Protect The Complete Elevator System From Explosion Hazards

When determining what requires explosion proof protection make sure as many parts of the elevator as possible are covered.

Whether it’s a passenger or freight, there are many areas of the elevator that require explosion proof protection.

CJA offers the following equipment for your explosion proof protection needs.

**Machine Room**
- Elevator Control Systems - *For Any Speed, Type or Elevator Application*
- Elevator Motors - Class 1, Division 2
  - Communication Stations
  - Machine Room Lighting
- Brake Limit Switches - *Manual Reset*

**Top and Bottom of Hoistway**
- Final, Normal & Slow Down Switches
- Access Over Travel Limit Switches

**Inside Elevator**
- Main & Auxiliary Car Stations
  *For both Passenger and Freight Applications*
- Car Position Indicators - *Digital/Multilight*
- Traveling Lanterns - *Standard/Vandal Proof*
  - Communication Stations
  - Cab Lighting
  - Door Protection Units - *Photoelectric*

**Hoistway Equipment**
- Car Top Inspection Station
- Accu-Track Selector System
- Car Bottom Worklight & Receptacle
  - Retiring Carn
  - Cab Ventilation Fan
  - Door Interlocks

**Elevator Entrance/Hallway**
- Door Interlocks
- Hall Stations
- Digital Position Indicators
- Hall Lanterns
- Access Switch Stations

**Elevator Pit/Bottom of Hoistway**
- Final, Normal & Slow Down Switches
- Pit Switches
- Pit Worklight and Receptacle
- Car Leveling Systems

If you don’t see what you need listed here please call us at 1-800-252-1910!
Elevator Systems In Hazardous Locations

Buildings all over the world need elevator equipment designed to protect against and prevent an explosion from occurring.

CJA equipment can be found on elevators everywhere, from the largest cities in the world, to the smallest towns in the USA.

Some buildings, cities and industries request our equipment because of its dependability and ease of installation.

CJA equipment is used exclusively in many industries. Below and to the right are just a few of them.

- Grain Elevators
- Oil Refineries
- Coker Plants
- Pharmaceutical Plants
- Gas Utility Facilities
- Water Treatment Plants
- Flour and Feed Mills
- Passenger & Freight Elevators
- Coal Preparation Plants
- Mines
- Starch, Aluminum, Sulfur, Propane, Magnesium, etc. Processing Plants

Oil Refinery (too many to list)
Project Scope, Controller & Fixture Package & Hoistway Equipment

Water Reclamation Facilities
Project Scope: Fixture Package, Controller & Hoistway Equipment

Pharmaceutical Companies
Project Scope: Fixture Package, Controller & Hoistway Equipment

Rocket Launch Towers
Project Scope: Fixture Package, Controller & Hoistway Equipment

Gas Processing Facilities
Project Scope: Fixture Package, Controller & Hoistway Equipment

Chemical Processing Plants
Project Scope: Fixture Package, Controller & Hoistway Equipment
There’s no need to be fearful of bidding on an explosion proof project. The important key is to make sure that you’ve got the correct hazardous location rating.

Remember that you’ll need the Class, Division, NEMA and Group that the electrical equipment needs to comply with. Any safety officer on site should know this information.

It is not enough to request only that the equipment must meet explosion proof requirements as there are three ways this can be done.

If non explosion proof equipment is installed in locations that require this protection an explosion can occur.

Taking on an explosion proof project can go smoothly or not go smoothly. Let us help you with it so it goes as smoothly as possible.

By taking on an explosion proof project like this you’ll be separating yourself from the other guys. It could be a way of carving out a niche for yourself as an explosion proof elevator components installer.

Add explosion proof to your project portfolio and you’ll see more opportunities for future work.
Let Us Help You With Your Next Project

Hazardous Location Classifications for Elevator Equipment

The following is an overview of hazardous location classifications as they apply to elevator equipment. This is intended to give elevator sales, technical and field personnel a better understanding of the hazardous location designations and the equipment available to meet these requirements. The actual processes employed to define and assign hazardous location designations are complex and beyond the scope of this summary. For complete detail and installation instructions see Article 500 of the National Electrical Code.

General

Hazardous location elevator equipment is necessary in any area where the possibility of fire or explosion exists, or may exist because of flammable gases or vapors, flammable liquids, combustible dust, or ignitable fibers. These types of dangers are officially classified by location (Class, Division, and Group) depending on the properties of the flammable vapors, liquids or gases, combustible dusts or fibers that may be present and/or the likelihood that a flammable or combustible concentration or quantity is present.

From an elevator contractor perspective it is safe to say that if there is any likelihood that a fire or explosion could conceivably happen, hazardous location equipment should be installed, even if not specified by the customer.

<table>
<thead>
<tr>
<th>Class I Area Classification</th>
<th>Division 1 Area Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Areas in which flammable gases or vapors are or may be present in the air in quantities sufficient to produce explosive or ignitable mixtures are Class I.</td>
<td>A Division 1 location is one in which the ignitable or combustible gases, vapors or dust can exist under normal operating conditions.</td>
</tr>
<tr>
<td>Group A, B, C &amp; D - Defines the type of combustible gases in the Class I location atmosphere.</td>
<td>Group to which they will be rated based on the Class and Group designation specifies if the exposure is gaseous or combustible dust and (2) the Division specifies if the hazard is always present or exists only when a problem occurs.</td>
</tr>
</tbody>
</table>

**Class I Area Groups: Division 1 and 2**

- A (acetylene)
- B (hydrogen)
- C (ethylen)
- D (propane)

**Class II Area Classification**

Areas where combustible metal, carbonaceous dust, or other combustible dust such as flour, grain, wood, etc., are or may be present in the air in quantities sufficient to produce explosive or ignitable mixtures are Class II.

- Group E, F, & G - Defines the type of combustible dust in the Class II location atmosphere.

**Class II Area Groups Division 1 & 2**

- E (metals —- Div. 1 only)
- F (coal)
- G (grain)

**Class III Area Classification**

Areas that are hazardous because of the presence of easily ignitable fibers or flyings, but are not likely to be in suspension in the air in quantities sufficient to produce ignitable mixtures are Class III.

**Class III Groups Division 1 & 2**

- None.

**Division 2 Area Classification**

A Division 2 location is one in which the ignitable or combustible gases, vapors or dust are stored, handled, processed or used, but normally confined within closed containers or systems, or dispersed by positive mechanical ventilation. In this division the hazard is created by accidental rupture of containers or systems, or equipment failure.

**NEMA Classifications**

Hazardous location enclosures are rated based on the Class and Group to which they will be installed. These are:

- **NEMA 7** - Enclosures for use in locations classified as Class I, Groups A, B, C, or D. (Combustible gases)
- **NEMA 9** - Enclosures for use in locations classified as Class II, Groups E, F, or G. (Combustible dust).
- **NEMA 4X** - Enclosures for use in Class 1, Division 2 locations if used in conjunction with hermetically sealed contacts. Water/Corrosion Resistant Enclosures are constructed to provide a degree of protection against falling dirt, rain, sleet, snow, windblown dust, splashing water and corrosion.

**Summary & Recommendations**

To summarize these hazardous location classifications for elevator applications: (1) the Class and Group designation specifies if the exposure is gaseous or combustible dust and (2) the Division specifies if the hazard is always present or exists only when a problem occurs.

Because the Class I or II, Division 1 category indicates that the hazard exists under normal conditions it is our recommendation that elevator components used have a NEMA 7 or 9 rated enclosure. This is the most stringent application.

In Class I or II, Division 2 areas exceptions to the enclosure rating are allowed. For elevator applications in Division 2, general purpose enclosures are permissible if used in conjunction with hermetically sealed contacts. For maximum protection the general purpose enclosure should be NEMA 4X rated.
Car Stations Class 1 & 2, Division 1 - NEMA 7/9

Pictured Above: 3 stop elevator car panel with freight door buttons, alarm button, variety of key switches, 2000 Fire Service Code and a multilight position indicator.
Custom made for passenger or freight elevators, these CJA hazardous location fixtures are designed for Division 1 applications, will contain an internal explosion, and prevent the ignition of combustible dust.

