

CHLORIDE SYSTEMS

TYPE: _____

CATALOG NO.: _____

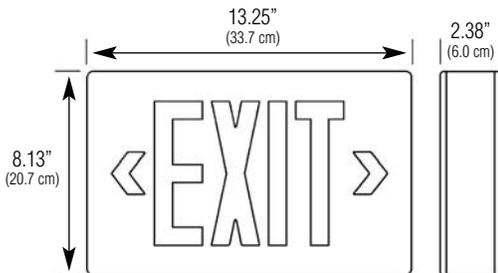
GENERAL DESCRIPTION

Chloride's classic die cast LED exit is ideal for locations that require an attractive, highly reliable exit sign. All associated electronics are contained within the exit frame for low profile mounting.

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" especially designed around the high performance LED array. Average illumination levels are in excess of 25ftl (79 cd/m²)

DIMENSIONS



Standard Canopy



Dimensions are approximate and subject to change.

*Self-powered models incorporate the Intelli-Charge diagnostics electronics package. Self-testing is a factory installed option.

CX Series

Specification Grade Die Cast Aluminum Exits AC Only and Self-Powered Standard Self-Diagnostics Electronics* LED Illumination



SHOWN: CXLN1RWIC

HOUSING

Two-piece die cast aluminum construction with NFPA-compliant 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. Universal knockouts located on backplate allow for wall mounting directly to standard junction boxes. A mounting canopy is provided for top/side mount applications.

ELECTRONICS

AC Only - 120/277 VAC dual voltage input with surge protection is standard on all models.
Emergency Operation - Charging system is microprocessor driven with software embedded diagnostic routine and temperature compensation. See specification sheet C1465 for electronics details. 120/277 VAC input, surge protection, brownout, AC lockout and low voltage disconnect features are standard.

INTELLI-CHARGE SELF-TESTING DIAGNOSTICS (OPTIONAL)

The Intelli-Charge diagnostic/charging platform with self-testing mode automatically runs a one-minute self-test every 30 days and a 30-minute test on the sixth and twelfth month. A one-minute or 90-minute test may be initiated via the push to test switch on the unit or by activating the appropriate test command on the optional IR test device.

OPERATING TEMPERATURE RANGE

AC-Only Models: -40°F (-40°C) to 113°F (45°C)
Self-Powered Models: 32°F (0°C) to 104°F (40°C)

ELECTRICAL SPECIFICATIONS

AC Only Operation - Input Power Requirements

Red - 3.8 watts (120 VAC), PF = 0.96
3.8 watts (277 VAC), PF = 0.91
Green - 4.0 watts (120 VAC), PF = 0.95
4.0 watts (277 VAC), PF = 0.90

Self-Powered - Input Power Requirements

Red - 4.7 watts (120 VAC), PF = 0.95
4.8 watts (277 VAC), PF = 0.97
Green - 4.7 watts (120 VAC), PF = 0.95
4.7 watts (277 VAC), PF = 0.99

CODE COMPLIANCE

UL 924 listed, UL Damp Location Listing Optional NFPA 101, NEC, BOCA, OSHA and IBC illumination standards

Certified to the California Energy Commission in accordance with California law IEC 61951-1 Life Testing (batteries)

BATTERY

Maintenance free, sealed nickel cadmium battery
Estimated service life of 10 years
Operating temperature range of 32°F (0°C) to 104°F (40°C)

WARRANTY

Five year full electronics warranty
Five year full plus five year pro-rated battery warranty

ORDERING INFORMATION (EXAMPLE: CXLN1RWIC)

CX	L					IC		
SERIES	LAMP TYPE	BATTERY	STENCIL FACES	LETTER COLOR	STENCIL FACE/HOUSING COLOR	MODEL DESIGNATOR	FACTORY INSTALLED OPTIONS ¹	
CX = Die Cast Aluminum Exit	L = LED	N = Nickel Cadmium A = AC Only	1 = Single 2 = Double	R = Red G = Green	A = Natural Brushed Aluminum Face w/ Black Housing B = Black Stencil Face w/ Black Housing N = Natural Brushed Aluminum Face w/ Natural Brushed W = White Stencil Face w/ White Housing WA = Natural Brushed Aluminum Face w/ White Housing	IC = Intelli-Charge Diagnostics	2CKT1 = 120 VAC Two Circuit Wiring 2CKT2 = 277 VAC Two Circuit Wiring BF = Buzzer/Flasher (emergency units only) BZ = Buzzer (emergency units only) DC = 12-48 VDC Input Power (AC only models) DL = Damp Location Listing EX = Special Input Transformer (specify voltage and frequency) FA = 24 VDC Fire Alarm Interface (regulated constant DC voltage) FL = Flasher (emergency units only) LC = Low Level Matching Die Cast Remote Exit ⁴ LL = Low Level Institutional Frame Surface Mount Remote Exit ⁴ PM = Pendant Mount Only (must order pendant kit accessory) ² SW = Special Wording/Graphics ³ T = Self-Testing Diagnostics (non-audible) TA = Audible Self-Testing Diagnostics TP = Tamperproof VRS = Vandal Resistant Lens with Tamperproof Hardware	

ACCESSORIES (order as a separate line item)
 CXKIT12W = Pendant Kit, 12" White Finish
 CXKIT12B = Pendant Kit, 12" Black Finish
 ICIR = Intelli-Charge Infra-Red Remote
 T15TPTOOL = Tamperproof Screwdriver
 PCS1 = Polycarbonate Vandal Shield
 WG4 = Wire Guard
 WG10 = Wire Guard for Side Mounting

NOTES:
 1) Some option combinations may impact UL listing. Consult factory for specifics.
 2) Must specify "PM" option for compatibility with pendant kit.
 3) Utilizes larger housing - 13.5 x 8.5 x 2.5
 4) Not available with Intelli-Charge option

Specification Data for CX Series Standard Die Cast Aluminum LED Exit

HOUSING

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

Standard housing finish incorporates black or white epoxy-based powder coat paint. Standard stencil face finish for the black housing is brushed aluminum. A matching white stencil face is standard for the white housing.

