Eluxa outdoor 3R/4X horn, horn-strobe and strobe

EL3RHN/EL4XHN Horn, EL3RST/EL4XST Strobe, EL3RHS/EL4XRHS Horn/Strobe

The Wheelock Eluxa weatherproof series EL3RHN/EL4XHN horn, EL3RST/EL4XST strobe, and EL3RHS/EL4XHS horn/strobe appliances are designed for easy installation with a pre-wire capable EL4XBB back box or EL3RMP mounting plate. All models are for 24V operation. The Eluxa 4X/3R horn is also for 12V operation. All Eluxa 4X/3R models are for indoor/outdoor use and wall or ceiling mount.

📶 Rugged

The cutting-edge solution delivers optimal performance thanks to its NEMA type 3R and 4X ratings, which make it resistant to corrosion, ice formation. The IP54 and IP66 ratings provide superior protection against dust and water, making it ideal for areas of high humidity, extreme heat, or severe cold.

👥⚙ Energy Efficient

With six candela settings in a single device, Eluxa features one of the industry's lowest current draws across the full candela range. The Eluxa outdoor product line reduces overall power consumption, allowing for more appliances on each circuit (NAC) and fewer power supplies.

🗎 Compliance and Approvals

- Certified to NEMA type 3R | 4X
- IP54 |IP66 Certified |Tested to IP67
- NFPA 72 2016 (Meets maximum light pulse duration of 20 ms)
- IEC 60529 2nd edition + amendment 3- August 2013
- FCC Part 15B / ICES-003- Class A
- UL 50 13th edition- October 2020
- UL 50E 3rd edition- October 2020
- UL464 11th edition: CAN/ULC 525 5th edition- May 2023
- UL1480 7th edition: CAN/ULC 541 5th edition- May 2023
- UL1638 6th edition: CAN/ULC 526 5th edition- April 2023
- California State Fire Marshal (CSFM)
- Factory Mutual (FM) - pending
- ADA/NFPA/ANSI/OSHA

☑ Complete and Compliant

The Wheelock Eluxa 3R/4X series meets NFPA 2016 20 millisecond light pulse duration code requirements. In addition, the Wheelock Eluxa and LED3 product lines have been UL/ULC listed as compatible with all Fire Alarm Control Panels (FACP) and accessories that have been determined to be compatible with Wheelock model RSS Strobe based products including the RSS, CH, E, EH, ET, ST, HS, MT, S8, SA, STH and Z Series. The maximum number of Eluxa devices per NAC is determined by dividing the maximum current rating of the FACP NAC by the total current rating of one Eluxa device, with a maximum of 105 Eluxa (or LED3) devices per NAC. Refer to FACP installation instructions for more detail. The Wheelock Eluxa Series and Exceder LED3 Series strobes may be installed in the same notification zone and field of view with any RSS Strobe based product.

F·T·N

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⬡ Complete and Compliant

Wheelock Eluxa 3R/4X Multi-Candela Strobes can provide a non-synchronized strobe appliance when connected directly to a Fire Alarm Control Panel (FACP), or provide a synchronized strobe appliance when used in conjunction with an FACP that incorporates the Cooper Wheelock sync protocol, a Dual Sync Module (DSM), or the Wheelock Power Supply.
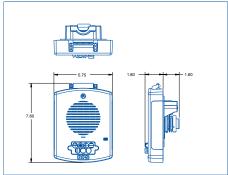
Drawings
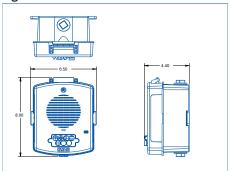
Figure 1. Eluxa outdoor 3R

Figure 2. Eluxa outdoor 4X

Table 1. EL3RHN/EL4XHN Horn current ratings (AMPS)

Input	Horn Setting	Regulated 12V (8-17.5V)	Regulated 24V (16-33V)
DC	CONT, T3, T3/T4 (H)	0.054	0.052
DC	CONT, T3, T3/T4 (L)	0.034	0.038
FWR	CONT, T3, T3/T4 (H)	0.102	0.102
FWR	CONT, T3, T3/T4 (L)	0.075	0.075

