhered modules cannot be repositioned
- See full data sheet for more details—available at our website



Our Design Guide is for reference only and the ideal appearance should be checked with a lit trial | Dimensions in millimetres | Data subject to our Terms and Conditions and are liable to change without notice | E&OE | © Oshino Lamps (UK) Ltd 4/2016

