Chicago Offering
Lights the way to safety

by ABB
City of Chicago – Approved

Lightalarms® is proud to present its complete range of Chicago-Approved life safety equipment using LED light source. A leading manufacturer of emergency lighting and exit signage, Lightalarms® has been supplying innovative, reliable emergency lighting in the U.S. since 1953 and is pleased to continue this tradition with our newly-expanded Chicago LED product offering.

Setting the standard

When it comes to life safety, there can be no compromise. The Lightalarms® products on the following pages are designed, manufactured and tested to meet some of the most demanding standards in North America–Chicago standards.

The complete line of Lightalarms® life safety products meets or exceeds the requirements of UL 924, NFPA 101, Life Safety Code, NEC and ICC standards. In addition, you will now find UL approved equipment, for use in “City of Chicago Environmental Airspaces” (CCEA).

This mark is recognized by the Chicago Department of Buildings, Electrical Division. From high-end architectural to commercial installations, for new construction and retrofit projects, there’s a Lightalarms® product to meet your specifications.

Lightalarms® – lighting the way to safety since 1953.
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High output MR16 LED
Emergency lighting

MR16 LED illumination
With the remarkable technology development in the last decade, the light-emitting diode (LED) is becoming the preferred solution in lighting applications. The emergency lighting industry is no exception: today virtually every new product introduced to market includes “white light” light LEDs for emergency illumination. Extremely efficient and long-lasting, LED lamps become the natural alternative to incandescent lamps due to three main advantages:

- **Lamp efficacy:** 50–100 lumens per watt compared to 15–30 lumens per watt of the best halogen lamp. Allowing for smaller batteries and units and/or remote capacity
- **Operational life:** 30,000+ hours, equivalent to a lifetime warranty in emergency lighting.
- **Lower lamp temperature:** 80–120°C (176–248°F) is a huge benefit for lighting in hazardous locations.

**MR16 LED lamp benefits**
- Reduces total cost of ownership, uses few fixture due to superior illumination, thus reducing installations cost and future maintenance of the entire system.
- UL-recognized components.
- Available for standard battery voltages 6V, 12V and 24V as well as 120V operation.
- Energy-efficient LED MR16 lamp provides equivalent lighting performance to a much higher watt halogen MR16 lamp.
- Reduces required battery capacity by 75%, for battery units and remote heads.
- Small profile, compact white lighting is ideal for architectural applications.
- Typical 30,000 hours of operational life.
- Vibration-resistant LED stands up to industrial environments.
- Ideal for indoor and outdoor use.

### Lamp Description Photometry

**200-220 Lumen 4W MR16 LED**
Leading the technology trend, Lightalarms® offers a complete series of 4W MR16 LED lamps available for all the standard battery voltages: 6V, 12V, 24V and 120V. With up to 30,000 hours of operational life and a luminous flux of typically 200 to 220 lumens, they are available with most emergency heads designed to hold an MR16 lamp and meet the majority of illumination specifications. For example: one pair of LED emergency heads installed at a height of 7.5ft illuminates a 8ft by 55ft path of egress.

**340 Lumen 5W MR16 LED**
Keeping pace with technology, in 2012 we introduced a 12V-5W MR16 LED lamp. With a typical luminous flux of 340 lumens, this lamp has the same lighting performance as a 20W high-output halogen MR16. A twin emergency head installed at a height of 7.5ft illuminates 70ft path of egress.

**540-590 Lumen 6W MR16 LED**
A 6W MR16 LED lamp delivers up to 590 lumens for an average spacing in emergency lighting of 106 feet with an efficacy of 98.3 Lm/w, it is over 6 times the efficacy of a MR16 35W halogen with similar light output. This lamp can deliver the highest linear foot of illumination per watt on a path of egress! (spacing in feet / watt) 8.83ft compare to 1.37ft for a MR16 35W.

