

# CHLORIDE SYSTEMS

TYPE: \_\_\_\_\_

CATALOG NO.: \_\_\_\_\_

## GENERAL DESCRIPTION

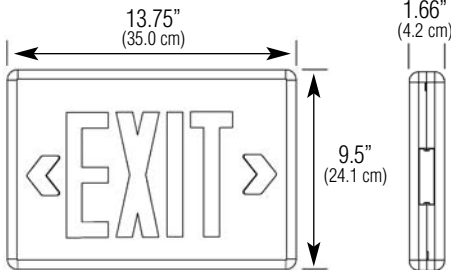
The Symmetry Series thermoplastic LED exit combines an appealing design, high impact thermoplastic and high performance electronics to ensure reliability. Softly rounded corners and the universal mounting configuration allow the product to blend nicely with all modern interiors. The Symmetry Series has been engineered to ensure ease of installation, as well as provide years of low cost, efficient service. The simplified installation process makes the Symmetry Series LED Exit both a preferred specification product and electrical contractor favorite. The Symmetry Series meets the Buy American requirements.

## ILLUMINATION

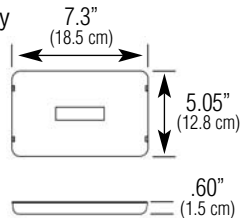
Illumination of the exit stencil face is accomplished with long lasting, high output Light Emitting Diodes (LEDs). Hot spots and striations are eliminated by the internal "light chamber" specially designed around the high performance LED array.

## DIMENSIONS

Front View



Canopy



Dimensions are approximate and subject to change.

# Symmetry I Series

## Commercial Grade Thermoplastic LED Exits AC Only and Self-Powered LED Illumination



SHOWN: SLN1RW

## HOUSING

Impact resistant, UL 94 V-0, 5 VA thermoplastic housing with NFPA-compliant, field-selectable chevrons. Chevrons can be installed/removed from outside the exit housing.

White and black housing finish is available.

Stencil face is easily removed for installation, maintenance and inspection.

UL damp location listing is available as a factory option.

Housing design simplifies installation, and does not require hard wire terminations inside of the exit housing. The installation process enables the installer to easily make all wiring connections in the junction box, while all mechanical connections between the exit housing and canopy are made tool free.

## ELECTRONICS

**AC Only** - 120/277 VAC dual voltage input with surge protection.

**Self-Powered** - 120/277 VAC dual voltage input with surge-protection, solid-state circuitry provides for a reliable charging system.

Charging system is complete with low voltage disconnect, AC lockout, brownout protection, AC indicator lamp and test switch. Optional 12 VDC input from remote emergency power source.

## BATTERY

Maintenance free, sealed nickel cadmium battery

Supplies 90 minutes of emergency power

Estimated service life of 10 years

Operating temperature range of 20°F (-7°C) to 95°F (35°C)

Batteries can be serviced by easily removing the exit stencil front for battery inspection and/or replacement.

## CODE COMPLIANCE

UL 924 listed

UL damp location listing optional 50°F (10°C) to 104°F (40°C)

NFPA 101, NEC, BOCA, OSHA and IBC illumination standards

## ELECTRICAL SPECIFICATIONS

Input power requirements at 120 VAC

### AC Only

Red - .89 watts

Green - 2.17 watts

### Self-Powered

Red - 3.62 watts

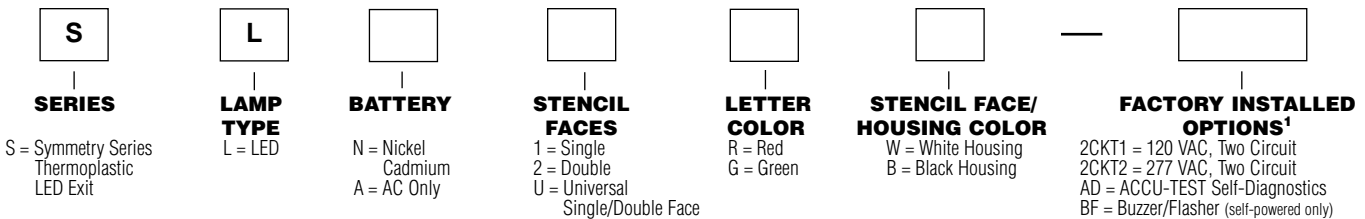
Green - 2.79 watts

## WARRANTY

Five year full electronics warranty

Five year full plus five year prorated battery warranty

## ORDERING INFORMATION (EXAMPLE: SLN1RW)



## ACCESSORIES (order as a separate line item)

SPKIT12WH<sup>2</sup> = Pendant Kit, 12" white  
SPKIT12BK<sup>2</sup> = Pendant Kit, 12" black

## NOTES:

- Some option combinations may impact UL listing. Consult factory for specifics.
- Custom pendant lengths and colors available, consult factory.

# Specification Data for Symmetry I Series Thermoplastic LED Exit

## HOUSING

Impact resistant, UL 94 V-0, 5 VA thermoplastic housing with NFPA-compliant, field-selectable chevrons. Chevrons can be installed/removed from outside the exit housing. White and black product finish is available. UL damp location listing is available as a factory installed option.

