



**CROUSE-HINDS**  
SERIES

**B-LINE**  
SERIES

# Engineered solutions for water and waste water treatment plants



*Powering Business Worldwide*



Improving safety, energy efficiency and system uptime for water and wastewater facilities

# Product solutions

## engineered for water treatment



### LED lighting

Maintenance-free and energy-efficient

The broadest portfolio of LED luminaires for any industrial or hazardous application.

Delivering superior illumination, reliability and safety in the most demanding environments



### Plugs & receptacles

Simple and secure powering solutions

Extensive configurations, custom capabilities and numerous interlocked designs provide safe and reliable solutions for fixed and portable power applications in industrial and hazardous environments.



### Conduit & cable fittings

Rugged connectors for extreme conditions

Time-tested, innovative conduit fittings, cord connectors and cable glands move power where you need it simply and safely in any electrical installation.



### Motor control & power distribution

Flexible and modular solutions

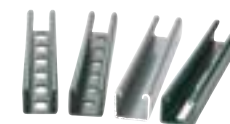
Innovative, intelligent NEC and IEC solutions safely and efficiently control power and protect circuits in explosive, wet and corrosive environments worldwide.



### Enclosures

Performance and reliability

Available in a comprehensive range of sizes, each with various configurations for a multitude of applications.



### Support systems

Reliable, safe supports

Multiple B-Line series safety grating solutions along with pipe hangers and strut to help support non-structural systems.



### Cable management

Robust, corrosion resistant cable tray

Stainless steel and fiberglass tray to manage, support and organize cables



### Specification support

Reducing partner effort

Specification support tools that simplify, streamline and speed up the industrial design and specification process.



# Safe. Reliable. Efficient.

**Eaton understands that your facility needs to be operating continuously, safely and cost effectively.**

That's why Eaton offers products and services to support your plant to help strengthen up-time, keep people and equipment safe while helping improve energy efficiency.

Our trusted, reliable brands include Crouse-Hinds series solutions for harsh and hazardous area locations and B-Line series support system solutions.

With over 100 years of proven experience in the water and wastewater marketing, we have helped municipalities maintain operations, use power efficiently while help improve safety.

For additional information, visit [Eaton.com](http://Eaton.com).

**Class I, Div. 1 & 2/  
Zone 1 & 2**  
Explosion protection for areas where flammable gases or vapors may normally be present



**Industrial**  
Areas prone to dust, dirt, grime, vibration, hard use and abuse



**Wet locations**  
Protection from rain, splashing, hose directed water and external formation of ice



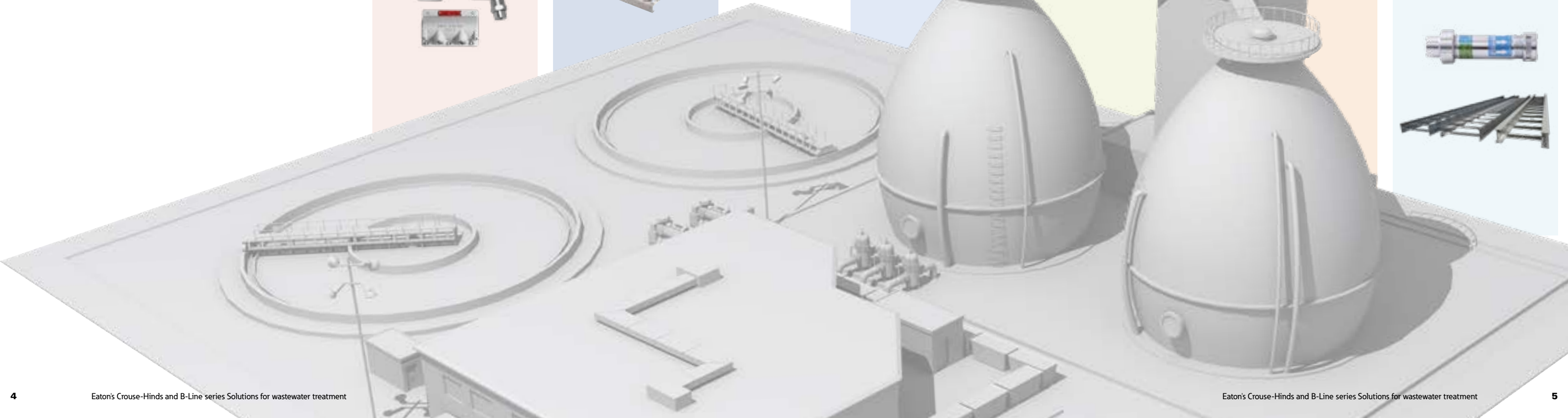
**Space constraints**  
Areas with low ceilings, tight spaces and limited footprint potential