Class 1 & 2, Division 1 are stringent ratings. For these we use NEMA 7/9 enclosures, buttons and key switches. To make this application more attractive or eye appealing we often will attach a stainless steel cover “skin.” This “skin” can be custom engraved and gives the fixture more of a conventional elevator product appearance. In addition, it can contain information such as fire service instructions, etc. which cannot be put on the covers of the standard NEMA 7/9 enclosure.

Custom engraving is available, including arrows, words, pictograph, logos and instructions.

**Features**
- Stainless Steel #4 Finish Skin
- CJA Aluminum Buttons
- Any Voltage
- Any number of floors
- Key Switches
- Position Indicators
- Emergency Lighting
- Braille Markings
- Fire Service
- Custom Engraving
- Cast Copper Free Aluminum Enclosures
- Available For NEMA 4 As Well
Car Stations Class 1&2, Division 2 - NEMA 7/9

Pictured Above: 7 stop elevator car panel with power passenger door buttons, alarm button, variety of key switches, 2000 Fire Service Code FEOKI Switch
Car Stations Class 1&2
Division 2 - NEMA 7/9

Custom made for passenger or freight elevators, these CJA hazardous location fixtures are designed for Division 2 applications. In Division 2 conditions, enclosures for non-hazardous locations may be installed if the equipment does not constitute a source of ignition under normal operating conditions.

For these Class 1 & 2 Division 2 applications there are several different approaches which can be used to accommodate these requirements. The one most often selected is the CJA stainless steel button coupled with hermetically sealed contacts. These buttons and contacts can be used with NEMA 7/9 enclosures as shown here, or with NEMA 4X enclosures. The NEMA 4X enclosures are less expensive and can contain many more features than the NEMA 7/9 enclosures.

Custom engraving is available, including arrows, words, pictograph, logos and instructions.

Features
• Stainless Steel #4 Finish Skin
• CJA Aluminum Buttons
• Any Voltage
• Any number of floors
• Key Switches
• Position Indicators
• Emergency Lighting
• Braille Markings
• Fire Service
• Custom Engraving
• Cast Copper Free Aluminum Enclosures
• Available For NEMA 4 As Well

Pictured Above: Our CJA NEMA 7 C1D2 Pushbutton, Illuminated

Pictured Above: Our CJA NEMA 7 C1D2 Pushbutton & Key Switch.
Designed To Prevent an Explosion

Pictured Right: Class 1, Division 2 Car Station with NEMA 4X Equipped Enclosure Gasketed.
Car Stations Class 1&2
Division 2 - NEMA 4X

Custom made for passenger or freight elevators these CJA hazardous location fixtures are designed for Division 2 applications. In Division 2 conditions, enclosures for non-hazardous locations may be installed if the equipment does not constitute a source of ignition under normal operating conditions.

For these Class 1 & 2 Division 2 applications there are several different approaches which can be used to accommodate these requirements. The one most often selected is the CJA stainless steel button coupled with hermetically sealed contacts. These buttons and contacts can be used with NEMA 4X enclosures as shown here, or with NEMA or 7/9 enclosures.

The NEMA 4X enclosures are less expensive and can contain many more features than the NEMA 7/9 enclosures.

Custom engraving is available, including arrows, words, pictograph, logos and instructions.

Features
• Stainless Steel #4 Finish Cover Plate
• Stainless Steel Buttons
• Any Voltage
• Any number of floors
• Key Switches
• Position Indicators
• Emergency Lighting - Must Be Separate Unit
• Braille Markings
• Telephone Cabinets
• Fire Service
• Custom Engraving
• Seamless Stainless Steel Enclosure
• Water/Oil Resistant gasket
Terminal Hall Stations
Bottom & Top Floors

Class 1, Division 1
NEMA 7/9
Terminal Hall Fixtures for top and bottom landings are available as surface or flush models.

Manufactured with NEMA 7/9 enclosures and utilizing heavy duty Class 1, Division 1 rated components, these fixtures are not only invincible but provide the explosion proof protection you’re looking for. They are available as both surface or flush mounted per your requirements.

Class 1, Division 2
NEMA 7/9
Manufactured with NEMA 7/9 enclosures and utilizing heavy duty Class 1, Division 2 rated components, these fixtures are not only invincible but provide the explosion proof protection you’re looking for. They are available as both surface or flush mounted per your requirements.

Class 1, Division 2
NEMA 4X
Built to strict quality and explosion proof standards, these fixtures feature the following: Stainless Steel Buttons, Enclosures and 11 Gauge Cover plates with Class 1, Division 2 rated contact blocks.

Class 1, Division 2 NEMA 4X Fixtures offer protection against explosion by utilizing explosion proof electrical contacts wherever a make and break contact is used.

Features
Custom engraving is available, including arrows, words, pictograph, logos and instructions.

C.J. Anderson & Company manufactures a complete line of Hall Stations for Class 1, Division 2 - NEMA 4X Hazardous Locations. Please call with your requirements or specifications.

Call us toll free: 1-800-252-1910 and ask for our fixture team.
General Information

Custom made for passenger or freight elevators, these CJA hazardous location fixtures are designed and manufactured based on your requirements. Tell us what you need and we’ll take care of the rest.

Custom engraving is available, including arrows, words, pictograph, logos and instructions.

Features
• CJA Buttons
• Any Voltage
• Any number of floors
• Key Switches
• Position Indicators
• Emergency Lighting
• Braille Markings
• Fire Service
• Custom Engraving
• Cast Copper Free Aluminum Enclosures
• Available For NEMA 4 As Well
**Class 1, Division 1 NEMA 7/9**

Terminal Hall Fixtures for top and bottom landings are available as surface or flush models.

Manufactured with NEMA 7/9 enclosures and utilizing heavy duty Class 1, Division 1 rated components, these fixtures are not only invincible but provide the explosion proof protection you’re looking for. They are available as both surface or flush mounted per your requirements.

---

**Class 1, Division 2 NEMA 7/9**

Manufactured with NEMA 7/9 enclosures and utilizing heavy duty Class 1, Division 2 rated components, these fixtures are not only invincible but provide the explosion proof protection you’re looking for. They are available as both surface or flush mounted per your requirements.

---

**Class 1, Division 2 NEMA 4X**

Built to strict quality and explosion proof standards, these fixtures feature the following: Stainless Steel Buttons, Enclosures and 11 Gauge Cover plates with Class 1, Division 2 rated contact blocks.

Class 1, Division 2 NEMA 4X Fixtures offer protection against explosion by utilizing explosion proof electrical contacts wherever a make and break contact is used.

---

**Features**

Custom engraving is available, including arrows, words, pictograph, logos and instructions.

C.J. Anderson & Company manufactures a complete line of Hall Stations for Class 1, Division 2 - NEMA 4X Hazardous Locations. Please call with your requirements or specifications.

Call us toll free: 1-800-252-1910 and ask for our fixture team.
General Information

Custom made for passenger or freight elevators, these CJA hazardous location fixtures are designed and manufactured based on your requirements. Tell us what you need and we’ll take care of the rest.

Custom engraving is available, including arrows, words, pictograph, logos and instructions.

Features

• Stainless Steel #4 Finish Skin
• CJA Aluminum Buttons
• Any Voltage
• Any number of floors
• Key Switches
• Position Indicators
• Emergency Lighting
• Braille Markings
• Fire Service
• Custom Engraving
• Cast Copper Free Aluminum Enclosures
• Available For NEMA 4 As Well

Pictured Above:
Flush Mount: Class 1, Division 2 NEMA 7
Hall Station

Pictured Above:
Flush Mount End/Top View Of NEMA 7
Enclosure - Note Red Plugs protect conduit entrances

Pictured Above:
Surface Mount End/Top View Of NEMA 7
Enclosure - Note Red Plugs protect conduit entrances

Pictured Left: Flush Mount Option for
NEMA 4X Class 1, Division 2 Applications
(Enclosure goes in the wall)

Pictured Right: Surface Mount Option for
NEMA 4X Class 1, Division 2 Applications
(Enclosure goes on top of the wall)
Our standard NEMA 7 Car/Hall Multilight PI features heavy duty enclosures, drilled and sealed lenses. Since we engrave the cover plate we can accommodate any floor marking required, from elevation markings to floors marked with names.