Mechanical and electrical connections allow installation to a standard ceiling or wall mounted junction box without the need to make hard wire terminations within the exit housing.

The standard product can be top, end, or back-to-wall mounted, simply by selecting the access port located on the top, end or back of the exit enclosure. All access ports incorporate mechanical connections for direct installation to standard junction boxes via the mounting canopy.

## INSTALLATION

The canopy installs to a standard junction box by using screws supplied with the junction box, or by utilizing "no tools" connectors supplied with the Symmetry Series Exit product.

Electrical power supply connections are made using the modular plug assemblies supplied with the product, and are routed through the center of the canopy for connection to the mating plug assembly furnished with the exit housing.

The Symmetry exit housing will mechanically "snap-fit" to the canopy. Once connected the Symmetry exit will route AC normal utility power and begin charging the battery when it recognizes AC utility power is available.

## ELECTRONICS

### AC Only and Emergency Operation

Dual voltage 120/277 VAC input with surge protection is standard.

### Self-Powered

All components are located within the exit housing.

An indicator light is located on the bottom of the housing to signify that AC utility is present.

AC lockout prevents battery drain prior to the initial energizing of utility power.

The low voltage disconnect (LVD) feature will disconnect the battery prior to an unacceptable deep discharge, but not before the required 90 minute emergency operation.

The brownout protection circuitry will automatically switch the unit into the emergency mode if the utility voltage sags below 20% of nominal.

Battery charging circuitry is entirely solid-state, and of a constant current design. Battery recharge time after a complete discharge is less than the required UL 924 standard.

Solid-state circuitry causes an instantaneous transfer to battery power if either the loss of AC utility, or a brownout condition is detected. When line voltage is present and stabilized, the transfer circuitry switches back to normal operation and begins recharging the battery. The transfer circuitry can be tested via a momentary test switch located on the bottom of the housing.

## BATTERY

A maintenance free, sealed nickel cadmium battery is standard. Construction is of the sintered plate design and the battery assembly is equipped with a quick connect plug assembly for easy installation.

Standard sustained emergency operation is for 90 minutes with the illumination source providing full light output.

The suggested operating temperature range of 20°F (-7°C) to 95°F (35°C) should provide a service life of 10 years.

## ELECTRICAL SPECIFICATIONS

### Input power requirements at 120 VAC

#### **AC Only**

Red - .89 watts

Green - 2.17 watts

#### **Self-Powered**

Red - 3.62 watts

Green - 2.79 watts

## CODE COMPLIANCE

The Symmetry Series meets or exceeds all performance standards as required by UL 924, NFPA 101, NEC, BOCA, OSHA and IBC.

## SUGGESTED SPECIFICATION

Furnish and install Chloride's LED exit sign model \_\_\_\_\_. The exit shall be constructed to meet Underwriter's Laboratories, Inc. Standard #924 and the National Electrical Code (NEC).

**INSTALLATION AND OPERATION** - Exit shall be easily field connected to a 120 or 277 VAC, 60 hertz, unswitched power source. Installation must comply with the NEC as well as other applicable codes. Product installation should not require entry inside of the exit housing to make or arrange wiring connections in the field. Mechanical connections to standard junction boxes shall be accomplished by utilizing the access ports and canopy connector supplied with the product. (Self-Powered Only) - Upon utility power failure or brownout, the unit shall automatically transfer to battery power and maintain the required illumination level for a minimum period of 90 minutes. Upon restoration of utility power, the charger shall restore the battery to full charge within UL 924 requirements following a rated discharge of not more than 90 minutes.

**CHARGER (Self-Powered Only)** - Product shall utilize a solid-state, constant current charging system which will maintain the battery at full capacity without the need for periodic exercising or equalization. The following features shall be standard: low voltage disconnect (LVD), brownout protection and AC lockout. Circuitry shall include both a "push-to-test" switch and "utility power present" indicator LED.

**BATTERY (Self-Powered Only)** - The battery shall be maintenance free, sealed nickel cadmium utilizing sintered plate construction and polypropylene separators for trouble-free operation in ambient temperatures up to 85°F (30°C). Nickel cadmium batteries are supplied with a five year warranty.

**ILLUMINATION** - The Symmetry Series indirect view LED exit signs shall incorporate high intensity LEDs. The LEDs shall be designed so that the unlikely failure of one LED will not affect the integrity of the total sign in the emergency mode. The Symmetry Series exit equipped with red LEDs shall consume .89 watts (120 VAC) or 3.62 watts (Self-Powered). The Symmetry Series exit equipped with green LEDs shall consume 2.17 watts (120 VAC) or 2.79 watts (Self-Powered).

**HOUSING** - The Symmetry Series LED exit housing shall be constructed of impact resistant, UL 94 V-0, 5 VA thermoplastic, with NFPA-type field selectable chevrons. The chevrons can be configured for direction in the field without removal of the exit stencil. The housing, stencil and canopy finish shall be either white or black. Mechanical connection of the exit housing to the junction box shall be accomplished without any requirement to open the exit housing for wiring or mechanical terminations.

ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.



**CHLORIDE**  
SYSTEMS

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