**Corrosive areas**  
Protection for areas with corrosive chemicals, atmospheres and water



**Vibration**  
Locations with high vibration/continuous movement from motors and other machinery





# Hazardous area LED lighting

## Hazard-Gard XPLA linear LED luminaires

### Overview

Hazard-Gard™ XPLA explosionproof linear LEDs are specifically designed to replace fluorescent T12, T8 and T5HO lighting in Class I, Division 1 and Class II, Division 1 areas. The rugged and durable design features the industry's most versatile and flexible mounting options. The XPL is the ideal lighting solution for hazardous, high vibration, impact and hose down applications.

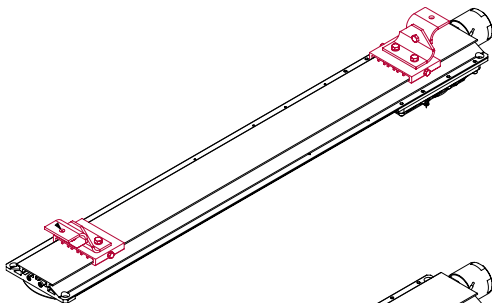
### Certifications

- Class I, Division 1, Groups C, D
- Class II, Division 1, Groups E, F, G
- Class III
- UL844; UL1598; UL1598A
- CSA C22.2 No. 137
- NEMA 4X, IP66, marine and wet locations, paint spray rated
- DesignLights Consortium® approved for select models\*

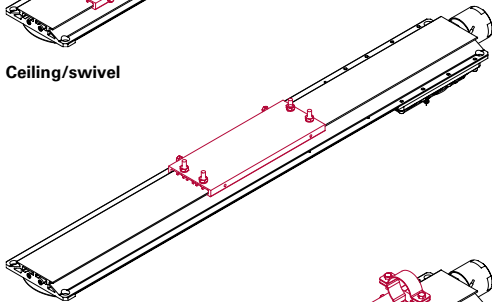
### Benefits

- Industry-leading efficacy: up to 120 LPW
- 5000K CCT, 72 CRI
- -25°C to +55°C ambient operating temperature
- Low profile fixture (<5" height)
- Flush and swivel mount options
- Wide optics for uniform illumination
- Four points of secondary retention and loop feed wiring
- 2,000 psi high pressure hose rated
- 5G 3-axis vibration
- 2kV surge protection
- 5 year fixture warranty

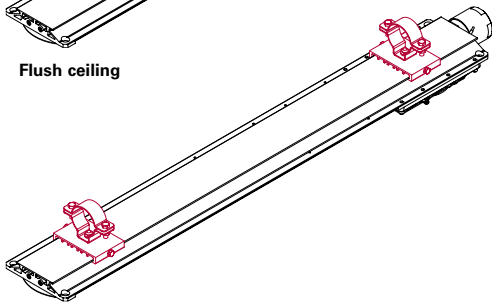
Model number	Equivalent fluorescent luminaire	Typical energy savings/lifetime
XPLA2	2 x 2 ft. T5/T8/T12HO	Up to 53% reduction in energy costs and 60,000 hours of continuous operation!
XPLA4	2 x 4 ft. T5/T8/T12HO	



Ceiling/swivel



Flush ceiling



Pole mount



XPL2



XPL4



## Champ FMVA floodlights



### Overview

Class I, Division 2 Champ™ FMV floodlights are hazardous location rated and are designed to provide full-spectrum, crisp, white light.