These units are manufactured with standard incandescent type bulbs in the voltage you require. LED illumination is available to cut down on re-lamping.

**Class 1&2, Division 1&2**
**NEMA 7/9**
In addition to vandal proof lenses we offer our NEMA 7/9 model in a surface mounting unit, which means no cutout required. Round Lenses

**Class 1, Division 2**
**NEMA 4X**
In addition to vandal proof lenses we offer our NEMA 4X model in a surface mounting unit, which means no cutout required. Specify floor markings when ordering.

3/8” Vandal Proof Surface Mount PI. Design
With Engraved Floor Markings
Meets the Requirements of Class 1, Division 2
**General Information**

Custom made for passenger or freight elevators, these CJA hazardous location fixtures are designed and manufactured based on your requirements. Tell us what you need and we’ll take care of the rest.

Custom engraving is available, including arrows, words, pictograph, logos and instructions.

**Features**
- Encapsulated Lenses
- Any Voltage
- Any number of floors
- Incandescent or LED Illumination
- Custom Engraving
- Cast Copper Free Aluminum Enclosures
- Available For NEMA 4 As Well

**Ordering Information**
Choose from below.

**MODELS AVAILABLE**
- Class1 & 2, Division 1 - NEMA 7/9
- Class1 & 2, Division 2 - NEMA 7/9
- Class1 & 2, Division 2 - NEMA 4X

- Floor Markings: write in below.

**Lamp Voltage**
- 24V
- 48V
- 110/120V

**Lamp Type**
- LED
- Incandescent

**Mounting**
- Surface Mount
- Flush Mount

Pictured Above: Depending on the number of floors you have we sometimes can incorporate PI’s into hall stations.

NEMA 7 - Class 1, Division 1 - Surface Mount
A requirement by the Americans with Disabilities Act, each of our hall and car directional lanterns is equipped with a 2.5” wide illuminating arrow.

These can be mounted vertically or horizontally above the elevator door entrance or just to the side of it. These units indicate the direction the elevator is traveling.

Vandal proof models have drilled and filled holes that permit illumination while preventing vandals from breaking plastic lenses. Each arrow is illuminated using incandescent lamps.
Ordering Information

Each directional lantern comes ready to install. Light bulbs, cover plate and enclosure are standard for each unit. Please note we are unable to provide chimes due to the explosion proof rating of these devices but we can provide a horn. Also note that the size of these fixtures are quite large. You may not have room to place in the jamb of an elevator. Other possible mounting locations include the back of the elevator as long as it is visible from the hallway. You can also meet ADA by mounting one lantern at each floor elevator entrance.

MODELS AVAILABLE
716-114-7 Terminal Lantern - N7
One Arrow
Choose Features Below

716-115-7 Intermediate Lantern - N7
Two Arrows
Choose Features Below

716-114-4X Terminal Lantern - N4X
One Arrow-C1,D2
Choose Features Below

716-115-4X Intermediate Lantern
NEMA 4X - C1,D2
Two Arrows
Choose Features Below

Face Plate Options
☐ - Vertical Mount
☐ - Horizontal Mount

Mounting Option
☐ - Flush Mount Design
☐ - Surface Mount Design

Voltage For Lamps
☐ - 24V
☐ - 48V
☐ - 110/120V

NEMA 4X Car or Hall Intermediate Lantern, Vertical Vandal Proof Lens, Flush Mount
Class 1, Division 2 - NEMA 4X
(chime not included and not available)
**Communication Cabinets and The Devices That Go Inside**

**Handset Type Phones**

**Class 1, Division 1**
Standard handset type telephones that meet the requirements of Class 1, Division 1 - NEMA 7/9. These heavy duty units can be mounted on any wall or inside a telephone cabinet.

**Class 1, Div. 2**
For Class 1, Division 2 atmospheres, the EP600 telephone provides a safe, reliable and flexible solution. These are surface mount units.

**NEMA 4X Cabinets**
We offer water, corrosion and dust tight cabinets for a variety of applications. What you put in them is up to you, electrical or non-electrical. Each heavy duty hinged door and handle assembly can take a beating. Cabinets are available with braille markings and/or locking handle and can have custom engraving.

**ADA Auto Dialing**
This communication station is a surface mounted fixture designed to meet ADA and other communication requirements.

The only ADA communication station that meets the requirements of Class 1, Division 1, NEMA 7/9, this unit is line powered and is easy to program. When the button is pushed it calls up to two separate emergency numbers and provides both receivers with a voice message, programmed by customer, to announce location and emergency.

**NEMA 7 Intercom**
The only explosion proof push to talk intercom system on the market. Simply mount each unit, connect our DLE-200 module, which requires 110 VAC power and you’re set!

**ITEM: 636-720 - Telephone Only**
No ringer; dial out only.

**ITEM: 716-204-4X Cabinet:**
23” x 11” x 5.5” - Hinged right to be used in conjunction with explosion proof telephone.

**ITEM: 716-204-4X Cabinet:**
23” x 11” x 5.5” - Hinged right to be used in conjunction with explosion proof telephone.

---

**ITEM: 636-720 - Telephone Only**
No ringer; dial out only.

**ITEM: 716-204-4X Cabinet:**
23” x 11” x 5.5” - Hinged right to be used in conjunction with explosion proof telephone.

---

Order Toll-Free: 1 800 252 1910 • www.cjanderson.com • Fax: 1 708 867 5467
Handset Telephone - NEMA 7
Product Features
• Over sized buttons for gloves-on operation
• Corrosion and moisture resistant circuitry
• Intrinsically safe handset with heavy duty cord
• Field replaceable handset and fuse
• Explosion proof, no isolation barrier required
• Copper-free cast aluminum housing
• Basic Telephone No Ringer, Dial Out Only

MODELS AVAILABLE
Class 1, Division 1 - NEMA 7/9
636-720 Telephone 401P Only
  Surface Mount
  No Ringer
636-720-R Telephone 401P & Ringer
  Surface Mount
636-721 Telephone 401PC and
  NEMA 4X Cabinet
  Flush Mount

NEMA 4X Cabinet - Extra Large
Product Features
• Designed For NEMA 7 Telephone
• Hinged Cover plate
• NEMA 4X Design - Water/Corrosion Resistant
• Gasketed & Engraved Cover plate
• Recessed Braille Marking

MODELS AVAILABLE
NEMA 4X - Telephone Cabinets
716-204-4X Cabinet: 23” x 11” x 5.5”

Handset Telephone - Class 1, Div 2
Product Features
• Nylon Enclosure and Hinged Cover Plate
• Surface Mount Low Profile Design.
• Meets Class 1, Division 2
• High Visibility Yellow Enclosure

MODELS AVAILABLE
Class 1, Division 2 - NEMA 4X
636-722 Telephone EP600
  Surface Mount

Auto Dialing Telephone - NEMA 7
Product Features
• Line Powered Telephone
• Auto Dials When Pushbutton Pressed
• Ability to call into elevator and Listen
• Copper-free cast aluminum housing
• Engraved Markings
• 2 Number Programmable

MODELS AVAILABLE
636-701 NEMA 7 - C1,D1
Auto Dialing Telephone NEMA 7

Intercom System - NEMA 7
Product Features
• 2 Surface Mount 636-701
• DLE 200 - Power Supply
• Auto Dials When Pushbutton Pressed
• Copper-free Cast Aluminum Housing
• Engraved Markings
• 2 Number Programmable

MODELS AVAILABLE
636-701-IC NEMA 7 - C1,D1
Intercom Comes Complete with two 636-701’s &
one DLE-200 Unit

Ordering Information

Item: 636-720-R - Telephone, ringer mounted on base plate for surface mounting.

