Signtex Inc LIGHTING
INTELLIGENT EMERGENCY LIGHTING SYSTEMS

| | |
|---|---|
| **PROJECT:** | |
| **TYPE:** | |
| **CATALOG #:** | |

# Crystal Surface Mount LED Edge-lit Exit Signs

The Crystal Surface Mount Edge Lit Exit Sign is field adjustable for wall or ceiling mount. The edge-lit panel is constructed of high-grade acrylic with custom graphics and directional arrows to point towards the exit direction.Ultra high output LEDs produce brilliant graphic illumination well above code minimums.

U.S. Patent 5, 276, 591

**CRYSTAL™**

***Series CRS***

*REV #: CRS.11.26.24*

User's Manual




Custom Graphics

## FEATURES

- Extruded aluminum LED lamp housing mounts to a form- fitting canopy in solid aluminum that contains a "cam lock" device, which is field adjustable for wall or ceiling mount.
- Standard finishes: Satin white enamel and brushed aluminum. Optional finishes: Painted colors in any custom shade, or anodized finishes in satin bronze, polished gold, mirror silver & many others.
- Diamond polished acrylic lenses for optimum light transmission, exterior quality and high brightness.
- Ultra high output LEDs with up to 5 candela output in green or red produce brilliant graphic illumination well above code minimums.
- An advanced microprocessor monitors all charger functions and battery condition continuously, with software to automatically perform all tests and visual indications required by UL Standard 924 and NFPA 101

## ELECTRONICS

- Self-Test/Self-Diagnostic operationdard in battery backup versions.
- Low Voltage Disconnect prevents deep battery discharge
- Universal 120/ 277 VAC input for standard battery or AC unit, or 24 VDC input for remote configuration.
- Remote Model RE may be connected to one of the following:
  - Series CBS UNIVERSAL CENTRAL BATTERY SYSTEM
  - Series MTL MASTER-REMOTE SYSTEM
- Power supply is surge and spike protected.
- The complete power supply module with optional NICAD battery pack is sealed within a plastic enclosure. AC and DC wiring is quickly attached with plug connectors.
- Standard Operating Temperature: 0°C to 50°C

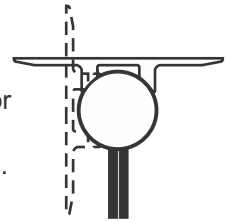






## MOUNTING

- Field selectable wall or ceiling mount.
  No exposed hardware.



## CODES

- Manufactured and tested to UL Standard 924, NFPA Life Safety Code101, and certified to Ip66.

## WARRANTY

- 5 year total customer satisfaction warranty. For details see Signtex product catalog technical data section.

DESIGNED & MADE IN THE USA · DAMP · ETL LISTED c US Intertek · BABA · BAA

**ORDERING INFORMATION *EXAMPLE:*** CRSBB-1RCBA-NA-TW-DG

CRS BB - 1 R C A - NA - TW - DG

| MODEL SERIES | OPERATION | NO. of FACES | LETTER COLOR | BACKGRD COLOR | STANDARD TRIM FINISH | ARROW DIRECTION | MOUNT | OPTIONS |
|---|---|---|---|---|---|---|---|---|
| **CRS** | **BB** Battery Backup<br>**NB** No Battery(AC Only)<br>**REC** Remote w/ Central Battery System<br>**REP** Remote DC Power From Power Supply or POE system | **1** Single<br>**2** Double | **R** Red<br>**G** Green | **C** Clear<br>**M** Mirror<br>**W** White<br>**K** Black<br>**X** Custom | **W** White<br>**K** Black<br>**A** Alum<br>**B** Satin Bronze<br>**X** Custom | **NA** No Arrow<br>**AB** Arrow Both < ><br>**AR** Arrow Right > (SF)*<br>**AL** Arrow Left < (SF)<br>**LR** Single Arrow > (DF)<br>**CX** Custom Graphics | **TW** Universal (Top or wall) | **SEE PAGE 2.** |

* SF:single face, DF: double face

# Crystal Surface Mount LED Edge-lit Exit Signs

**CRYSTAL™**

***Series CRS***

*REV #: CRS.11.26.24*

## SUGGESTED SPECIFICATIONS:

Install Signtex CRYSTAL Series CRS recessed LED exit signs, available as unit equipment or as a remote device connected to a central battery power source. The lamp housing and canopy shall be of extruded aluminum, graphic lenses shall be optical grade acrylic with diamond polished edges. Lighting uniformity shall be better than 4:1 when measured over any illuminated area and average brightness will exceed 6 ft Lambert (21 Cd/m2). Life expectancy of the LEDs shall be in excess of 20 years. The power supply and charger shall be an isolated digital type with regulated current and voltage output to the lamp load and batteries (emergency models). AC supply shall be universal 120/277 VAC input via two- wire feed. One standard power supply shall be capable of driving up to 5 single face remote signs in addition to the master, with emergency operation at least 90 minutes for each sign. Battery charge time to restore full capacity after discharge shall be less than 24 hours.

