

# CHLORIDE SYSTEMS

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

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

## GENERAL DESCRIPTION

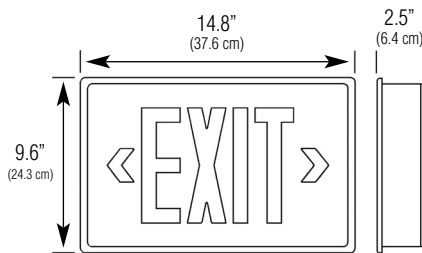
The CX Series Fully Recessed Die Cast Aluminum LED Exit combines a fully recessed design, the latest in die casting technology and high performance electronics to ensure reliability. The installed recessed sign blends nicely with all modern interiors.

## ILLUMINATION

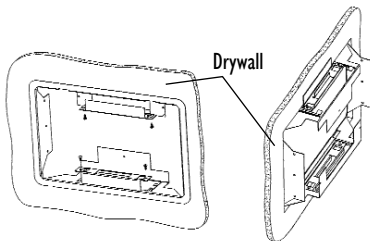
Illumination of the exit stencil face is accomplished with long lasting, high output Light Emitting Diodes (LEDs). Hot spots and striations are eliminated by a combination of indirect and direct aiming points covering the exit stencil face.

## DIMENSIONS

### Front and Side Views of Installed Sign



### Front and Back Views of Recessed Frame and Mounting Brackets



Wall Cutout: 9.12" x 13.75"

Dimensions are approximate and subject to change.

# CX Series

## Fully Recessed Die Cast Aluminum Exits AC Only and Self-Powered LED Illumination



### HOUSING

Three-piece die cast aluminum construction with NFPA-type field selectable chevrons.

Housing and stencil face castings are available with durable epoxy-based powder coat paint finishes. A brushed aluminum stencil face is also available.

A positive latching exit stencil face provides secure closure yet is easily accessible for installation, maintenance and inspection.

Vandal resistant versions include tamper resistant hardware and a .08" thick polycarbonate protective lens mounted outside the exit stencil.

### Recessed Frame

Includes 20 gauge galvanized steel mounting frame for fully recessed drywall installations. The outer trim flange is painted white or black to match the exit stencil or wall finish.

Slim 2.5" recessed depth allows mounting flexibility in shallow aluminum stud wall systems, as well as standard wood stud/sheetrock applications.

### ELECTRONICS

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

**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.

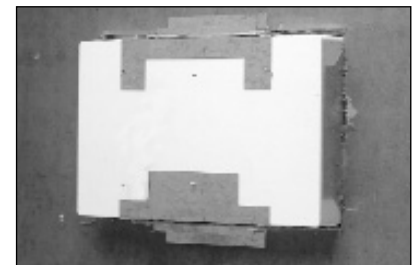
### BATTERY

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)



SHOWN: CXLN1RWFRW (front view)



SHOWN: CXLN1RWFRW (back view)

### CODE COMPLIANCE

UL 924 listed  
NFPA 101, NEC, BOCA, OSHA and IBC illumination standards

### ELECTRICAL SPECIFICATIONS

Input power requirements at 120 VAC

**AC Only**

Red - 3.32 watts, Green - 4.11 watts

**Self-Powered**

Red - 4.39 watts, Green - 3.52 watts

### WARRANTY

Three year full electronics warranty

Five year full, 5 year prorated battery warranty

## ORDERING INFORMATION (EXAMPLE: CXLN1RWFRW)

CX	L		1				
<b>SERIES</b>	<b>LAMP TYPE</b>	<b>BATTERY</b>	<b>STENCIL FACES</b>	<b>LETTER COLOR</b>	<b>STENCIL FACE/ HOUSING COLOR</b>	<b>TRIM FRAME</b>	<b>FACTORY INSTALLED OPTIONS</b>
CX = Die Cast Aluminum Exit	L = LED	N = Nickel Cadmium A = AC Only	1 = Single	R = Red G = Green	A = Natural Brushed Aluminum Stencil Face B = Black Stencil Face W = White Stencil Face	FRW = White Trim Frame FRB = Black Trim Frame	2CKT1 = 120 VAC, Two Circuit 2CKT2 = 277 VAC, Two Circuit BF = Buzzer/Flasher (Emergency units only) BZ = Buzzer (Emergency units only) DC6 = 6 VDC Remote Emergency Power DC12 = 12 VDC Remote Emergency Power EX = Special Input Transformer (Specify voltage & frequency) FA = 24 VDC Fire Alarm Interface FL = Emergency Flasher LCR = Low Level Matching Exit TP = Tamperproof VRS = Vandal Resistant Lens with Tamperproof Hardware

### ACCESSORIES (order as a separate line item)

T15TPTOOL = Tamperproof Screwdriver

NOTE: Some option combinations may impact UL listing. Consult factory for specifics.

# Specification Data for CX Series Fully Recessed Die Cast Aluminum LED Exit

## HOUSING

Three-piece construction from heavy duty die cast aluminum alloy.

Choose from black or white frame with brushed aluminum stencil face, black frame with black stencil face, or white frame with white stencil face.

NFPA-type chevrons are field selectable and brushed smooth after insertion to prevent unattractive sight lines.

## Recessed Frame

The 20 gauge galvanized steel mounting frame utilizes an easy to adjust drywall clamping bracket which can accommodate wall thicknesses from 1/4" to 3/4".

Conveniently located knockouts in the rear housing can accommodate direct connection to a junction box. A centrally located 1/2" knockout is available for connection to a 90 degree Bx cable connector.

The recessed mounting frame kit is ideal for applications requiring low level exit signage. When used in conjunction with the vandal resistant lens (VR option) and tamperproof lockup (TP option), the CX Series Fully Recessed Die Cast Exit can be located in high abuse areas.

## Vandal Resistant Options

The CX Series incorporates an optional .08" thick polycarbonate lens externally mounted. Tamperproof screws fully secure the exit from unwanted entry.

## ELECTRONICS

### AC Only and Self-Powered

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 stencil face 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 LED illumination source providing full light output. Extended run times are available as an option.

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

## ELECTRICAL SPECIFICATIONS

### Input power requirements at 120 VAC

#### AC Only

Red - 3.32 watts, Green - 4.11 watts

#### Self-Powered

Red - 4.39 watts, Green - 3.52 watts

## CODE COMPLIANCE

The CX 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. (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 are supplied with a five year warranty.

**ILLUMINATION** - The CX 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 CX Series exit equipped with red LEDs shall consume 3.32 watts (120 VAC) or 4.11 watts (Self-Powered). The CX Series exit equipped with green LEDs shall consume 4.39 watts (120 VAC) or 3.52 watts (Self-Powered).

**ENCLOSURE** - The exit sign housing shall be constructed of heavy duty die cast aluminum. The final housing finish shall be an epoxy-based powder coat paint. The exit stencil face shall be constructed of the same aluminum alloy and will be completed with a brushed finish or matching paint. Chevron direction shall be field selectable, and if left in place will not disturb the visual line of the exit face. Product shall be furnished with a 20 gauge galvanized steel recessed mounting frame, which is compatible with all thicknesses up to 3/4", and can be installed during the rough-in construction stage, without exposing final product to paint overspray or job site dust.



**CHLORIDE**  
SYSTEMS

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