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**Photometry**

<table>
<thead>
<tr>
<th>Lamp Description</th>
<th>Photometry</th>
</tr>
</thead>
<tbody>
<tr>
<td>200-220 Lumen 4W MR16 LED</td>
<td>55-ft. path of egress 2 X 4W MR16 LED Based on an average of 1 foot candle</td>
</tr>
<tr>
<td>340 Lumen 5W MR16 LED</td>
<td>70-ft. path of egress 2 X 5W MR16 LED Based on an average of 1 foot candle</td>
</tr>
<tr>
<td>540-590 Lumen 6W MR16 LED</td>
<td>106-ft. path of egress 2 X 6W MR16 LED Based on an average of 1 foot candle</td>
</tr>
</tbody>
</table>
High output MR16 LED
Emergency lighting

Case study: Fewer MR16 LED units required
Emergency lighting units with MR16 LED lamps provide the same illumination at floor level using significantly less units.
• Reduced installation costs, less product needed and labor.
• Reduced energy costs, keeping batteries charged at full capacity to be ready to respond to an emergency situation at any time.

Compare
Where the building code requires an average of 1 foot-candle and a minimum of 0.1 foot-candle at floor level along the path of egress on a 150’ x 9’ x 9’ corridor with an egress door at one end, a 150’ x 6’ path of egress, and a 7.5’ unit mounting height.

<table>
<thead>
<tr>
<th>Series</th>
<th>Thermal imagery – 150 foot hallway</th>
<th>MR16 LED lamps</th>
</tr>
</thead>
<tbody>
<tr>
<td>RD-CH Battery Series</td>
<td>4W LED</td>
<td>4W MR16 LED lamps Same standard emergency lighting units with 4W MR16 LED lamps requires a total of 5 double-head units or remotes</td>
</tr>
<tr>
<td>Lamp suffix</td>
<td>Voltage</td>
<td>Wattage</td>
</tr>
<tr>
<td>LD1</td>
<td>6</td>
<td>4</td>
</tr>
<tr>
<td>LD7</td>
<td>12</td>
<td>4</td>
</tr>
<tr>
<td>LD25</td>
<td>120</td>
<td>4</td>
</tr>
</tbody>
</table>

| RD-CH Battery Series | 5W LED | 5W MR16 LED lamps Same standard emergency lighting units with 5W MR16 LED lamps requires a total of 3 double-head units or remotes |
| Lamp suffix | Voltage | Wattage | Lumens |
| LD9         | 12      | 5       | 340    |

| RD-CH Battery Series | 6W LED | 6W MR16 LED lamps Same standard emergency lighting units with 6W MR16 LED lamps requires a total of 2 double-head units or remotes |
| Lamp suffix | Voltage | Wattage | Lumens |
| LD10        | 12      | 6       | 540    |
CH LED Series
Die-cast aluminum universal trim white LED edge-lit exit sign

Designed for elegant interiors, this premium die-cast aluminum exit sign uses a modular design for mounting flexibility.

Construction
• Face plate: Virgin acrylic face plate is thin, silk-screened to provide a flawless legend. Face plates are available with red letters on a white background
• Housing: Die-cast aluminum back box, trim ring, trim plate and canopy
• U-shaped clear acrylic legend panel features laser-etched letters and chevrons

Mounting
• All mounting configurations use the same basic components. Inserting a trim ring allows for recessed mounting on walls or ceilings. Applying a canopy allows for surface mounting on ceilings or walls as back or end mount.

Finishes
• Standard finish is brushed aluminum with other finishes available as an option

Chevrons
• Silk screened as specified

Arrow (chevron) designation
Arrow right
Arrow left
Double arrow
Arrow right & left represents each side of a double face panel

NOTE: Wording and chevrons not to scale. For illustration purposes only.

