BARRON EXITRONIX

# S900 Series

*UNIVERSAL SWIVEL MOUNT LED EDGE-LIT EXIT SIGN*

Model Number:

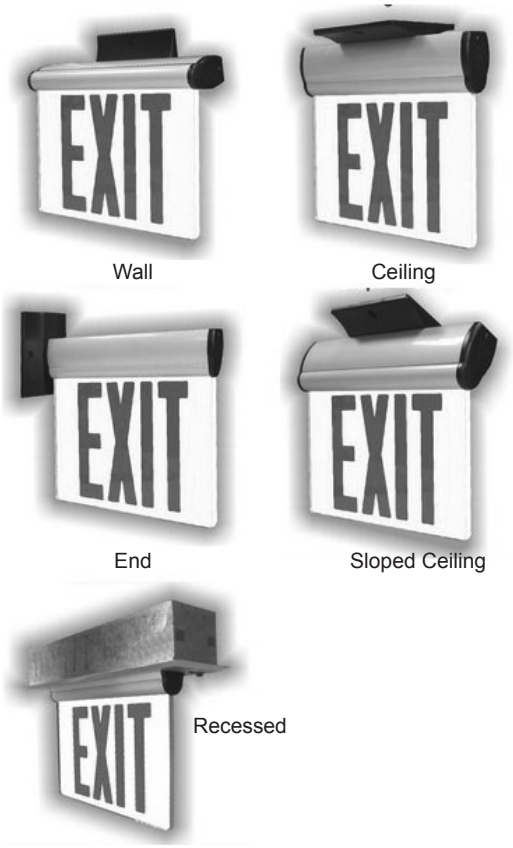
Accessories:

Job: Type:

Approvals:

**FEATURES**

- Pivoting design for simple installation in any application, including wall, ceiling, sloped ceiling or recessed mounting in single or double face configurations
- Truly universal ("SR") model includes surface mounting canopy as well as back box for recessed mounting applications
- Die-cast aluminum housing with high-grade, optically true, acrylic panel
- Compact, low profile design
- Low energy consumption
- Mirror panel supplied as a standard on all double-faced signs
- ETL listed 90 minute emergency run time, 24 hour recharge time
- Low voltage disconnect eliminates deep discharge
- Optional Guardian Self-Test/Self-Diagnostics (G2) available
- Constant, uniform illumination by long-life, high intensity, red or green LEDs
- Fully-illuminated 6" characters with 3/4" stroke
- Field applicable chevrons provided
- 120/277V dual primary, 60Hz input
- Standard finishes: White or brushed aluminum
- Suitable for damp location




**WARRANTY**

Any component that fails due to manufacturers defect is guaranteed for 5 years with a separate 3 year pro-rated warranty on the battery. The warranty does not cover physical damage, abuse or acts of God. Manufacturer reserves the right to charge for such repairs if deemed necessary.

5/3 WARRANTY

SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE

**ORDERING INFORMATION** **Example:** S902-WB-SR-RM-BA-G2

| **Series** | **Power Source** | **Mounting** | **Panel Color** | **Finish** | **Options** (Factory Installed) |
|---|---|---|---|---|---|
| S902 = Single Face | LB = AC Only | S = Surface | **Single Face** | WH = White | G2 = Self-Test/Self-Diagnostics |
| S903 = Double Face | WB = With Battery | SR[1] = Universal | RC = Red Letters/Clear Panel | BA = Brushed Alum. | |
| | | | GC = Green Letters/Clear Panel | | |
| | | | **Double Face** | | |
| | | | RM = Red Letters/Mirror Panel | | |
| | | | GM = Green Letters/Mirror Panel | | |

[1] SR option includes kits for surface & recessed mounting

## CONSTRUCTION

### Housing
Available in either a powder coated or brushed aluminum finish.

### Surface Mounting
Engineering grade aluminum extrusion with mounting canopy

### Recessed Mounting
Extruded aluminum housing supplied with galvanized steel adjustable bar hanger assembly.

### Panels
Constructed of high quality, optically true, clear acrylic with beveled lettering for maximum light output. Exit letters are 6" high with a 3/4" stroke. Double face panels are supplied with a mirror insert. Units are supplied with press-on directional arrows for placement in all applications.

Stencil letters are 6” high with 3/4” stroke, with minimum of 100 ft viewing distance rating as required by UL924 standard.

## ILLUMINATION
High output red or green LEDs provide superior brightness. Energy consumption of less than 3 watts for AC only or less than 5 watts for battery back-up units. LEDs are a maintenance-free solution, providing up to 100,000 hours of use without failure.