Table 1A: EL4X/3R Horn Sound Pressure Level Ratings (SPL)

Horn Setting	Reverberant dBA at 10Ft per UL464/ULC-525	
	SPL at 12V (HN Only)	SPL at 24V (HN and HS Models)
CONT, T3, T3/T4 (H)	83	90
CONT, T3, T3/T4 (L)	74	86

Table 1B: EL4X/3R Horn Directional Characteristics

-3dB	+/- 43 Degrees Horizontal, +/- 48 Degrees Vertical
-6dB	+/- 53 Degrees Horizontal, +/- 56 Degrees Vertical
-18dB	+/- 90 Degrees Horizontal/Vertical

Table 2. EL3RST/EL4XST Strobe Ratings

Strobe (Clear)	Regulated Voltage Range VDC	UL/ULC Max Current					
		24VDC |FWR					
		15	30	75	110	150	185
EL3RST	16.0-33.0	0.026	0.038	0.070	0.097	0.179	0.206
EL4XST	16.0-33.0	0.026	0.038	0.070	0.097	0.179	0.206
	FWR	0.034	0.053	0.098	0.137	0.235	0.308
Strobe (Amber)		**15**	**30**	**75**	**95**	**150**	**177**
EL3RSTA (Amber)	16.0-33.0	0.026	0.038	0.070	0.097	0.179	0.206
EL4XSTA (Amber)	16.0-33.0	0.026	0.038	0.070	0.097	0.179	0.206
	FWR	0.034	0.053	0.098	0.137	0.235	0.308

Table 3. EL3RHS/EL4XHS Horn-Strobe Ratings at 24V (AMPS)

Input	Horn Setting	Strobe Candela Setting					
		15cd	**30cd**	**75cd**	**95/110cd**	**150cd**	**177/185cd**
DC	CONT, T3, T3/T4 (H)	0.063	0.083	0.105	0.127	0.193	0.230
DC	CONT, T3, T3/T4 (L)	0.045	0.066	0.085	0.107	0.175	0.215
FWR	CONT, T3, T3/T4 (H)	0.095	0.119	0.162	0.197	0.291	0.339
FWR	CONT, T3, T3/T4 (L)	0.076	0.096	0.136	0.169	0.267	0.321

Table 4. Specifications

Physical	
Material	Red or white textured UV stabilized, colored impregnated engineered plastic.
Weight	3R = 1.7 lbs 4X = 2.3
Lens	Light Emitting Diode (LED) in a rugged Lexan lens
Dimensions	3R: 7.8"L x 5.75"W x 1.6"H 4X: 8"L x 6.5"W x 4.5"H The 4X box hs 3/4" NPT entries/plugs
Operating Temperature	Indoor/Outdoor Use. -40° C to 66° C (-40° F to 150° F) 95% R.H.
Mounting & Wire Connections	
Mounting	Wall & Ceiling
Wire Connections	18 to 12 AWG. 2 wire.
Power & General	
Operating voltage	16-33 VDC/FWR. HN only is 12/24 VDC.
Strobe Output Rating	Clear 15/30/75/110/150/185 Cd Amber 15/30/75/95/150/177 Cd
Strobe Flash Rate	1 Hz
Synchronization Models	ALL