LEDs
• White LED light source, 10-year life expectancy

Self-diagnostics
• Self-powered models available with or without Improved Diagnostics

Special wording panels
• Available. Contact your sales representative with your design requirements

Approvals
• Listed to UL 924 Standards
• City of Chicago Approved

Warranty
• Five-year full warranty (subject to proper installation and maintenance)
Detailed warranty terms located at: www.lightalarms.com

Power consumption chart

<table>
<thead>
<tr>
<th>Model</th>
<th>AC specs</th>
<th>DC specs</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC-only</td>
<td>120-277VAC (Less than 2.5W)</td>
<td></td>
</tr>
<tr>
<td>AC/DC</td>
<td>120-277VAC (Less than 2.5W)</td>
<td>6 to 24VDC (Less than 2.5W)</td>
</tr>
<tr>
<td>Self-powered</td>
<td>120-277VAC (Less than 3.5W)</td>
<td>Nickel-cadmium battery (2 hours)</td>
</tr>
<tr>
<td>Self-powered diagnostic</td>
<td>120-277VAC (Less than 3.5W)</td>
<td>Nickel-cadmium battery (2 hours)</td>
</tr>
</tbody>
</table>
**Dimensions** (Dimensions are approximate and subject to change):

![Dimensions Diagram]

**Accessories** (Order as a separate item)

<table>
<thead>
<tr>
<th>Description</th>
<th>Product code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pendant, white</td>
<td>PW-*</td>
</tr>
<tr>
<td>Pendant, black</td>
<td>PB-*</td>
</tr>
<tr>
<td>Pendant, gray</td>
<td>PA-*</td>
</tr>
</tbody>
</table>

*Specify white (WT) or black (BK) housing

**Backbox** (Order as a separate item)

<table>
<thead>
<tr>
<th>Description</th>
<th>Product code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Backbox kit white</td>
<td>BBKTS-WT-L</td>
</tr>
<tr>
<td>Backbox kit black</td>
<td>BBKTS-BK-L</td>
</tr>
<tr>
<td>Backbox kit brushed aluminum</td>
<td>BBKTS-BA-L</td>
</tr>
<tr>
<td>Backbox kit chrome</td>
<td>BBKTS-CH-L</td>
</tr>
<tr>
<td>Backbox kit dark bronze</td>
<td>BBKTS-DB-L</td>
</tr>
<tr>
<td>Backbox kit polished brass</td>
<td>BBKTS-PB-L</td>
</tr>
</tbody>
</table>

**Ordering format**

Example: CHSLD2AD#2A
CH-Flat LED Series
Die-cast aluminum flat trim plate white LED edge-lit exit sign with recessed ceiling mount

This elegant edge-lit exit sign complements modern décor. In high visibility areas, the CH-Flat LED Series exit sign provides elegant designer details including recessed ceiling mount design, and brushed aluminum trim plate.

Construction
• Designed to achieve superior visual clarity and performance with an LED lightsource. LED sensitive inks are formulated to provide a rich red color on white background
• Clear acrylic panel provides optimum light transmission. Illumination is 100% in both AC and emergency mode
• Housing: Die-Cast aluminum trim ring, trim plate and canopy

Mounting
• Housing: Fully-recessed, 20-gauge galvanized steel back-box; equipped with hanger bars for installation between joists or a suspended ceiling

Finishes
• Standard finish is brushed aluminum with other finishes available as an option

Chevrons
• Silk screened as specified

Arrow (chevron) designation
Arrow right
Arrow left
Double arrow
Arrow right & left represents each side of a double face panel

NOTE: Wording and chevrons not to scale. For illustration purposes only.

LEDs
• White LED light source, 10-year life expectancy

Self-diagnostics
• Self-powered models available with or without Improved Diagnostics

Special wording
• Available. Contact your sales representative with your design requirements

Approvals
• Listed to UL 924 Standards
• City of Chicago Approved

Warranty
• Five-year full warranty (subject to proper installation and maintenance)
Detailed warranty terms located at: www.lightalarms.com