Item: 636-722 - Telephone on base plate for surface mounting. - Class 1, Division 2

ITEM: 636-701
NEMA 7 Auto Dialing Telephone
Surface Mount
Emergency Lighting & Alarm Bells

**Emergency Lighting**
Because of the hazardous location rating these emergency lights must be separate fixtures and cannot be incorporated into any car station.

Each includes our EL100 emergency light system with battery backup and will instantly turn on in the event of a power outage.

Each emergency light requires a 110VAC power feed for charging and outputs 6VDC to power either the alarm bell or horn.

**Alarm Bells**
Our explosion proof bells come in a variety of voltages to meet your hazardous location requirements.

Use them for the following:
- Alarm, Emergency Stop, Fire Service Notification and for Door Open.

Each meets Class 1&2, Division 1&2 - NEMA 7/9 Requirements and is a 6’ Diameter Gong

**Horns**
Our explosion proof horns come in a variety of voltages to meet your hazardous location requirements.

Use them for the following:
- Alarm, Emergency Stop, Fire Service Notification and Door Open.

Each meets Class 1&2, Division 1&2 - NEMA 7/9 Requirements
Ordering Information

Emergency Lighting
Product Features
• Cast Copper Free Aluminum Enclosure
• Filled Lenses
• Meets Class 1, Division 1 - NEMA 7
• 4 Hour Battery
• Available in Surface or Flush Mount
• 110VAC Trickle Charge Input - 6VDC Output

MODELS AVAILABLE
Class 1, Division 1 - NEMA 7/9
716-210-7-F Emergency Light Unit
Flush Mount - N7
716-210-7-S Emergency Light Unit
Surface Mount - N7

ACCESSORIES
742-426-6 Hazardous Location
Alarm Bell - 6VDC

Alarm Bells
Product Features
• Powder Coated Alarm Bell
• Sealed Junction Box
• Gasketed Cover
• Sound Level at 10 Feet - exceeds 75dBA

MODELS AVAILABLE
Class 1&2, Division 1&2-NEMA 7/9
742-426-120 Hazardous Location
Bell - 110VAC
742-426-24A Hazardous Location
Bell - 24VAC
742-426-24D Hazardous Location
Bell - 24VDC
742-426-6D Hazardous Location
Bell - 6VDC

Horns
Product Features
• Powder Coated Alarm Bell
• Sealed Junction Box
• Gasketed Cover
• Sound Level at 10 Feet - exceeds 75dBA

Alarm Bell Shown Above
Flush Mount Lights
Class 1&2, Division 1: NEMA 4
These flush mounted units are designed to provide a standard lighting appearance while providing protection against explosion.

Bulb access is from both inside the elevator and on top of it. These units require four bulbs. Many elevators require two units depending on lighting requirements.

These fixtures will run off of any 120VAC circuit. Sizes shown are Length x Width x Depth/Height.

Surface Mount Lights
Class 1&2, Division 1: NEMA 7/9 and NEMA 4
These surface mounted units can be mounted from the cab ceiling or suspended from rigid conduit and explosion proof fittings.

We offer these lights in a variety of wattage and for both warm and cold environments. Many elevators require two units depending on the size of the cab.

These fixtures will run off of any 120VAC circuit. Sizes shown are Length x Width x Depth/Height.

Cab Fan
This fan is one speed and built to move 855 CFM of air. The design allows for easy installation and wiring.

The 1/4 HP motor is a sealed explosion proof unit. The blade is aluminum, non sparking. This unit meets the requirements of Class 1, Group DX, Class II Group E,F,G.

This unit comes complete with a stainless steel grill. Simply cut the top of the cab for an 12” diameter hole, mount your fan and wire. It’s as easy as 1,2,3.
Ordering Information

Surface Mount Light Fixture
Class 1, Division 1 - NEMA 7
Product Features
• Powder Coated Aluminum Housing
• Gasketed Lens
• Gasketed Coverplate
• Rust and corrosion resistant stainless hardware

MODELS AVAILABLE
Class 1&2,Div1-N7/9: + 50 Degrees
716-212-7  40W Cab Light Fixture
Size: 53”x11.5”x7”
716-213-7  20W Cab Light Fixture
Size: 29”x11.5”x7”
Minimum Starting Temperature of units above is 50 degrees.

Electronic Start Fixtures: -21 Degrees
716-214-7  60W Cab Light Fixture
Size: 53”x11.5”x7”
716-215-7  110W Cab Light Fixture
Size: 53”x11.5”x7”
716-216-7  35W Cab Light Fixture
Size: 29”x11.5”x7”
Minimum Starting Temperature is -21 degrees.

Flush Mounted Light Fixture
Class 1, Division 2 - NEMA 4
Product Features
• Powder Coated Aluminum Housing
• Gasketed Lens
• Gasketed Coverplate
• Rust and corrosion resistant stainless hardware

MODELS AVAILABLE
Class 1&2,Div2-NEMA4: + 50 Degrees
716-217-7  40W Cab Light Fixture
Class 1, Division 2:N4
Size: 49.5”x18”x5.75”
716-218-7  110W Cab Light Fixture
Class 1, Division 2:N4
Size: 99”x18”x5.75”
Minimum Starting Temperature of units above is 50 degrees.

Cab Ventilation Fan
Product Features
• Aluminum Fan Blade
• Stainless Steel Grill
• 855CFM
• Explosion Proof Motor 1/4 HP
• Single Speed Unit

MODELS AVAILABLE
NEMA 4 - Dust Tight /Hazardous Loc.
716-220 Cab Ventilation Fan,
Sealed Motor, Class 1,
Division II System.

*Note due to weight and size requirements unit may ship via Truck Service

Item: 716-212-7 & 716-213-7, 716-215-7 & 716-216-7 - Surface Mount

Item: 716-219-7 & 716-220-7, 716-221-7, 716-222-7, 716-223-7 - Surface Mount
Pit Switches Hazardous Locations

Pit switches are a must for any elevator system. In some cases two are required for extra deep elevator pits.

These surface mount pit switches include NEMA 7/9 enclosure, Class 1, Division 1 Heavy Duty Push/Pull Switch and custom engraved text on the coverplate.

For Class 1, Division 2 NEMA 7/9 models our VX pushbutton assembly uses contacts rated for Class 1, Division 2 hazardous locations.
Ordering Information

**Pit Switches**

Product Features
- Stainless Steel NEMA 4X Enclosures or Cast Copper Free Enclosures
- Gasketed Pushbutton
- Gasketed Coverplate - 4X
- Engraved Cover Plate
- Rust and corrosion resistant stainless hardware
- Rated Up To 240V, 10A

**MODELS AVAILABLE**

<table>
<thead>
<tr>
<th>Class</th>
<th>Description</th>
<th>Model Number</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>1&amp;2, Div. 1-N7/9: Pit Stop Switch</td>
<td>51101-7-C1D1</td>
<td>Pit Stop Switch</td>
<td>Class 1, Division 1:N7, Size: 12” x 4.5” x 4.5”</td>
</tr>
<tr>
<td>1&amp;2, Div. 2-N7/9: Pit Stop Switch</td>
<td>51101-7-C1D2</td>
<td>Pit Stop Switch</td>
<td>Class 1, Division 2:N7, Size: 12” x 4.5” x 4.5”</td>
</tr>
<tr>
<td>1, Div. 2-N4X: Pit Stop Switch</td>
<td>51101-4X-C1D2</td>
<td>Pit Stop Switch</td>
<td>Class 1, Division 2:N4X, Size: 5.5” x 3.5” x 4”</td>
</tr>
</tbody>
</table>

Dimensions are Length x Width x Depth

Pictured Above:
Surface Mount End/Top View Of NEMA 7 Enclosure - Note Red Plugs protect conduit entrances

Pictured Above: Surface Mount Option for NEMA 4X Class 1, Division 2 Applications (box goes on top of the wall)
Car Top Stations
Car top inspection stations for any hazardous location. These complete fixtures have everything you need: worklight, receptacle and car control features in one nice neat package.

Built to strict quality standards these surface mount units have mounting brackets for easy installation. Stand on them, drive your car over them, and they’ll stand unaffected by almost any abuse. Voltage can range from 24VDC to 110VAC.

