

## GENERAL DESCRIPTION

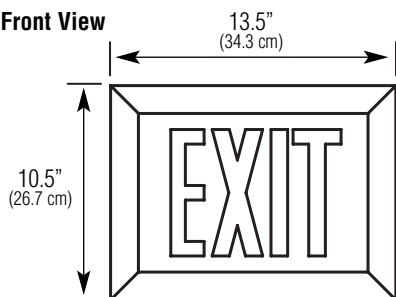
The Infinity II Series Institutional Exits are designed for low level applications. This exit is also suitable for master/remote applications where a low level sign is powered by a master sign located over the exit door. A polycarbonate face plate is included for increased protection against accidental or intentional abuse.

## ILLUMINATION

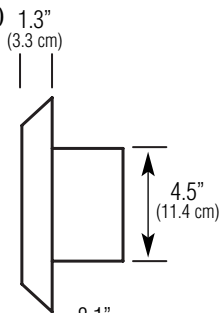
Illumination of the exit stencil face is accomplished with long lasting, high output LEDs.

## DIMENSIONS

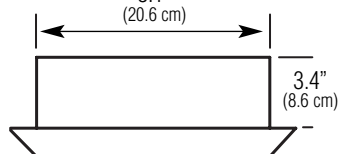
### Front View



### Side View for Self-Contained (LSPN)



### Side View for AC Only (LAC)



Dimensions are approximate and subject to change.

# Infinity II Series

## Institutional Frame

### AC Only and Emergency Operation

### LED Illumination



## HOUSING

White or black extruded aluminum frame.

Low profile 1<sup>1</sup>/<sub>4</sub>" beveled edge frame.

White, black, or brushed aluminum face plate with polycarbonate vandal resistant lens.

20 gauge steel backbox contains electronics for emergency operation.

NFPA-type field selectable chevrons.

Used for remote operation when selecting "LL" option for the Symmetry I, Symmetry I Combo, or CX Series Master Exits.\*

\* When used as "LL" remote option with Symmetry I or CX Series exits, a 15' low voltage cable is provided for connection with master unit above door.



SHOWN: LSPNBEAR

## ELECTRONICS

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

**Self-Powered** - 120/277 VAC dual voltage input with surge-protected, 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.

## 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)

## CODE COMPLIANCE

UL 924 listed

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

## ELECTRICAL SPECIFICATIONS

### AC Only

Red = 0.012A (120 VAC), 0.005A (277 VAC)

Green = 0.012A (120 VAC), 0.005A (277 VAC)

### Self-Powered

Red = 0.059A (120 VAC), 0.014A (277 VAC)

Green = 0.059A (120 VAC), 0.014A (277 VAC)

## WARRANTY

Three year full electronics warranty

Five year full plus five year prorated battery warranty

## ORDERING INFORMATION (EXAMPLE: LSPNBEAR)



### SERIES/BATTERY

LAC = Infinity II LED, AC Only<sup>2</sup>  
(Does not require backbox unless options are included)

LSPN = Infinity II LED, Nickel Cadmium Battery



### FRAME COLOR

BEA = Black  
WEA = White



### LETTER COLOR

R = Brushed Aluminum w/ Red Letters  
G = Brushed Aluminum w/ Green Letters  
WR = White w/ Red Letters  
WG = White w/ Green Letters  
BR = Black w/ Red Letters  
BG = Black w/ Green Letters



### FACTORY INSTALLED OPTIONS<sup>1</sup>

2CKT1 = 120 VAC Two Circuit  
2CKT2 = 277 VAC Two Circuit  
BF = Buzzer/Flasher (Emergency Only)  
BZ = Buzzer (Emergency Only)  
EX = Special Input Transformer (specify voltage and frequency)  
FA = 24 VDC Fire Alarm Interface  
FL = Emergency Flasher  
TP = Tamperproof (Must order T15TPTOOL accessory)

## ACCESSORIES (order as a separate line item)

T15TPTOOL = Tamperproof Screwdriver

### NOTES:

1) Some option combinations may impact UL listing. Consult factory for specifics.  
2) AC only version can be flush mounted to wall surface.

# Specification Data for Infinity Series II Institutional LED Exit

## HOUSING

Beveled edge frame is constructed of extruded aluminum and measures 1¼".

Frame is available in black or white, stencil face is available in brushed aluminum, black, or white and includes a polycarbonate vandal resistant lens.

NFPA -type chevrons are field selectable.

20 gauge steel backbox contains electronics for emergency operation version.

## MASTER/REMOTE APPLICATION

This exit is suitable as a remote exit where a low level exit is powered by an exit over the door. To order master/remote for low level applications, refer to the Chloride specification sheets for Symmetry Series and CX Series. Order code is noted as "LL" in options section. No recessed backbox is required for master/remote application, or AC only versions with no options.

## ELECTRONICS

### AC Only

120/277 VAC dual voltage input with surge protection is standard

### Self-Powered

120/277 VAC dual voltage input with surge protected, solid-state charging circuitry provides for a reliable charging system. The charging system is furnished with low voltage disconnect, AC lockout, brownout protection, AC indicator lamp and test switch.

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 AC lockout feature prevents battery drain prior to the initial energizing of utility power, and allows the installer to complete all wiring and electrical connections without energizing the emergency circuit.

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 utilizes a constant current charger. Battery recharge time after full discharge is less than the required UL 924 standard.

Line sensitive electronics cause an instantaneous transfer to battery power if utility power is lost, 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 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 LED 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

### AC Only

Red = 0.012A (120 VAC), 0.005A (277 VAC)  
Green = 0.012A (120 VAC), 0.005A (277 VAC)

### Self-Powered

Red = 0.059A (120 VAC), 0.014A (277 VAC)  
Green = 0.059A (120 VAC), 0.014A (277 VAC)

## CODE COMPLIANCE

The Infinity II Institutional LED Exit 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. (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 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. Five year warranty provided.

**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 95°F (35°C). Nickel cadmium batteries shall be supplied with a five year warranty.

**ILLUMINATION** - The Infinity II Series institutional exit signs shall incorporate high intensity LEDs. The AC Only version with red LEDs shall consume 0.012A (120 VAC) or 0.005A (277 VAC). The AC Only version with green LEDs shall consume 0.012A (120 VAC) or 0.005A (277 VAC). The Self-Powered version with red LEDs shall consume 0.059A (120 VAC) or 0.014A (277 VAC). The Self-Powered version with green LEDs shall consume 0.059A (120 VAC) or 0.014A (277 VAC).

**HOUSING** - The exit sign frame shall be constructed of extruded aluminum with a 1¼" beveled edge design. The frame shall be white or black with a brushed aluminum, black, or white stencil face. A polycarbonate lens shall be standard.



**CHLORIDE**  
SYSTEMS

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