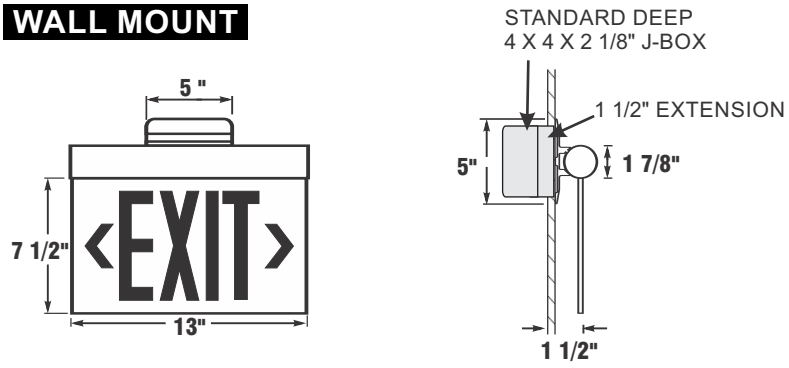
| OPTIONS: | CODE |
|---|---|
| Auto Battery Diagnostics | **DG** |
| Damp Location | **DP** |
| Dual AC Input (120 VAC) | **DAC120** |
| Dual AC Input (277 VAC) | **DAC277** |
| 2 Hour Emergency Operation | **2EM** |
| End Mount (Left/ Right) | **LE/RE** |
| Pendant Mount 12" | **PEN** |
| Pendant Swivel Mount | **SV** |
| Pendant Mt (Custom Length) | **PENX** |
| Mullion Mount | **MM** |
| Inverted Graphics | **INV** |
| 48VDC input (REP Models) | **48** |
| 60VDC input (REP Models) | **60** |

***NOTE:* PRE- INSTALL 4" X 4" X 2 1/8" DEEP J- BOX WITH 1 1/2" EXTENSION RING FOR BB & NB MODELS**

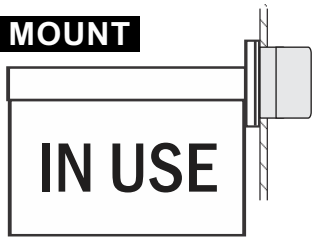
## MOUNTING DATA & DIMENSIONS:

**NOTE:** STANDARD 4-O J-BOX 3 1/2" x 3 1/2" x 1 1/2" USED WITH REMOTE MODELS (CBS & MASTER- REMOTE)

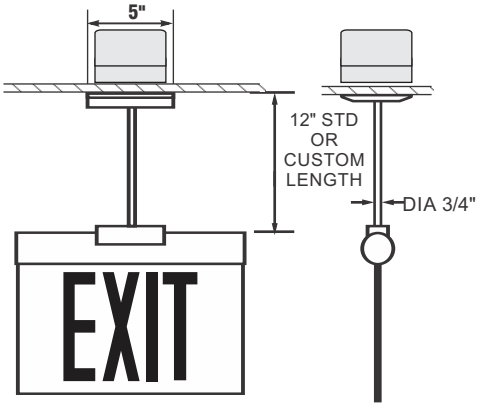
### WALL MOUNT



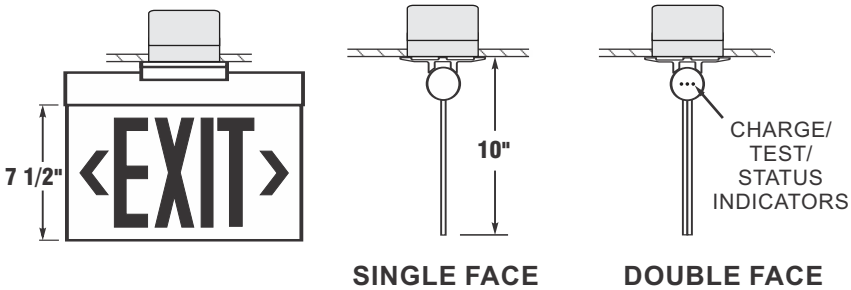

### END MOUNT




### PENDANT MOUNT




### TOP MOUNT




**SINGLE FACE** **DOUBLE FACE**

### LOAD SPECIFICATIONS FOR CENTRAL BATTERY SYSTEM

| FIXTURE | EPR (Watts) |
|---|---|
| CRS1RE | 2 |
| CRS2RE | 4 |

EPR= Emergency Power Rating for Battery

### BATTERY DIAGNOSTIC FUNCTIONS:

**Microprocessor programmed to perform tests as follows:**

| Every 28 Days | Every 12 Months |
|---|---|
| Continuous Monitoring w/ 1 Second Sampling | |
| Lamp Connections | Transfer switch function |
| Battery Connections | Battery discharge rate under full load |
| | Test switch indicator function |
| | Full 90 minute emergency operation test with test/ fail and manual report signal |