Pit Light/Car Bottom
CJA manufactures a variety of under the car/car bottom work light and receptacle fixtures which meet many explosion proof requirements.

All fixtures are designed for surface mounting. These explosion proof 110VAC line powered stations are ideal for any dark environment where lighting for safety is necessary.
Ordering Information

Car Top Inspection Stations

Product Features
- Stainless Steel Seamless NEMA 4X Enclosure
- Receptacles
- NEMA 4, 12, 4X & 7/9 Buttons
- Cast Copper Free Aluminum Enclosures
- Rust and corrosion resistant stainless hardware
- Gasketed Light Bulb Guard

MODELS AVAILABLE
Class 1, Division 1 - NEMA 7/9
722-303-7-C1D1 Car Top Inspection Station Complete w/Worklight and Receptacle

Class 1, Division 2 - NEMA 7/9
722-303-7-C1D2 Car Top Inspection Station Complete w/Worklight and Receptacle

Class 1, Division 2 - NEMA 4X
722-303-4-C1D2 Car Top Inspection Station Complete w/Worklight and Receptacle

Pit/Car Bottom Light & Receptacle

Product Features
- Stainless Steel NEMA 4X Enclosures or Cast Copper Free Enclosures
- Gasketed Pushbutton
- Gasketed Cover Plate - 4X
- Engraved Cover Plate
- Rust and corrosion resistant stainless hardware
- Rated Up To 240VAC, 10A

MODELS AVAILABLE
Class 1, Division 1 - NEMA 7/9
722-304-7-C1D1 Light, Convenience Outlet and Enclosure

Class 1, Division 2 - NEMA 7/9
722-304-7-C1D2 Light, Convenience Outlet and Enclosure

Class 1, Division 2 - NEMA 4X
722-304-4-C1D2 Light, Convenience Outlet and Enclosure

Explosion Proof Outlet. Not GFCI Due To Hazardous Rating

 ITEM: 722-303-7-C1D1
NEMA 7/9 - Class 1, Division 1
Car Top Inspection Station with Worklight & Receptacle

 ITEM: 722-303-4-C1D2
NEMA 4X - Class 1, Division 2
Car Top Inspection Station with Worklight & Receptacle

 ITEM: 722-304-7-C1D1
NEMA 7/9 - Class 1, Division 1
Car Top Inspection Station with Worklight & Receptacle

 ITEM: 722-304-4-C1D2
NEMA 4X - Class 1, Division 2
Car Top Inspection Station with Worklight & Receptacle
Elevator Controllers
Since 1910 C.J. Anderson & Company has been manufacturing elevator controllers. Explosion Proof Applications are our specialty.

Features
• NEMA 7 Design & Construction
• Cast Copper Free Aluminum
• NEMA 4 Option Available
• Class 1, Div. 1 & 2 Groups - A, B, C & D
• Class II, Div. 1 & 2 Groups - E, F & G
• Class III, Division 1 & 2
• NEMA 3, 4, 7 & 9

Purged Cabinets
If you have a purged line throughout the building you may be able to utilize it and use a NEMA 4/12 or 4X cabinet instead of a NEMA 7. Purging devices pump a continuous supply of air into the cabinet and creates more pressure inside the cabinet than outside.

Available for both Class 1, Division 2 and Class 1, Division 1 this option is one that might be preferable to the traditional NEMA 7 Cabinet option.
Controller Types

**VVVF Variable Voltage Variable Frequency**
For traction elevators traveling faster than 100 FPM. Solid State controls, dynamic braking and force guided relays make our controllers the most solid state in the industry. For elevators that are under 150 feet per minute no encoder feedback from the motor is required. For speeds 150 feet per minute and above we recommend that you use encoder feedback. We can provide a new motor and encoder for your elevator system along with a new controller.

**RTC-1 - Soft Start For One Speed Motors**
For traction elevators that travel less than 90 FPM. With this system, stopping of the elevator occurs when the elevator comes to the floor and the door zone sensor is activated. The brake sets and the elevator stops. The slower the elevator elevator travels the better this controller stops. Motor control is by Power Electronics Smooth Control or soft start from one of the other soft start manufacturers.

**RTC-2 - Soft Start For Two Speed Motors**
For traction elevators with speeds less than 180 feet per minute. This is a very good alternative for older elevators. Soft start units are controlled by the Power Electronics 2 Speed Smooth Move. It slowly ramps up into the first motor winding and then the second and it also has the ability to slow down when a selector is added to your elevator. We can provide this as a PLC Based system or relay logic without Fire Service for repair or like for like replacements.

**Hydraulic - Soft Start, Wye Delta or SOL**
Our CJA controllers for hydraulic projects are ideal for direct replacement or new installations and have solid state industry type PLC and components that are readily available and off the shelf in the event of a shut down. Available with Soft Start, Wye Delta or Straight Accross The Line, we can build a controller to meet your specifications.

**VVVF Line Regen**
Line Regeneration with elevator controllers is being specified for more and more projects. Instead of energy transforming into heat when the elevator stops and dissipating into a resistor bank, the energy that's created when the elevator stops gets pushed back into the AC line through a REGEN unit. The upfront cost associated with line regenerative drives is more than a traditional VVVF controller. However over time you'll know that your elevator is conserving what used to be wasted energy and helping in your effort to keep your building green.

**SCR - For DC Motors**
They are still out there, elevators running with DC motors. We still build elevator controllers for these types of applications utilizing a solid state SCR Drive. We also use PLC Based logic, encoder feed back and recommend you installing a new line isolation transformer to ensure that noise and interference is kept to a minimum. There's still a market for DC controllers, it's just not as large as for VVVF AC elevators.

Features & Options

**Microprocessor Control (PLC)**
CJA utilizes the best software and PLC’s to achieve the best performance for your elevator. Each Control System has a “brain” which contains a non volatile memory program that cannot be erased in the event of a power outage. Microprocessor control allows CJA to upgrade programs in the future to allow for code changes and new elevator requirements. We also manufacture controllers using PLC’s that are industrial type. One of the most popular among the ones we build with is Allen Bradley.

**Relay Logic**
Need Relay Logic? We still make them. Keep in mind that the price of a Relay based system when compared to a Microprocessor based system is actually more due to an increased number of relays and time involved with manufacturing and testing the controller. Also note that certain Fire Service Codes are not available with this type of logic, and Single Automatic Pushbutton operation can only be accommodated with elevators over three floors. Ideal for elevator speeds under 100 Feet Per Minute and using motor controls that are anything but VVVF. Perfect in some cases for like for like repair replacements.

**Touchscreen Diagnostics**
CJA Microprocessor control systems come equipped with touch screen controls for monitoring the elevator and reporting faults of the system, such as bad door interlock contacts. Each LCD screen is easy to navigate through and also allows the mechanic the ability to change simple parameters such as door timing and alternative floor for fire service. This is a standard feature on all PLC based controllers.

**Easy to Wire Terminal Blocks**
Easy to view and wire terminal blocks make wiring a breeze. We specifically use easy to wire blocks to help with wiring.

**Controller Air Conditioners & Heaters**
We can upon request provide cabinet cooled air conditioners to prevent damage to both microprocessor and solid state motor controls for excessively hot machine rooms. Available in NEMA 1, 4/12 and 4X, we can easily provide them should you require one. Each unit is wired directly in to the control system and comes with a manually adjusted thermostat. Heaters are also available for colder climates as well.

**Motor Control**
Constant Pressure, Car Switch, Single Speed, Two Speed, Hydraulic, Variable Frequency Variable Voltage or DC SCR Applications. We can manufacture your controller for any horsepower or elevator speed you need. This is dependent upon what type of system you have.

These are just a few of the many features available to you when you purchase a CJA Control System. Each control system is built to your job specifications and tested prior to shipping. Call today for controller pricing on your next project.
Tape Selector

The Magna-Track was the first and is the only magnetic tape leveling system on the market today.

It is manufactured in compliance with the NEC code for Class 1, Division 1 Hazardous Locations. It utilizes 3" wide stainless steel tape.

