

## BINAY LED EDGE-LIT SIGNS

**BINAY's LED (Light Emitting Diode) Edge-Lit Signs provide a long-life ("fit-and-forget") maintenance-free signage solution which is aesthetically pleasing, has low power consumption, and a long life in excess of ten years**

Edge-Lighting is the method of illuminating a surface from the side instead of the back. Edge-Lighting directs light into the edge of an internally reflective surface material, and then bounces the light out through the front by means of a special treatment that catches the light. Because of this, Edge-Lit signs can be less than 2.5cm (1") thick.

BINAY Edge-Lit Signs use an LED array to edge-light a clear transparent acrylic sheet, the surface of which is etched or routed with a graphic or print letters. When the LED array is lit, the light breaks through the sheet in accented edges at the etched or routed points, illuminating the graphic or print in an aesthetic and pleasing manner.

### Advantages

- Low power consumption (< 1 watt)
- Very long life (more than 10 years)
- Maintenance free
- Extremely thin (compared to box signs); very small volume
- Aesthetically pleasing
- Free-replacement guarantee for 5 years
- Available in voltage ratings of 230VAC, 110VAC, or 12 or 24VDC
- Can save more than 200 units of electricity per annum (as compared to conventional EXIT signs) – a vital conservation of energy item
- Vibration-resistant and shock proof, as compared with incandescent bulbs or fluorescent tubes
- Environment friendly

The basic colours available are red or yellow (which are economical), but other colours such as blue, pure green and white are also possible. Signs can also be made in multicoloured versions, and can also be double sided.

Two standard sizes of signs (23cm tall x 30cm wide, and 36cm tall x 45cm wide) are available. Special sizes can be custom-manufactured if quantities are reasonably large.

The LED housing is of anodised aluminium. The mounting method may be by hanging, by fixing to a side wall, or fixing to the ceiling.

### Potential Applications

- Emergency EXIT signs
- Point-of-purchase displays for beverage, food, fashion and electronics companies
- Way-finding and directional signage for hospitals, airports, railway stations, banks, offices, hotels, meeting facilities, department stores, etc.
- Architectural accents in restaurants, bars and nightclubs
- Trade show signs and eye-catching displays

The applications are limited only by the imagination of the client



Custom-Made Corporate Logo Signage



Standard 'EXIT' Sign



Custom Motif Signs

Anodised Aluminium Housing (containing LED array)



**binay opto electronics private ltd.**

44, Armenian Street, Calcutta 700 001, India  
Telephone: (033) 22429082, 22103807, 22102039 Fax: 91-33-22421493

Website: [www.binayLED.com](http://www.binayLED.com)

email: [info@binayLED.com](mailto:info@binayLED.com), [binay@vsnl.com](mailto:binay@vsnl.com)

INVENTING NEW TECHNIQUES OF PRODUCING LIGHT



Clear acrylic  
sheet with  
etching



**binay opto electronics private ltd.**

44, Armenian Street, Calcutta 700 001, India

Telephone: (033) 22429082, 22103807, 22102039 Fax: 91-33-22421493

**Website: [www.binayLED.com](http://www.binayLED.com)**

email: [info@binayLED.com](mailto:info@binayLED.com), [binay@vsnl.com](mailto:binay@vsnl.com)

**I N V E N T I N G   N E W   T E C H N I Q U E S   O F   P R O D U C I N G   L I G H T**



BINAY LED EDGE-LIT SIGN MODEL CODING SYSTEM

BN    X    XXXX   X    X    XX    X    XXX    X  
       (1)    (2)    (3)    (4)    (5)    (6)    (7)    (8)

1. S = SINGLE-SIDED; D = DOUBLE SIDED
2. SIZE OF SIGN: WIDTH (inches) x HEIGHT (inches)
3. FITTING: C= Ceiling; S= Side; B = Bottom; H = Hanging
4. VOLTAGE RATING: 1 = 100V-130VAC; 2 = 200V-260VAC; 3 = 24VAC; 4 = 12VDC, 5 = 6VDC
5. COLOUR OF LED: R = Red; A = Amber; L = Yellow (lime) green; B = Blue; G = Pure green; W = White; XX=Bicolour
6. COLOUR OF DRAWING: T=TRANSPARENT
7. DESIGN NUMBER: XXX
8. COLOUR OF BACK GROUND: T=TRANSPARENT
9. DIRECTION OF LED LIGHT: B=BOTTOM; C=CEILING; R-RIGHT; L=LEFT

DESIGN CODE NUMBER

EXIT AND ESCAPE ROUTE		ESCAPE ROUTE
001	EXIT (LETTER SIZE )	051
002	EXIT (WITH ARROW RIGHT SIDE)	052
003	EXIT (WITH ARROW LEFT SIDE)	053
004	EXIT ((WITH ARROW BOTTOM NAY)	
005	EXIT (ARROW BOTH SIDES)	
006	EXIT (LETTER SIZE )	
007	EXIT - DO - RIGHT ARROW	
008	EXIT - DO - LEFT	
009	EXIT - DO - BUTTON	
010	T (L. ARROW BOTHSIDES)	
011	FIRE EXIT (LETTER SIZE )	

AOSPOTA SERIES (100)	INDUSTRIAL SERIES (151)
-------------------------	----------------------------

101 OPERATION ON 102 EMERGENCY RADIOLOGY 103 CASUALTY MORCIUE 104 NEUROLOGY DAEDRIATICS 105 OUTDOOR UROLOGY 106 GYNECOLOGY CASHIER 107 108	SCHOOL AND COLLEGES
	CUSTOMER SERIES 501 - 1000
	AIRPORT SERIES (100 - )
HOTEL SERIES (200)	RAILWAY (401 - )
BANK (301 - )	POST OFFICE (450 - )
STOP (351 - )	

BINAY MODEL CODE  
BN = BINAY

1. D – DOUBLE
2. SIZE OF SIGN
3. FITTING  
SIZE – S  
ROOF – R  
B – BOTTOM
4. VOLTAGE 1 = 100V – 130VAC  
2 = 200 - 260VAC  
3 = 24VDC  
4 = 12VDC  
5 = 6VDC  
6 = 3VDC
5. COLOUR OF LED  
R = RED  
G = LIME GREEN  
E = EMERALD (GREEN)  
B = BLUE  
Y = YELLOW OR AMBER  
W = WHITE  
BX = BICOLOUR

6. COLOUR OF DRAWING  
7. DESIGN NUMBER  
8. COLOUR OR BACK GROUND  
T – TRANSPARENT

9. DIRECTION OF LED LIGHT  
B = BOTTOM  
C = CEILING  
R = RIGHT  
L = LEFT

GENERAL SERIES  
(100 – 199)

HOSPITAL SERIES

- |     |                      |
|-----|----------------------|
| 101 | TELEPHONE            |
| 102 | TOILET               |
| 103 | RECEPTION            |
| 104 | CASH                 |
| 105 | NO SMOKING           |
| 106 | NO SMOKING (GRAPHIC) |
| 107 | SILENCE              |
| 108 | OPEN                 |
| 109 | CLOSED               |



**binay opto electronics private ltd.**

44, Armenian Street, Calcutta 700 001, India

Telephone: (033) 22429082, 22103807, 22102039 Fax: 91-33-22421493

**Website: [www.binayLED.com](http://www.binayLED.com)**

email: [info@binayLED.com](mailto:info@binayLED.com), [binay@vsnl.com](mailto:binay@vsnl.com)

**I N V E N T I N G   N E W   T E C H N I Q U E S   O F   P R O D U C I N G   L I G H T**