### SELF- TEST DIAGNOSTIC FUNCTIONS

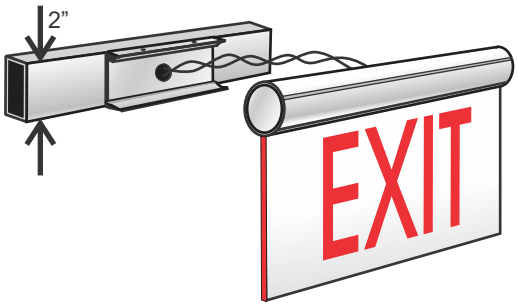
| STATUS | LED DISPLAY |
|---|---|
| NORMAL MODE | OFF |
| FAILED LAMP | GREEN |
| FAILED CHARGER | RED |
| FAILED TRANSFER | ORANGE |
| FAILED BATTERY | RED FLASH |
| FAILED ANNUAL TEST | ORANGE FLASH |

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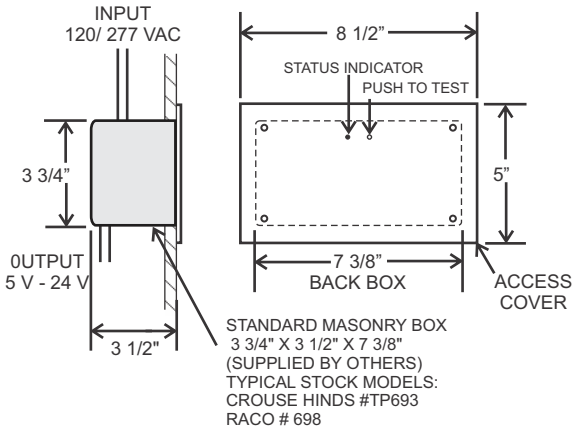
***Specifications and dimensions subject to change without notice.***

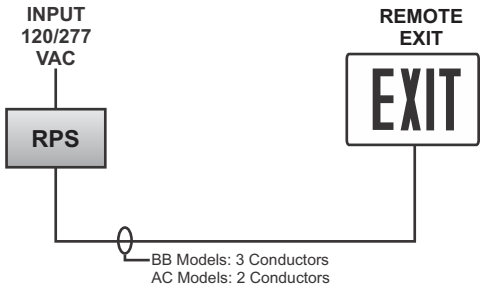
## MULLION MOUNT - Option: MM

**Application:** Designed to mount directly to a 2" mullion with a remote power supply (RPS). The RPS can be mounted in any accessible wall or ceiling location. A removable cover allows easy access to the electronics for servicing. Available with battery backup **BB** or **AC** supply only. The **REC** and **REP** models do not require a remote power supply.




### MOUNTING DATA & DIMENSIONS:




## INVERTED SURFACE MOUNT - Option: INV

**Application:** Inverted exit legend & canopy mount provide a perfect solution to difficult mounting situations.




*Inverted Surface Mount*

## ARROW CONFIGURATION

| | SINGLE FACE | DOUBLE FACE | |
|---|---|---|---|
| **NA** (No Arrow) | EXIT | EXIT | EXIT |
| **AB** (Arrow Both) | <EXIT> | <EXIT> | <EXIT> |
| **AR** (Arrow Right) | EXIT> | | |
| **AL** (Arrow Left) | <EXIT | | |
| **LR** (Single Arrow) | | <EXIT | EXIT> |

# CUSTOM GRAPHICS

The following is a partial list of the more common Custom Graphics that can be supplied on CRYSTAL Edge Lit *Series CR*S & *Series CRR* at current date. Specify color of illumination and background when placing order.

Custom lens sizes are available with the CRYSTAL Edge lit Series. Any graphic or legend can be produced: just email or fax a sample drawing. Set up charges are required for custom graphics not in stock. Contact factory for up to date list of stock graphics.



-C01



-C02



-C03



-C04



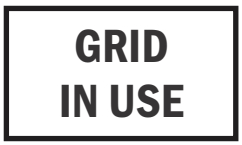
-C05



-C06



-C07



-C08



-C09



-C10



-C11



-C12



-C13



-C14



-C15



-C16



-C17



-C18


-C19


-C20


-C21


-C22


-C23

**DISTRIBUTOR**

**Contact Signtex for layout assistance.**
**Code compliant emergency lighting layouts provided!**