We provide three magnets for each intermediate floor on your elevator and two magnets for terminal landings.

There are three lanes, one for up slow down, one for down slow down and a center lane for Level Up, Door Zone and Level Down.

Pictured Above: Front or Face of the selector system shown with sensors, up slow down, level up, level down door zone and down slow downs.

Pictured Above: Front of selector system shown with LED sensor lenses.
Ordering Information

**Magna-Track Selector System**

Features:
- Die Cast Aluminum Enclosure & Coverplate
- Copper Free Aluminum
- Dry Contacts Rated for 24-240VAC/VDC
- 110VAC to Power Unit
- LED Indicators Read through the Coverplate

**MODELS AVAILABLE**

636-530 Magna-Track Selector with 5 Sensors

Specify number of floors and elevator hoistway length when ordering. For elevators that require more than 100 feet of tape the additional amount needed will be charged a our current per foot price. Note that you may not need all the sensors on the unit.

**REPLACEMENT COMPONENTS**

- 636-514 Tape Guides - Plastic Heavy Duty - Four Required Per Magna-Track
- 636-517 Magnets for Magna-Track Sensors - Read Both Positive & Negative
- 636-543 Magna-Track Selector Board
- 636-536 Magna Track Selector Sensor
- 636-516 Selector Tape 3” Wide Priced By Foot

**Ordering Information**

- Item: 636-514 Each Magna Track Comes with 100 Feet of Tape - Additional length charged per foot required.

- Item: 636-536 Sensor

- Item: 636-543 - Magna Track Board

- Item: 636-514 - Tape Guides

**Sensor Locations & Magnet Mounting**

Door Zone, Leveling Magnets
With Elevator at Floor, Level Mark on tape center position of floor zone sensor. Move car away from floor & mount magnet. Only DZ should be on when elevator is a landing.

Slow Down Magnet Position - Consult Controller manufacturer to determine distance away from each floor magnet needs to be. We recommend 6” for every 25 Feet of Car Speed. This also depends on if you are installing a controller with a soft start, or VVF System.
Complete Packages
CJA Hatch Switch Packages are ideal for any new installation or modernization. Each kit comes complete with everything required to install: 6 Limit Switches, 6 Mounting Brackets and 1 Car Riding Cam.

Two different packages are available. NEMA 7 Class 1, Division 1 & NEMA 4 Class 1, Division 2.

Item: 534-301-N7
NEMA 7 Limit Switch Used In Class 1, Division 1 Hatch Switch Packages
1 N.O. & 1 N.C. Contact
Class 1, Division 1, Groups B,C & D
Class 1, Division 2, Groups A,B,C,&D
Ordering Information

**NEMA 7 Class 1, Division 1**

Features
- Die Cast Bodies & Covers
- Heavy Duty Contacts
- Sealed Contacts- Class 1, Division 2
- Replaceable Components

**MODELS AVAILABLE**

- **CJA-HSP-C1D2**  
  Class 1, Division 2  
  Hazardous Location  
  Hatch Switch Package

- **CJA-HSP-N7**  
  Class 1, Division 1  
  Hazardous Location  
  Hatch Switch Package

*Item: CJA-HSP-N7*  
Hatch Switch Package  
6 Limits, 6 Mounting Brackets, 1 Car Riding Cam

---

**Hatch Switch Packages - Hazardous Location**

- **C-8 XP - 1 N.C. Contact & Mounting Bracket**
- **C-81 XP - 1 N.C. Contact & Mounting Bracket**
- **CB-51 XP - 1 N.O. & 1 N.C. Contact & Mounting Bracket**
- **C-8 XP - 1 N.C. Contact & Mounting Bracket**
- **CB-51 XP - 1 N.O. & 1 N.C. Contact & Mounting Bracket**
- **C-81 XP - 1 N.C. Contact & Mounting Bracket**

---

**NEMA 7 Limit Switches**

- 1 N.O. & 1 N.C. Contact
Motors - Sealed
We work with a few motor manufacturers who are dedicated to providing quality motors for the elevator industry and that meet the requirements of hazardous location.

If you don’t see your HP or voltage or frame size listed here please give us a call. We’ll help you locate the motor type you need.

Door Protection
The CJA Class 1& 2, Division 2 - NEMA 4 Photo Eye door protection device can be used on any type of power door, passenger or freight. It’s a great way to make your elevator a safer place to travel.

Each Photo Eye has a normally opened contact which closes when the light beam is broken. It then powers a relay already in the control system or on the door operator not to close the doors.

Dimensions of each unit are 1.54” wide x 4.89” tall x 1.78” deep. Can be connected to voltages ranging from 20 - 264 Volts AC or DC.

Encoders - Sealed
There are few motor manufacturers out there that can supply hazardous location encoders with motors due to the design, construction and sealing of the motor. If a motor is required to have an encoder we will do our best to find the RPM, Voltage and HP that you required.

For elevator speeds over 140 FPM we recommend utilizing encoder feedback with a VVVF drive.
Ordering Information

**Motors - Explosion Proof**

Product Features
- Squirrel Cage Rotor / Aluminum Die Cast
- Class F Insulation
- Totally Enclosed Fan Cooled - TEFC (IP55)
  - water tight and dust tight enclosure
- Non Sparking Fan
- Division 1, Class I, Groups C and D
- Division 1, Class 2, Groups F and G
- Voltage: 208-230/460V, 200V, 460V or 575V
- Service Factor: 1.25 up to 100HP
- Continuous duty (S1)
- 104°F (40°C) ambient temperature
- Altitude: 3300 ft (1000m)
- Call for pricing for Encoder Kits

**Light Curtain - Photo Electric**

MODELS AVAILABLE
- 636-601 Photo Eye and Reflector Kit - Two of these are required to meet ADA code.

**Encoders - Hollow Shaft**

Please call for additional information. Note that in many cases hazardous location encoders must be installed by a UL Listed motor shop in order to maintain the hazardous location rating on the motor. Hazardous location motors as well are typically tough to add an encoder to once it’s been installed.

**MODELS AVAILABLE**

Please call for more information.

**MODELS AVAILABLE - W/O ENCODER**

<table>
<thead>
<tr>
<th>Model</th>
<th>Power</th>
<th>RPM</th>
<th>Frame, Voltage</th>
</tr>
</thead>
<tbody>
<tr>
<td>363-276-XP5</td>
<td>5 HP</td>
<td>1200 RPM</td>
<td>215T, 208-230/460V</td>
</tr>
<tr>
<td>363-276-XP7.5</td>
<td>7.5 HP</td>
<td>1200 RPM</td>
<td>254T, 208-230/460V</td>
</tr>
<tr>
<td>363-276-XP10</td>
<td>10 HP</td>
<td>1200 RPM</td>
<td>256T, 208-230/460V</td>
</tr>
<tr>
<td>363-276-XP15</td>
<td>15 HP</td>
<td>1200 RPM</td>
<td>854T, 208-230/460V</td>
</tr>
<tr>
<td>363-276-XP20</td>
<td>20 HP</td>
<td>1200 RPM</td>
<td>286T, 208-230/460V</td>
</tr>
<tr>
<td>363-276-XP25</td>
<td>25 HP</td>
<td>1200 RPM</td>
<td>324T, 208-230/460V</td>
</tr>
<tr>
<td>363-276-XP30</td>
<td>30 HP</td>
<td>1200 RPM</td>
<td>324T, 208-230/460V</td>
</tr>
<tr>
<td>363-276-XP40</td>
<td>40 HP</td>
<td>1200 RPM</td>
<td>364T, 208-230/460V</td>
</tr>
<tr>
<td>363-276-XP50</td>
<td>50 HP</td>
<td>1200 RPM</td>
<td>365T, 208-230/460V</td>
</tr>
<tr>
<td>363-276-XP60</td>
<td>60 HP</td>
<td>1200 RPM</td>
<td>404T, 208-230/460V</td>
</tr>
<tr>
<td>363-276-XP75</td>
<td>75 HP</td>
<td>1200 RPM</td>
<td>405T, 208-230/460V</td>
</tr>
</tbody>
</table>

**General Layout Guide**

The Class 1, Division 2 - NEMA 4 Photo Eye Door Protection Device works on any type of door and covers a span of 18 feet. Each unit requires only 2 inches of space to mount.