## ELECTRICAL

### Input
Dual-voltage input 120 or 277VAC @ 60Hz

### Sealed Nickel Cadmium Battery - NiCad (With Battery Only)
Exitronix sealed nickel cadmium batteries are maintenance-free with a life expectancy of 15 years. Nickel cadmium batteries offer high discharge rates and continue to perform in a vast temperature range from 0-40 degrees C. NiCad technology provides long lasting, safe and reliable performance by utilizing the jelly-roll design and allows a Ni-Cad cell to deliver a much higher maximum current than an equivalent size alternative battery. As a relatively larger area of the electrode is in contact with the active material in each cell, the internal resistance for an equivalent sized NiCad cell is lower which increases the maximum current that can be delivered.

### Brownout Circuit
The brownout circuit monitors the flow of AC current to the unit and triggers the emergency lighting system once a set reduction of AC power occurs. This dip in the voltage will cause many fixtures to extinguish causing loss of normal lighting even though a total power failure has not occurred.

### Low Voltage Disconnect
When the battery’s terminal voltage falls below predetermined levels, the low-voltage circuit disconnects the emergency lighting load. The disconnect remains in effect until normal power is restored, preventing deep battery discharge and improving the life of the battery. The disconnect will also automatically reconnect the load circuit once the battery voltage returns to a normal value after charging.

### Solid-State Transfer
The unit features a solid-state switching transistor which eliminates damaged contacts or mechanical failures associated with relays. The switching circuit is designed to detect a loss of AC power and automatically energizes the lamps. Upon restoration of the AC voltage, the emergency lamps will switch off and the charger will automatically recharge the battery.

### Overload and Short-Circuit Protection
The solid-state overload monitoring system in the DC circuit disconnects the lamp load from the battery should excessive wattage demands be made and automatically resets when the overload or short-circuit is removed. This overload current protective characteristic eliminates the need for fuses or circuit breakers for the DC load.

### Test Button
Our easily located test button allows for manual verification of proper operation of the transfer circuit and emergency lamps.

## INSTALLATION
Surface Mounting: Completely universal canopy provides for side, ceiling or flush mounting. All hardware is included.

Recessed Mounting: Recessed ceiling mount, accessible above the plenum. Electronics and battery contained in housing. Plug-in battery connector supplied for easy installation. All hardware is included.

## OPTIONS

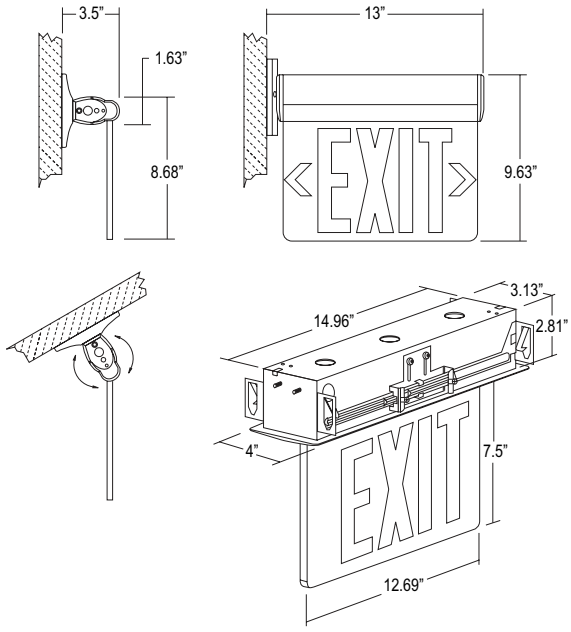
### Guardian Self-Test/Self-Diagnostics (Option: G2)
The Guardian circuit continuously monitors the operating condition of the AC power, battery supply voltage, emergency lamp continuity and charging circuit.

The purpose of this option is to provide visual signaling in response to a fault at the EXIT sign battery and/or battery charger. If a failure is detected, visual status will occur immediately via the CHARGER LED and/or the BATTERY FAULT LED. The LEDs will stay illuminated until the fault is corrected.

The Guardian circuit also monitors the transfer circuit as well as performing automatic code compliant testing. The Guardian circuit will perform a 30 second discharge and self-test every 28-30 days. A 90 minute discharge and self-test is performed every 6 months.

## CONFORMANCE TO CODES & STANDARDS
The S900 Series is ETL listed and meets or exceeds the following: UL 924, NEC requirements and NFPA 101.

## DIMENSIONS




BARRON lighting group

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