Table 5. Accessories

Standard Letter Plates	Color	Description
ELLP-FR (10Pk)	Red	ELUXA LETTER PLATE, RED, FIRE (10 PAIR PER PKG. - 1 Pair PER DEVICE)
ELLP-FW (10Pk)	White	ELUXA LETTER PLATE, WHITE, FIRE (10 PAIR PER PKG. - 1 PAIR PER DEVICE)
ELLP-NR (10Pk)	Red	ELUXA LETTER PLATE, RED, NO LETTERING (10 PAIR PER PKG. - 1 PAIR PER DEVICE)
ELLP-NW (10Pk)	White	ELUXA LETTER PLATE, WHITE, NO LETTERING (10 PAIR PER PKG. - 1 PAIR PER DEVICE)
ELLP-AR (10Pk)	Red	ELUXA LETTER PLATE, RED, AGENT (10 PAIR PER PKG. - 1 PAIR PER DEVICE)
ELLP-AW (10Pk)	White	ELUXA LETTER PLATE, WHITE, AGENT (10 PAIR PER PKG. - 1 PAIR PER DEVICE)
ELLP-ALR (10Pk)	Red	ELUXA LETTER PLATE, RED, ALERT (10 PAIR PER PKG. - 1 PAIR PER DEVICE)
ELLP-ALW (10Pk)	White	ELUXA LETTER PLATE, WHITE, ALERT (10 PAIR PER PKG. - 1 PAIR PER DEVICE)
Special Project Letter Plates	**Color**	**Description**
ELLP-COR (10Pk)	Red	ELUXA LETTER PLATE, RED, CARBON DIOXIDE (10 PAIR PER PKG. - 1 PAIR PER DEVICE)
ELLP-COW (10Pk)	White	ELUXA LETTER PLATE, WHITE, CARBON DIOXIDE (10 PAIR PER PKG. - 1 PAIR PER DEVICE)
ELLP-EVR (10Pk)	Red	ELUXA LETTER PLATE, RED, EVACUATE (10 PAIR PER PKG. - 1 PAIR PER DEVICE)
ELLP-EVW (10Pk)	White	ELUXA LETTER PLATE, WHITE, EVACUATE (10 PAIR PER PKG. - 1 PAIR PER DEVICE)
ELLP-MR (10Pk)	Red	ELUXA LETTER PLATE, RED, EMERGENCY (10 PAIR PER PKG. - 1 PAIR PER DEVICE)
ELLP-MW (10Pk)	White	ELUXA LETTER PLATE, WHITE, EMERGENCY (10 PAIR PER PKG. - 1 PAIR PER DEVICE)
ELLP-FFR (10Pk)	Red	ELUXA LETTER PLATE, RED, FIRE / FEU (10 PAIR PER PKG. - 1 PAIR PER DEVICE)
ELLP-FFW (10Pk)	White	ELUXA LETTER PLATE, WHITE, FIRE / FEU (10 PAIR PER PKG. - 1 PAIR PER DEVICE)

Table 6. Ordering Information

Model	Strobe Candela	Lens	Red	White	Lettering	Sync w/DSM or Wheelock Power Supplies
Horn Strobe						
EL3RHS - FR	15, 30, 75, 95/110, 150, 177/185	Clear	X		FIRE	X
EL3RHS - FW	15, 30, 75, 95/110, 150, 177/185	Clear		X	FIRE	X
EL4XHS - FR	15, 30, 75, 95/110, 150, 177/185	Clear	X		FIRE	X
EL4XHS - FW	15, 30, 75, 95/110, 150, 177/185	Clear		X	FIRE	X
Strobe						
EL3RST - FR	15, 30, 75, 110, 150, 185	Clear	X		FIRE	X
EL3RST - FW	15, 30, 75, 110, 150, 185	Clear		X	FIRE	X
EL3RSTA-ALW	15, 30, 75, 95, 150, 177	Amber		X	ALERT	X
EL4XST - FR	15, 30, 75, 110, 150, 185	Clear	X		FIRE	X
EL4XST - FW	15, 30, 75, 110, 150, 185	Clear		X	FIRE	X
EL4XSTA-ALW	15, 30, 75, 95, 150, 177	Amber		X	ALERT	X
Horn						
EL3RHN - NR			X		No Lettering	X
EL3RHN - NW				X	No Lettering	X
EL4XHN - NR			X		No Lettering	X
EL4XHN - NW				X	No Lettering	X