Order a unit for each door height you require protection for.

Mount Photo Eye Sensor on Side of Elevator Opening

Elevator Opening

Elevator Platform

Elevator Door (shown opened)

Mount Reflectors on Elevator Door

Opens/Closes

29” AFF

5” AFF

Order Toll-Free: 1 800 252 1910 • www.cjanderson.com • Fax: 1 708 867 5467
Seal Tight Fittings
Required for explosion proof applications. When sealed with mineral wool and cement prevents the passage of gas throughout the explosion proof wiring system. Fittings should be installed within 6" of a device that produces sparks, arcs or high temperature.

Features:
- Die Cast Aluminum Bodies
- Copper Free Aluminum
- Corrosion Resistant Paint
- Class 1, Div. 1 & 2 - Groups A, B, C & D
- Class II, Div. 1 & 2 - Groups E, F & G
- Class III, Division 1 & 2
- NEMA 3, 4, 7 & 9

XP Conduit Unions
Conduit unions are best used to connect conduit fittings to allow disassembly without turning the conduit. Must be used with rigid conduit.

Features:
- Die Cast Aluminum Bodies
- Copper Free Aluminum
- Corrosion Resistant Paint
- Class 1, Div. 1 & 2, Groups C & D
- Class II, Div. 1
  - Groups E, F & G
- Class II, Div. 2
  - Groups F & G
- Class III
- NEMA 7 - Groups C & D,
- NEMA 9 - Groups E, F & G

Conduit Boxes
Small but necessary to route wires. Keep in mind that seal tight fittings are required to be installed within 6" from every conduit box/fixture entrance. We can provide larger junction boxes with terminal strips upon request.

Features:
- Die Cast Aluminum Bodies
- Copper Free Aluminum
- Corrosion Resistant Paint
- Class 1, Div. 1 & 2, Groups B, C & D
- Class II, Div. 1 & 2 Groups E, F & G
- NEMA 3, 4, 7 & 9
### Ordering Information

#### 2 Hub - Outlet Box

<table>
<thead>
<tr>
<th>MODELS AVAILABLE</th>
<th>1/2&quot; Hub Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>GREZ-0466</td>
<td></td>
</tr>
<tr>
<td>GREZ-0467</td>
<td>3/4&quot; Hub Size</td>
</tr>
<tr>
<td>GREZ-0583</td>
<td>1&quot; Hub Size</td>
</tr>
<tr>
<td>GREZ-0588</td>
<td>1-1/4&quot; Hub Size</td>
</tr>
<tr>
<td>GREZ-0599</td>
<td>1-1/2&quot; Hub Size</td>
</tr>
<tr>
<td>GREZ-0604</td>
<td>2&quot; Hub Size</td>
</tr>
</tbody>
</table>

#### 3 Hub - Outlet Box

<table>
<thead>
<tr>
<th>MODELS AVAILABLE</th>
<th>1/2&quot; Hub Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>GRCZ-0464</td>
<td></td>
</tr>
<tr>
<td>GRCZ-0465</td>
<td>3/4&quot; Hub Size</td>
</tr>
<tr>
<td>GRCZ-0557</td>
<td>1&quot; Hub Size</td>
</tr>
<tr>
<td>GRCZ-0590</td>
<td>1-1/4&quot; Hub Size</td>
</tr>
<tr>
<td>GRCZ-0563</td>
<td>1-1/2&quot; Hub Size</td>
</tr>
<tr>
<td>GRCZ-0581</td>
<td>2&quot; Hub Size</td>
</tr>
</tbody>
</table>

#### 3 Hub - Outlet Box

<table>
<thead>
<tr>
<th>MODELS AVAILABLE</th>
<th>1/2&quot; Hub Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>GRLZ-0460</td>
<td></td>
</tr>
<tr>
<td>GRLZ-0461</td>
<td>3/4&quot; Hub Size</td>
</tr>
<tr>
<td>GRLZ-0573</td>
<td>1&quot; Hub Size</td>
</tr>
<tr>
<td>GRLZ-0592</td>
<td>1-1/4&quot; Hub Size</td>
</tr>
<tr>
<td>GRLZ-0574</td>
<td>1-1/2&quot; Hub Size</td>
</tr>
<tr>
<td>GRLZ-0577</td>
<td>2&quot; Hub Size</td>
</tr>
</tbody>
</table>

#### 4 Hub - Outlet Box

<table>
<thead>
<tr>
<th>MODELS AVAILABLE</th>
<th>1/2&quot; Hub Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>GRTZ-0462</td>
<td></td>
</tr>
<tr>
<td>GRTZ-0463</td>
<td>3/4&quot; Hub Size</td>
</tr>
<tr>
<td>GRTZ-0555</td>
<td>1&quot; Hub Size</td>
</tr>
<tr>
<td>GRTZ-0594</td>
<td>1-1/4&quot; Hub Size</td>
</tr>
<tr>
<td>GRTZ-0560</td>
<td>1-1/2&quot; Hub Size</td>
</tr>
<tr>
<td>GRTZ-0579</td>
<td>2&quot; Hub Size</td>
</tr>
</tbody>
</table>

#### 5 Hub - Outlet Box

<table>
<thead>
<tr>
<th>MODELS AVAILABLE</th>
<th>1/2&quot; Hub Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>GRXZ-0468</td>
<td></td>
</tr>
<tr>
<td>GRXZ-0469</td>
<td>3/4&quot; Hub Size</td>
</tr>
<tr>
<td>GRXZ-0586</td>
<td>1&quot; Hub Size</td>
</tr>
<tr>
<td>GRXZ-0596</td>
<td>1-1/4&quot; Hub Size</td>
</tr>
<tr>
<td>GRXZ-0602</td>
<td>1-1/2&quot; Hub Size</td>
</tr>
<tr>
<td>GRXZ-0607</td>
<td>2&quot; Hub Size</td>
</tr>
</tbody>
</table>

### XP Sealing Fittings

<table>
<thead>
<tr>
<th>MODELS AVAILABLE</th>
<th>1/2&quot; NPT-Female to Female</th>
</tr>
</thead>
<tbody>
<tr>
<td>EYS-0452</td>
<td></td>
</tr>
<tr>
<td>EYS-0452-N</td>
<td></td>
</tr>
<tr>
<td>EYS-0453</td>
<td>3/4&quot; NPT-Female to Female</td>
</tr>
<tr>
<td>EYS-0453-N</td>
<td></td>
</tr>
<tr>
<td>EYS-0550</td>
<td>1&quot; NPT-Female to Female</td>
</tr>
<tr>
<td>EYS-0550-N</td>
<td></td>
</tr>
<tr>
<td>EYS-2633</td>
<td>1-1/4&quot; NPT-Female to Fem.</td>
</tr>
<tr>
<td>EYS-2633-N</td>
<td></td>
</tr>
<tr>
<td>EYS-2634</td>
<td>1-1/2&quot; NPT-Female to Fem.</td>
</tr>
<tr>
<td>EYS-2634-N</td>
<td></td>
</tr>
<tr>
<td>EYS-2635</td>
<td>2&quot; NPT-Female to Female</td>
</tr>
<tr>
<td>EYS-2635-N</td>
<td></td>
</tr>
<tr>
<td>CE-2571</td>
<td></td>
</tr>
</tbody>
</table>