Nine versions of the FMV LED are available for pole and wall mounting, providing ideal solutions for a wide range of hazardous area applications.

## Champ MLLA linear LED luminaires



### Overview

Class I, Division 2 Champ MLLA linear LED luminaires are specifically designed to replace fluorescent T12, T8 and T5HO lighting. The rugged and durable design features the industry's most versatile and flexible mounting options. The MLLA is the ideal solution for high vibration, impact and hose down areas and applications.

## Vaporgard LED luminaires



### Overview

Class I, Division 2 Vaporgard™ LED luminaires provide uniform crisp, white light and are suitable for lower mounting heights, confined spaces or utility rooms.

Using four high brightness LED arrays, this fixture can deliver similar light levels to 150 watt incandescent lamps.

## Champ-Pak CPMV LED wall pack



### Overview

Eaton's Champ-Pak® CPMV LED wall packs are engineered to provide maintenance-free illumination, long life and high performance in Class I, Division 2 areas.

The Champ CPMV LED is available from 3,000 to 7,000 lumens and is designed for extreme conditions and hazardous applications.

## Champ VMVL LED luminaires



### Overview

Class I, Division 2 Champ VMVL luminaires are designed to provide full-spectrum, crisp, white light with custom Type I, III and V distribution.

Nine versions of the VMVL are available, providing ideal solutions for a wide range of applications.

VMVL emergency lighting with integral battery backup now available. The built-in back-up power provides 90 min. of emergency lighting to help keep people safe and plants running smoothly.

## Hazard-Gard EVLLA LED luminaires



### Overview

The Class I, Division 1 Hazard-Gard EVLLA LED product offering provides the same durability and reliability of a traditional HID fixture, coupled with the low cost of ownership and energy efficiency of Eaton's LED technology. High performance LEDs and a solid-state electronic driver provide light where you need it, at a fraction of the operating costs of HID lighting technologies.

## EV LED luminaires



### Overview

The Class I, Division 1 EV LED is built to perform effectively and economically in areas that may be difficult to service, expensive to shut down or any location requiring an increased degree of safety. Compared with conventional lighting, the EV LED consumes up to 85% less energy and typically lasts as long as 50,000 hours or more.

## Uplight refractors for VMVL LED, PVML LED and PVMA LED



### Overview

Champ LED luminaires are now available with an uplight refractor which maximizes light dispersion. The new refractor is perfect for low bay ceilings, suspended pendant mounts, areas with elevated infrastructure or areas which require dispersed side and uplight illumination.

\* Refer to [www.designlights.org](http://www.designlights.org) Qualified Products List under Family Models for full listing details. Not all models are approved for all application categories.





# Heavy industrial LED lighting

## Champ Pro PFM LED floodlights

### Overview

Champ Pro PFM floodlights are designed to provide full-spectrum, crisp, white light. Nine versions of the Champ PFM LED are available for pole and wall mounting, providing ideal solutions for a wide range of applications.