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

The mounting canopy is constructed from heavy duty die cast aluminum alloy and is painted to match frame color.

The CX Series housing can be wall mounted without the use of a mounting canopy. Provisions are available via universal knockouts for direct mounting to a recessed junction box. Knockouts allow top or end mounting of product utilizing matching canopy.

ELECTRONICS

AC Only and Self-Powered

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

Self-Powered

A dual function indicator light is located on the face of the unit to signify that AC utility is present, as well as indicating the charge status.

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 drops below 85% of nominal.

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 32°F (0°C) to 104°F (40°C) and should provide a service life of 10 years.

The battery is compliant with IEC standard 61951-1.

ELECTRICAL SPECIFICATIONS

AC Only Operation - Input Power Requirements

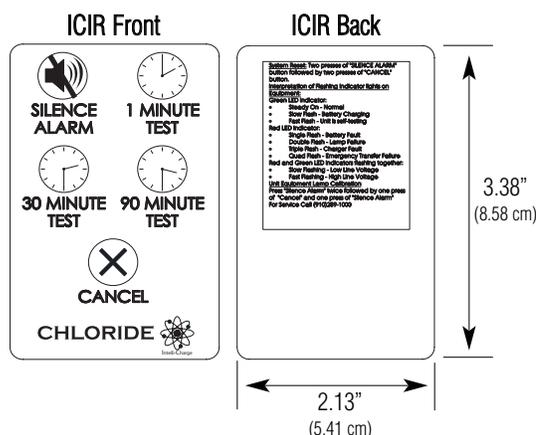
Red – 3.8 watts (120 VAC), PF = 0.96
3.8 watts (277 VAC), PF = 0.91
Green – 4.0 watts (120 VAC), PF = 0.95
4.0 watts (277 VAC), PF = 0.90

Self-Powered - Input Power Requirements

Red – 4.7 watts (120 VAC), PF = 0.95
4.8 watts (277 VAC), PF = 0.97
Green – 4.7 watts (120 VAC), PF = 0.95
4.7 watts (277 VAC), PF = 0.99

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.

ELECTRONICS AC-Only Models - The CX Series exit sign shall be easily field connected to 120 or 277 VAC, 60 HZ un-switched power source. The CX Series exit sign equipped with red LED's shall consume 3.8 watts with a power factor of 0.96 (120 VAC) and 3.8 watts with a power factor of 0.91 (277 VAC). The CX Series exit sign equipped with green LED's shall consume 4.0 watts with a power factor of 0.95 (120 VAC) and 4.0 watts with a power factor of 0.90 (277 VAC). Available, factory-installed options shall include a two-circuit module to accommodate 120/120 or 277/277 VAC for use with a generator or central inverter system; A fire alarm activated flasher option to accommodate an input from a fire alarm panel and provide a flashing rate when the alarm system is activated.

Self-Powered Models - All self-powered models shall be provided with Chloride's Intelli-Charge diagnostics electronics platform. The exit sign shall be easily field connected to 120 or 277 VAC, 60 HZ un-switched power source. Intelli-Charge will detect and notify the installer regarding incorrect wiring of the transformer primary and restrict the damaging effects from affecting the printed circuit board. The CX Series exit sign equipped with red LED's shall consume 4.7 watts with a power factor of 0.95 (120 VAC) and 4.8 watts with a power factor of 0.97 (277 VAC). The CX Series exit sign equipped with green LED's shall consume 4.7 watts with a power factor of 0.95 (120 VAC) and 4.7 watts with a power factor of 0.99 (277 VAC). The Intelli-Charge electronics package shall provide continuous, real-time monitoring of all the critical equipment functions including, but not limited to: line voltage status and condition, charger fault, transfer fault, and LED load fault and notify personnel with a visual indicator sequence. Optional audible diagnostics as well as self-testing diagnostics shall be available from the factory. The self-testing option shall satisfy the periodic testing requirements in NFPA 101, Life Safety Code as well as the International Building Code (IBC). The Intelli-Charge circuit shall continuously sample ambient temperature conditions and adjust the charging regime to compensate for typical and dramatic ambient conditions to maximize the life of the battery. An on-board IR receiver shall be standard and pre-programmed to operate from an optional IR user interface device (available as an accessory item).

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 104°F (40°C). Nickel cadmium batteries are supplied with a five year warranty and comply with IEC 61951-1.

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.

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.



CHLORIDE
SYSTEMS

272 West Stag Park Service Road • Burgaw NC 28425
Telephone: (910) 259 1000 • Facsimile: (800) 258 8803
www.chloridesys.com

C1138R16
5/09 IH