#### XP Conduit Unions

<table>
<thead>
<tr>
<th>MODELS AVAILABLE</th>
<th>1/2&quot; NPT-Female to Female</th>
</tr>
</thead>
<tbody>
<tr>
<td>TU-2992</td>
<td></td>
</tr>
<tr>
<td>TU-2993</td>
<td>3/4&quot; NPT-Female to Female</td>
</tr>
<tr>
<td>TU-2994</td>
<td>1&quot; NPT-Female to Female</td>
</tr>
<tr>
<td>TU-2995</td>
<td>1-1/4&quot; NPT-Female to Fem.</td>
</tr>
<tr>
<td>TU-2996</td>
<td>1-1/2&quot; NPT-Female to Fem.</td>
</tr>
<tr>
<td>TU-2997</td>
<td>2&quot; NPT-Female to Female</td>
</tr>
<tr>
<td>TU-2992-N</td>
<td>1/2&quot; NPT-Female to Male</td>
</tr>
<tr>
<td>TU-2993-N</td>
<td>3/4&quot; NPT-Female to Male</td>
</tr>
<tr>
<td>TU-2994-N</td>
<td>1&quot; NPT-Female to Male</td>
</tr>
<tr>
<td>TU-2995-N</td>
<td>1-1/4&quot; NPT-Female to Male</td>
</tr>
<tr>
<td>TU-2996-N</td>
<td>1-1/2&quot; NPT-Female to Male</td>
</tr>
<tr>
<td>TU-2997-N</td>
<td>2&quot; NPT-Female to Male</td>
</tr>
</tbody>
</table>

---

**XP Sealing Fittings**

- EYS-0452: 1/2" NPT-Female to Female
- EYS-0452-N: 1/2" NPT-Female to Male
- EYS-0453: 3/4" NPT-Female to Female
- EYS-0453-N: 3/4" NPT-Female to Male
- EYS-0550: 1" NPT-Female to Female
- EYS-0550-N: 1" NPT-Female to Male
- EYS-2633: 1-1/4" NPT-Female to Fem.
- EYS-2633-N: 1-1/4" NPT-Female to Male
- EYS-2634: 1-1/2" NPT-Female to Fem.
- EYS-2634-N: 1-1/2" NPT-Female to Male
- EYS-2635: 2" NPT-Female to Female
- EYS-2635-N: 2" NPT-Female to Male
- CE-2571: 2 Pound Can of Sealing Cement and Wool

**Wool & Sealing Cement**

- Wool
- Sealing Cement

---

**XP Conduit Unions**

- TU-2992: 1/2" NPT-Female to Female
- TU-2993: 3/4" NPT-Female to Female
- TU-2994: 1" NPT-Female to Female
- TU-2995: 1-1/4" NPT-Female to Fem.
- TU-2996: 1-1/2" NPT-Female to Fem.
- TU-2997: 2" NPT-Female to Female
- TU-2992-N: 1/2" NPT-Female to Male
- TU-2993-N: 3/4" NPT-Female to Male
- TU-2994-N: 1" NPT-Female to Male
- TU-2995-N: 1-1/4" NPT-Female to Male
- TU-2996-N: 1-1/2" NPT-Female to Male
- TU-2997-N: 2" NPT-Female to Male

---

**Fittings, Conduit Boxes - Hazardous Location**

Order Toll-Free: 1 800 252 1910 • www.cjanderson.com • Fax: 1 708 867 5467 95
Conduit Boxes
Small but necessary to route wires. Keep in mind that seal tight fittings are required to be installed within 6" from every conduit box/fixture entrance. We can provide larger junction boxes with terminal strips upon request.

Features:
- Die Cast Aluminum Bodies
- Copper Free Aluminum
- Corrosion Resistant Paint
- Class 1, Div. 1 & 2, Groups B, C & D
- Class II, Div. 1 & 2
- Groups E, F & G
- NEMA 3, 4, 7 & 9

XP Conduit Unions
Conduit unions are best used to connect conduit fittings to allow disassembly without turning the conduit. Must be used with rigid conduit.

Features:
- Die Cast Aluminum Bodies
- Copper Free Aluminum
- Corrosion Resistant Paint
- Class 1, Div. 1 & 2, Groups C & D
- Class II, Div. 1
- Groups E, F & G
- Class III
- NEMA 7 - Groups C & D,
- NEMA 9 - Groups E, F & G

Seal Tight Fittings
Required for explosion proof applications. When sealed with mineral wool and cement prevents the passage of gas throughout the explosion proof wiring system. Fittings should be installed within 6" of a device that produces sparks, arcs or high temperature.

Features:
- Die Cast Aluminum Bodies
- Copper Free Aluminum
- Corrosion Resistant Paint
- Class 1, Div. 1 & 2 - Groups A, B, C & D
- Class II, Div. 1 & 2 - Groups E, F & G
- Class III, Division 1 & 2
- NEMA 3, 4, 7 & 9

Sealtight fittings come in a variety of conduit size types. From 1/2" to 2" TPI
# Ordering Information

## 1 Hub - Outlet Box

**MODELS AVAILABLE**
- GRE-0447 1/2" Hub Size
- GRE-0448 3/4" Hub Size
- GRE-0582 1" Hub Size
- GRE-0587 1-1/4" Hub Size
- GRE-0598 1-1/2" Hub Size
- GRE-0603 2" Hub Size

## 2 Hub - Outlet Box

**MODELS AVAILABLE**
- GRE-0443 1/2" Hub Size
- GRE-0444 3/4" Hub Size
- GRE-0556 1" Hub Size
- GRE-0589 1-1/4" Hub Size
- GRE-0561 1-1/2" Hub Size
- GRE-0580 2" Hub Size

## 2 Hub - Outlet Box

**MODELS AVAILABLE**
- GRC-0439 1/2" Hub Size
- GRC-0440 3/4" Hub Size
- GRC-0546 1" Hub Size
- GRC-0591 1-1/4" Hub Size
- GRC-0558 1-1/2" Hub Size
- GRC-0576 2" Hub Size

## 3 Hub - Outlet Box

**MODELS AVAILABLE**
- GRT-0441 1/2" Hub Size
- GRT-0442 3/4" Hub Size
- GRT-0547 1" Hub Size
- GRT-0593 1-1/4" Hub Size
- GRT-0559 1-1/2" Hub Size
- GRT-0578 2" Hub Size

## 4 Hub - Outlet Box

**MODELS AVAILABLE**
- GRX-0449 1/2" Hub Size
- GRX-0450 3/4" Hub Size
- GRX-0585 1" Hub Size
- GRX-0595 1-1/4" Hub Size
- GRX-0601 1-1/2" Hub Size
- GRX-0606 2" Hub Size

## 2 Hub - Outlet Box

**MODELS AVAILABLE**
- GRB-0445 1/2" Hub Size
- GRB-0446 3/4" Hub Size
- GRB-0584 1" Hub Size
- GRB-0597 1-1/4" Hub Size
- GRB-0600 1-1/2" Hub Size
- GRB-0605 2" Hub Size

### XP Sealing Fittings

**MODELS AVAILABLE**
- EYS-0452 1/2” NPT-Female to Female
- EYS-0452-N 1/2” NPT-Female to Male
- EYS-0453 3/4” NPT-Female to Female
- EYS-0453-N 3/4” NPT-Female to Male
- EYS-0550 1” NPT-Female to Female
- EYS-0550-N 1” NPT-Female to Male
- EYS-2633 1-1/4” NPT-Female to Fem.
- EYS-2633-N 1-1/4” NPT-Female to Male
- EYS-2634 1-1/2” NPT-Female to Fem.
- EYS-2634-N 1-1/2” NPT-Female to Male
- EYS-2635 2” NPT-Female to Female
- EYS-2635-N 2” NPT-Female to Male
- CE-2571 2 Pound Can of Sealing Cement and Wool

### XP Conduit Unions

**MODELS AVAILABLE**
- TU-2992 1/2” NPT-Female to Female
- TU-2993 3/4” NPT-Female to Female
- TU-2994 1” NPT-Female to Female
- TU-2995 1-1/4” NPT-Female to Fem.
- TU-2996 1-1/2” NPT-Female to Fem.
- TU-2997 2” NPT-Female to Female
- TU-2992-N 1/2” NPT-Female to Male
- TU-2993-N 3/4” NPT-Female to Male
- TU-2994-N 1” NPT-Female to Male
- TU-2995-N 1-1/4” NPT-Female to Male
- TU-2996-N 1-1/2” NPT-Female to Male
- TU-2997-N 2” NPT-Female to Male