Power consumption chart

<table>
<thead>
<tr>
<th>Model</th>
<th>AC specs</th>
<th>DC specs</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC-only</td>
<td>120-277VAC (Less than 2.5W)</td>
<td></td>
</tr>
<tr>
<td>AC/DC</td>
<td>120-277VAC (Less than 2.5W)</td>
<td>6 to 24VDC (Less than 2.5W)</td>
</tr>
<tr>
<td>Self-powered</td>
<td>120-277VAC (Less than 3.5W)</td>
<td>Nickel-cadmium battery (2 hours)</td>
</tr>
<tr>
<td>Self-powered diagnostic</td>
<td>120-277VAC (Less than 3.5W)</td>
<td>Nickel-cadmium battery (2 hours)</td>
</tr>
</tbody>
</table>
Dimensions (Dimensions are approximate and subject to change):

```
15" [38.1cm]
7-1/2" [19.2cm]
7-3/8" [18.8cm]
3-7/8" [9.9cm]
3-1/4" [8.3cm]
13" [32.9cm]
```

"ADD 1-1/2" TO HEIGHT OF UNIT WHEN ORDERING PANEL WITH ARROW

Accessories (Order as a separate item)

<table>
<thead>
<tr>
<th>Description</th>
<th>Product code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Special wording</td>
<td>Contact your sales representative</td>
</tr>
<tr>
<td>Two 27-inch adjustable bar hangers*</td>
<td>TBB</td>
</tr>
</tbody>
</table>

*Bar hangers supplied with unit, order as replacement only

Backbox (Order as a separate item)

<table>
<thead>
<tr>
<th>Description</th>
<th>Product code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Backbox kit flat trim Chicago</td>
<td>BBKTRCH-L</td>
</tr>
</tbody>
</table>

Ordering format

<table>
<thead>
<tr>
<th>Custom spec Series</th>
<th>Color of trim plate</th>
<th>Panel type</th>
<th>Trim plate</th>
<th>Legend style</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>CH</td>
<td>A= Brushed aluminum</td>
<td>Blank</td>
<td>F= Flat</td>
<td>Single face panels</td>
<td>DL= Damp locations</td>
</tr>
<tr>
<td></td>
<td>W= White</td>
<td></td>
<td></td>
<td>#2A= STAIRS (No arrows)</td>
<td>Housing shipped</td>
</tr>
<tr>
<td></td>
<td>B= Black</td>
<td></td>
<td></td>
<td>#3= EXIT (No arrows)</td>
<td>less panel</td>
</tr>
<tr>
<td></td>
<td>DB= Dark bronze</td>
<td></td>
<td></td>
<td>#5A= STAIRS (Arrow right)</td>
<td>LP= Less panel,</td>
</tr>
<tr>
<td></td>
<td>(painted)</td>
<td></td>
<td></td>
<td>#6= EXIT (Arrow right)</td>
<td>(shipped separately)</td>
</tr>
<tr>
<td></td>
<td>PB= Polished brass</td>
<td></td>
<td></td>
<td>#8A= STAIRS (Arrow left)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>CH= Polished chrome</td>
<td></td>
<td></td>
<td>#9= EXIT (Arrow left)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>#11A= STAIRS (Double arrows)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>#12= EXIT (Double arrows)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>#17A= STAIRS (No arrows)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>#18= EXIT (No arrows)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>#23A= STAIRS (Double arrows)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>#24= EXIT (Double arrows)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>#20A= STAIRS (Arrow left and</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>arrow right, one arrow on each side)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>#21= EXIT (Arrow left and</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>arrow right, one arrow on each side)</td>
<td></td>
</tr>
</tbody>
</table>

Example: CHSLDWF#12
CHE-LED Series
City of Chicago Approved steel LED exit sign

For surface mount, wall, end or ceiling installations. Available in single or double face models.