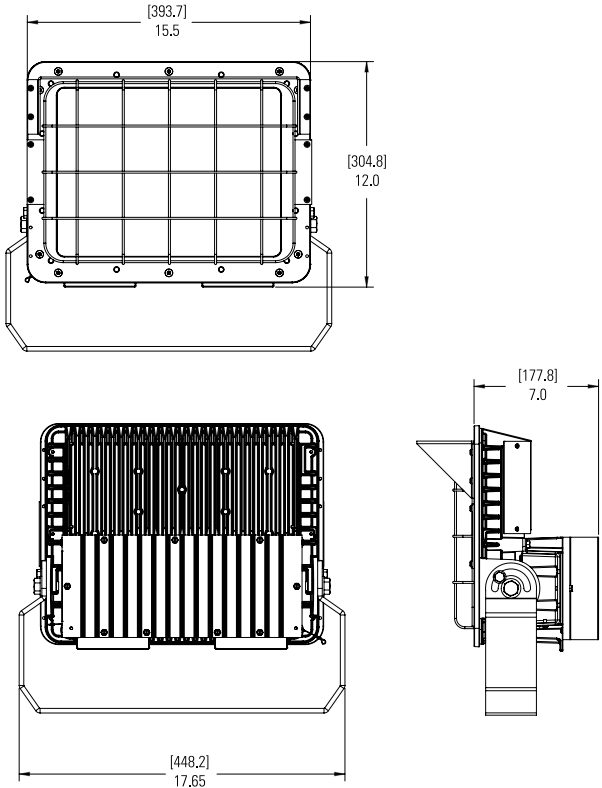
### Certifications

- UL1598; UL1598A; UL875
- cUL
- Type 4X
- IP66
- DesignLights Consortium® approved for select models\*
- UL approved up to 65°C ambient (3L-15L)
- cUL Listed to CSA Standard CSA C22.2 No. 250
- IEC Standards: IEC 60598; CE

### Benefits

- Versatile design - Can be used for outdoor or indoor applications, and for a wide range of mounting heights depending on model and light level requirement
- Rugged heat sink - Designed to perform in high ambient temperatures up to +65°C and as low as -40°C
- High lumen output - Up to 117 lumens per watt
- Full-frame yoke - Designed to utilize the SFA6 slipfitter and SWB6 wall mount bracket, making it ideal for retrofit or new installations
- Multiple lens options - Tempered and clear glass standard, polycarbonate and diffused glass options available
- Smaller and lighter - 25% smaller and 10 lbs. (4.5 kg) lighter than previous model (3L-15L models).

### Dimensions (3L-15L models)



\* Refer to [www.designlights.org](http://www.designlights.org) Qualified Products List under Family Models for full listing details. Not all models are approved for all application categories.

Model number	Equivalent HID luminaire	Typical energy savings/lifetime
PFML-3	70W	Up to 72% reduction in energy costs and 60,000 hours of continuous operation!
PFML-5	100W-150W	
PFML-7	150W-175W	
PFML-9	175W-250W	
PFML-11	250W-400W	
PFML-13	400W	
PFM15L	400W-500W	
PFM25L	600W-750W	
PFM50L	1,500W	



PFM3L – 15L

## Industrial high bay LED luminaires



### Overview

IHB LED luminaires are the perfect replacement for 250W-1,500W HID and 4-10 lamp T5HO fluorescent high bay fixtures. Designed for locations requiring continuous and consistent light levels, requiring frequent on-and-off of lights and that are difficult to relamp or that cause production to be stopped during the lamp maintenance process.

## Champ PLLA linear LED luminaires



### Overview

Champ PLL linear LED luminaires are specifically designed to replace fluorescent T12, T8 and T5HO lighting. The rugged and durable design features the industry's most versatile and flexible mounting options. The PLL is the ideal solution for high vibration, impact and hose down areas and applications.

## Champ-Pak WPMV LED wall pack



Eaton's Crouse-Hinds Champ-Pak® WPMV LED wall packs are engineered to provide maintenance-free illumination, long life and high performance in extreme conditions.

The Champ WPMV LED is available from 3,000 to 7,000 lumens and is designed for harsh and heavy industrial applications.

## Champ Pro PVML LED luminaires



### Overview

Champ Pro PVML LED luminaires are designed to provide full-spectrum, crisp, white light with custom Type I, III and V distribution.

Nine versions of the PVML are available, providing ideal solutions for a wide range of applications.

PVML emergency lighting with integral battery backup now available. The built-in back-up power provides 90 min. of emergency lighting to help keep people safe and plants running smoothly.

## Vaporgard Pro LED luminaires



### Overview

Vaporgard LED luminaires provide uniform crisp, white light and are suitable for lower mounting heights, confined spaces or utility rooms.

Using four high brightness LED arrays, this fixture can deliver similar light levels to 150 watt incandescent lamps.

## Champ Pro PVMA LED luminaires



Champ Pro PVMA LED luminaires are engineered to provide maintenance-free illumination in the most demanding environments.

The rugged PVMA LED has a smaller footprint, an industry leading light-weight design, and is a highly efficient solution for a variety of heavy industrial applications.