Architects and Engineers Specifications

The LED outdoor notification appliances shall be Wheelock® EL3RHS/EL4XHS audible visual strobe appliances, EL3RST/EL4XST visual strobe appliances and EL3RHN/EL4XHN audible appliances for wall and ceiling-mount applications with a low-profile design or approved equals. Special lettering, including AGENT, ALERT, EVACUATE, and no lettering, shall be available. The outdoor series EL3RHN/EL4XHN, EL3RST/EL4XST, EL3RHS/EL4XHS, EL3RSTA/EL4XSTA (Amber) shall be listed for: Certified to NEMA type 3R | 4X, IP54 |IP66 Certified |Tested to IP67, NFPA 72 2016 (Meets maximum light pulse duration of 20 ms), IEC 60529 2nd edition + amendment 3- August 2013, FCC Part 15B / ICES-003- Class A, UL 50 13th edition- October 2020, UL 50E 3rd edition- October 2020, UL464 11th edition: CAN/ULC 525 5th edition- May 2023, UL1480 7th edition: CAN/ULC S541 5th edition- May 2023, UL1638 6th edition: CAN/ULC S526 5th edition- April 2023, California State Fire Marshal (CSFM), Factory Mutual (FM), ADA/NFPA/ANSI/OSHA. All inputs shall be compatible with standard reverse polarity supervision of circuit wiring by a Fire Alarm Control Panel (FACP) with the ability to operate from 16 to 33 VDC/VFWR.

The EL3RHS/EL4XHS audible strobe and EL3RST/EL4XHS strobe appliances shall produce a flash rate of one (1) flash per second over the Regulated Voltage Range and shall incorporate a Light Emitting Diode (LED) as the light source with a rugged Lexan® lens. The appliances shall be of low current design. The LED strobe flash duration shall be 20 ms. Where Multi-Candela appliances are specified, the strobe intensity shall have 6 field selectable settings at 15, 30, 75, 110, 150 and 185 candela for the clear lens and 15, 30, 75, 95, 150, 177cd for the amber lens. The selector switch for selecting the candela shall be tamper resistant. Appliances with candela settings shall show the candela selection in a visible location at all times when installed.

The audible shall have a choice of three (3) horn patterns (high & low output): Continuous, T3, and T3/T4 for fire (T3) and CO (T4) signaling. The EL3RHS/EL4XHS audible strobe, EL3RST/EL4XST strobe (clear and amber), and EL3RHN/EL4XHN audible shall include a hinged mounting plate.

The outdoor series EL3RHN/EL4XHN, EL3RST/EL4XST, EL3RHS/EL4XHS, EL3RSTA/EL4XSTA (Amber)appliances shall include a mounting plate or surface mounting box from the factory. The outdoor series EL3RHN/EL4XHN, EL3RST/EL4XST, EL3RHS/EL4XHS, EL3RSTA/EL4XSTA (Amber) incorporates pre-wire, pre-test mounting plate and back box terminals. The outdoor series EL3RHN/EL4XHN, EL3RST/EL4XST, EL3RHS/EL4XHS, EL3RSTA/EL4XSTA (Amber) rated to NEMA type 3R, IP54 and NEMA type 4X, IP66 respectively, when used with the included mounting accessory. Two wire appliance wiring shall be capable of directly connecting to the mounting plate or back box. Removal of an appliance shall result in a supervision fault condition by the Fire Alarm Control Panel (FACP). All notification appliances shall be backwards compatible.

The outdoor series EL3RHN/EL4XHN, EL3RST/EL4XST, EL3RHS/EL4XHS, EL3RSTA/EL4XSTA (Amber)appliances shall provide installers ease of installation provided by the self-supporting hanging hinge feature.

When synchronization is required, the appliance shall be compatible with Wheelock®'s DSM Sync Modules, PS Power Supplies, Intelligent Notification Controller, SAFEPATH products or other manufacturer's panels with built-in Wheelock® Patented Sync Protocol. The strobes shall not drift out of synchronization at any time during operation. If the sync protocol fails to operate, the strobe shall revert to a non-synchronized flashrate and still maintain (1) flash per second over its Regulated Voltage Range. The appliance shall also be designed so that the audible signal may be silenced while maintaining strobe activation when used with Wheelock® patented sync protocol.

Note: Due to continuous development of our products, specifications and offerings are subject to change without notice in accordance with Cooper Wheelock Inc., dba Eaton standard terms and conditions apply.

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