Housing
• Constructed of 20-gauge steel housing with glass panels
• Cabinet offered in mist white
• White LED lighting source
• Choice of single or double face available

Mounting
• Canopy supplied for top or end-mount
• Universal knockout pattern on back plate for wall mount

Battery
• 4.8V long-life, maintenance-free rechargeable nickel-cadmium with self-powered model

Electronics
• Dual voltage 120/277, 60Hz
• Automatic solid-state charger recharges battery in 24 hours
• A 2 hour run time in emergency mode

Approvals
• UL listed for damp location 68°F to 122°F (20°C to 50°C)
• Meets UL 924, NFPA 101 Life safety code, NEC, OSHA, local and state codes
• City of Chicago Approved

Warranty
• Three-year full warranty (subject to proper installation and maintenance) Detailed warranty terms located at: www.lightalarms.com

Dimensions (Dimensions are approximate and subject to change):

Power consumption chart

<table>
<thead>
<tr>
<th>Model</th>
<th>AC specs</th>
<th>DC specs</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHE</td>
<td>120/277VAC, 60HZ</td>
<td>5W</td>
</tr>
<tr>
<td>CHEN</td>
<td>120/277VAC, 60HZ</td>
<td>5W</td>
</tr>
</tbody>
</table>

Arrow (chevron) designation

Arrow right
Arrow left
Double arrow
Arrow right & left represents each side of a double face panel

NOTE: Wording and chevrons not to scale. For illustration purposes only.

Ordering format

Example: CHENR#2A
CHE-2LED Series
City of Chicago approved steel LED combination unit

Housing
• Constructed of 20-gauge steel housing with glass panels
• Cabinet offered in mist white
• White LED lighting source
• Choice of single or double face available

Mounting
• Canopy supplied for top or end-mount
• Universal knockout pattern on back plate for wall mount

Heads
• Each unit comes with two adjustable 6V-5W LED heads
• Each unit provides 280 lumens

Battery
• 6V lead-calcium, maintenance-free, rechargeable battery

Options
• Available with 10W remote capacity on the CHC-2LEDRC model

Electronics
• Low voltage disconnect
• Dual voltage 120/277, 60Hz
• LED indicator light and push-to-test switch

• Automatic solid-state charger recharges battery in 24 hours
• A 2 hour run time in emergency mode

Approvals
• UL listed for damp location 68°F to 122°F (20°C to 50°C)
• Meets UL 924, NFPA 101 Life safety code, NEC, OSHA, local and state codes
• Meets City of Chicago requirements

Warranty
• Three-year full warranty (subject to proper installation and maintenance)

Detailed warranty terms located at: www.lightalarms.com

Dimensions (Dimensions are approximate and subject to change):

For top or end-mount installations.
Available in single or double face models.
Each unit comes with two adjustable 6V-5W LED heads.

Arrow (chevron) designation
Arrow right & left represents each side of a double face panel

Example: CHC-2LEDRC#2A

¹Compatible only with ELF612/LED remote. One double dedicated remote.
CHB-2LED Series

Steel LED battery unit

Steel housing unit comes with two adjustable 6V-5.3W LED heads and a lead-calcium battery.

Housing
• Constructed of 20-gauge steel
• Cabinet offered in mist white

Mounting
• Knockouts on the back of unit for wall mount
• Side and top knockouts for conduit

Heads
• Each unit comes with two adjustable 6V-5.3W LED heads
• Each unit provides 280 lumens

Battery
• 6V sealed lead-calcium, maintenance-free, rechargeable battery

Options
• Optional 10W remote capacity available on the CCB-2LEDRC model

Electronics
• Low voltage disconnect
• Dual voltage 120/277, 60Hz
• LED indicator light and push-to-test switch
• Automatic solid-state charger recharges battery in 24 hours
• A 2 hour run time in emergency mode

Approvals
• UL listed for damp location 68°F to 122°F (20°C to 50°C)
• Meets UL 924, NFPA 101 Life safety code, NEC, OSHA, local and state codes
• Meets City of Chicago requirements

Warranty
• Three-year full warranty (subject to proper installation and maintenance)
  Detailed warranty terms located at: www.lightalarms.com

Dimensions (Dimensions are approximate and subject to change):

Power consumption chart

<table>
<thead>
<tr>
<th>Model</th>
<th>AC specs</th>
<th>DC specs</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHB-2LED</td>
<td>120VAC, 60HZ, 0.08A 8.4W</td>
<td></td>
</tr>
<tr>
<td>CHB-2LED</td>
<td>277VAC, 60HZ, 0.04A 9.4W</td>
<td></td>
</tr>
<tr>
<td>CHB-2LED-RC</td>
<td>120VAC, 60HZ, 0.09A 8.7W</td>
<td></td>
</tr>
<tr>
<td>CHB-2LED-RC</td>
<td>277VAC, 60HZ, 0.05A 10W</td>
<td></td>
</tr>
</tbody>
</table>

Ordering format

<table>
<thead>
<tr>
<th>Series</th>
<th>Lamp</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHB</td>
<td>-2LED= Double Steel Round LED</td>
<td>Blank= No Option, RC= 6V-10W Remote Capacity¹</td>
</tr>
</tbody>
</table>

Example: CHB-2LED

¹Compatible only with ELF612/LED remote. One double dedicated remote.
ELF612D/LED Series
Thermoplastic square LED indoor or outdoor remote unit

Thermoplastic square LED is suitable for wet locations and can be mounted on a wall or ceiling.

Housing
- Thermoplastic housing and aluminum canopy with fully adjustable LED heads
- Suitable for indoor or outdoor application
- Suitable for wet location applications
- Wall or ceiling mount
- Available only in gray double head configuration
- Universal DC voltage: 3.6V, 6V or 12V operation
- Each head draws 1.5W

Approvals
- UL 924 listed
- Meets City of Chicago requirements

Warranty
- Three-year full warranty (subject to proper installation and maintenance)

Detailed warranty terms located at: www.lightalarms.com

Dimensions (Dimensions are approximate and subject to change)

Accessories (Order as a separate item)

<table>
<thead>
<tr>
<th>Description</th>
<th>Product code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wire guard (heads in any position) wall mount</td>
<td>WG10-L</td>
</tr>
</tbody>
</table>

Ordering format

<table>
<thead>
<tr>
<th>Series</th>
<th>Head type</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELF612D</td>
<td>/LED= Thermoplastic square LED head</td>
</tr>
</tbody>
</table>

Example: ELF612D/LED
TBR-CH Series
Recessed steel housing lead-calcium battery

This emergency light is designed for easy access to internal components and has a fully recessed housing that blends in for architectural unity.

Housing
• 20 gauge steel housing designed for easy access to internal components
• Corrosion-resistant baked enamel mist white finish standard, black optional
• Provision for mounting up to 3 lighting heads

Mounting
• Recessed T-bar ceiling mount; lay-in installation for grid ceiling only

Electronics
• Automatic, temperature-compensated, pulse-type charger
• High capacity, automatic, dust-tight instantaneous transfer relay
• Low voltage disconnect prevents over discharge of battery
• Automatic brownout protection
• Battery lock-out prevents battery discharge during installation
• Fused output circuit

Improved Diagnostics option
• Units equipped with Improved Diagnostics shall self-test, by simulating a power failure, in accordance with NFPA101, Life Safety Code one minute monthly, 30 minutes every six months and 90 minutes annually.

Controls
• Red charger monitor LED indicates charging of the battery
• Amber AC-ON LED indicates AC power is on
• Momentary test switch allows for quick operational check of entire system

Sealed maintenance-free battery
• 12V lead-calcium battery

Approval
• UL 924 listed
• Meets City of Chicago requirements

Warranty (subject to proper installation and maintenance)
• Unit has a three-year full warranty (excluding lamps and fuses)
• Lead-calcium battery has a three-year full, plus three-year pro-rata warranty
Detailed warranty terms located at: www.lightalarms.com

Power consumption chart

<table>
<thead>
<tr>
<th>Series</th>
<th>Battery type</th>
<th>DC Voltage</th>
<th>DC specs</th>
<th>AC specs</th>
</tr>
</thead>
<tbody>
<tr>
<td>T12BRC2</td>
<td>Lead-calcium</td>
<td>12V</td>
<td>90 Mins</td>
<td>54</td>
</tr>
</tbody>
</table>

1 National Electrical Code specification
2 All units 120/277 dual voltage, information based on wiring to specific voltage type
Dimensions (Dimensions are approximate and subject to change):

![Diagram of dimensions]

Accessories (Order as a separate item)

<table>
<thead>
<tr>
<th>Description</th>
<th>Product code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Remote test switch (metal faceplate)</td>
<td>PSW</td>
</tr>
<tr>
<td>Remote test switch (plastic faceplate)</td>
<td>PSW1</td>
</tr>
</tbody>
</table>

Ordering format

<table>
<thead>
<tr>
<th># of heads</th>
<th>Series/battery/capacity</th>
<th>Head style</th>
<th>Series</th>
<th>Lamp type</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blank= No heads</td>
<td>Lead-calcium battery</td>
<td>/D1= DR1130</td>
<td>CH= City of Chicago approved</td>
<td>LD7= 12V-4W, MR16 LED</td>
<td>Blank= Mist white housing, no options</td>
</tr>
<tr>
<td>1= 1 head</td>
<td>T12BRC2= 12V-54W</td>
<td>(MR16, Metal)</td>
<td></td>
<td>LD9= 12V-5W, MR16 LED</td>
<td>-B= Black housing</td>
</tr>
<tr>
<td>2= 2 heads</td>
<td></td>
<td></td>
<td></td>
<td>LD10= 12V-6W, MR16 LED</td>
<td>-ID= Improved Diagnostics (audible)</td>
</tr>
<tr>
<td>3= 3 heads</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Example: 2TBRC2/DR1130LD9
RD-CH Series
Recessed steel housing lead-calcium battery unit

A decorator-friendly low-profile ceiling or wall-mount emergency light to suit any décor.

Housing
• 20 gauge steel housing designed for easy access to internal components
• Corrosion-resistant baked enamel mist white finish standard, black optional
• Provision for mounting up to 2 lighting heads

Mounting
• Ceiling or wall mount; mounting brackets included for lay-in installation in T-bar grid ceiling as well as dry wall

Electronics
• Automatic, temperature-compensated, pulse-type charger
• High capacity, automatic, dust-tight instantaneous transfer relay
• Low voltage disconnect prevents over discharge of battery
• Automatic brownout protection is provided
• Battery lock-out prevents battery discharge during installation
• Fused output circuit

Improved Diagnostics option
• Units equipped with Improved Diagnostics shall self-test, by simulating a power failure, in accordance with NFPA101, Life Safety Code one minute monthly, 30 minutes every six months and 90 minutes annually.

Controls
• Red charger monitor LED indicates charging of the battery
• Amber AC-ON LED indicates AC power is on
• Momentary test switch allows for quick operational check of entire system

Sealed maintenance-free battery
• 2V lead-calcium battery

Approvals
• UL 924 standard
• Meets City of Chicago requirements

Warranty (subject to proper installation and maintenance)
• Unit has a three-year full warranty (excluding lamps and fuses)
• Lead-calcium battery has a three year full, plus three year pro-rata warranty
Detailed warranty terms located at: www.lightalarms.com

Power consumption chart

<table>
<thead>
<tr>
<th>Series</th>
<th>Battery type</th>
<th>DC Voltage</th>
<th>DC specs</th>
<th>AC specs</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Battery capacity (in watts)¹</td>
<td>Units dual voltage²</td>
</tr>
<tr>
<td>RD12M3</td>
<td>Lead-Calcium</td>
<td>12V</td>
<td>90 Mins</td>
<td>2 Hrs</td>
</tr>
</tbody>
</table>

¹National Electrical Code specification
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![Dimensions diagram]

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<td>WG6-L</td>
</tr>
<tr>
<td>Remote test switch (metal faceplate)</td>
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<td>1: 1 head</td>
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<td></td>
<td>LD9: 12V-5W, MR16 LED</td>
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</tbody>
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Example: 2RD6M2/LHK