# Plugs & receptacles

## PowerMate pin and sleeve connectors

### Overview

PowerMate™ plugs and receptacles are used to quickly and efficiently connect power to lighting circuits, motors and pumps in harsh operating environments.

Available in 30, 60, 100, 150 and 200 amp models.

### Certifications

- UL Standards: UL1682, UL1686, NEMA 250
- CSA Standard: C22.2 No. 182.1
- Listed for use with Type P cable, flexible cord and cables rated for extra hard usage
- NEMA 4X

### Benefits

- Lockout plug guarantees isolated power supply with OSHA compliant lockout/tagout
- Fixed safety insulator prevents electrical shocks and shorts
- 8-point diamond cable clamps provide eight points of contact for increased grip and even pressure distribution
- Split pin contact design provides nearly 360° of contact at every insertion
- Mates with Crouse-Hinds Arktite®, Appleton® Powertite and Killark® Versamate



## IEC 60309 plugs, connectors, receptacles and inlets



### Overview

IEC 60309 pin and sleeve devices are the industry's first to offer IP69K rated protection. Each device has been carefully engineered to offer reliability, efficiency and added safety protection in demanding wet locations, particularly where harsh wash downs are a must.

## Arktite 30A-100A non-metallic plugs, receptacles and connectors



### Overview

Arktite™ circuit breaking plugs, receptacles, cord connectors and motor plugs are used to supply power to portable electrical devices such as welders, motors, pumps, conveyors and other similar equipment where electrical loads must be quickly disconnected from power sources.

## Ark-Gard NEMA configured plugs & receptacles



### Overview

Ark-Gard™ plugs and receptacles make it safe and easy to bring power wherever it is needed. They provide versatility for connecting portable devices in both hazardous and non-hazardous locations. Perfect for applications which require additional environmental protection, or in NEMA 4 hose down environments where wash down/hose downs occur.

## Arktite interlocked receptacles with enclosed disconnect switches



### Overview

Arktite supplies power to portable or fixed electrical equipment such as welders, compressors, conveyors, portable tools, lighting systems and similar equipment.

The interlocked receptacle prevents engagement and disengagement of the plug under load, providing safe, portable connections and extended product life.

Fusible or non-fusible versions available in 30, 60 and 100 amp configurations.

## Posi-Max power distribution panels



### Overview

Posi-Max power distribution panels provide a quick and safe method of connection to portable generators. The unique Posi-Max design allows for quick and safe restoration of essential power services.

The Posi-Max Series is available in 200A to 1200A and the enclosure can be customized to meet specific environmental and configuration needs.

The heart of the system is the field-proven Posi-Lok power distribution system designed to meet Articles 520.53(K) and 530.22(A) of the NEC®. The sequential port interlock requires the user to connect and disconnect each plug in the proper sequence, ensuring ground connection. This single pole system allows for easy connection in any situation.

## Posi-Lok power distribution panels



### Overview

Quick and efficient standby and emergency power

Posi-Lok™ distribution panels use lightweight, single conductor cables to provide the means for hurried personnel to quickly and safely connect and disconnect power systems without having to use any tools.

Now there's no need to haul around huge, multi-conductor cables. Posi-Lok power distribution systems let you use lighter, single conductor cables rated at higher amperages.

Posi-Lok plugs feature recessed electrical contacts that are protected by shatter-resistant insulators and impact-resistant molded sleeves.

The unique elastomeric tapered insulator allows maximum flexing with minimum breakage. There are no metal clamps or grommets to cause cable failure.

## Roughneck multi-pin and single pole connectors



### Overview

#### Roughneck® multi-pin connectors

Heavy duty control and instrumentation multi-pin connectors for hazardous and harsh industrial use.

#### Single pole connectors

Secure, single pole power, rated to 1135A for use in hazardous and normal locations.







# Industrial/commercial fittings and glands

## V-Spring telescoping safety light pole

### Overview

The V-Spring™ telescoping safety light pole increases safety and decreases labor costs associated with lighting installation and routine maintenance. Its innovative design allows for all work to safely take place on the platform or walkway, eliminating the need for portable ladders and fall protection equipment. Applications include:

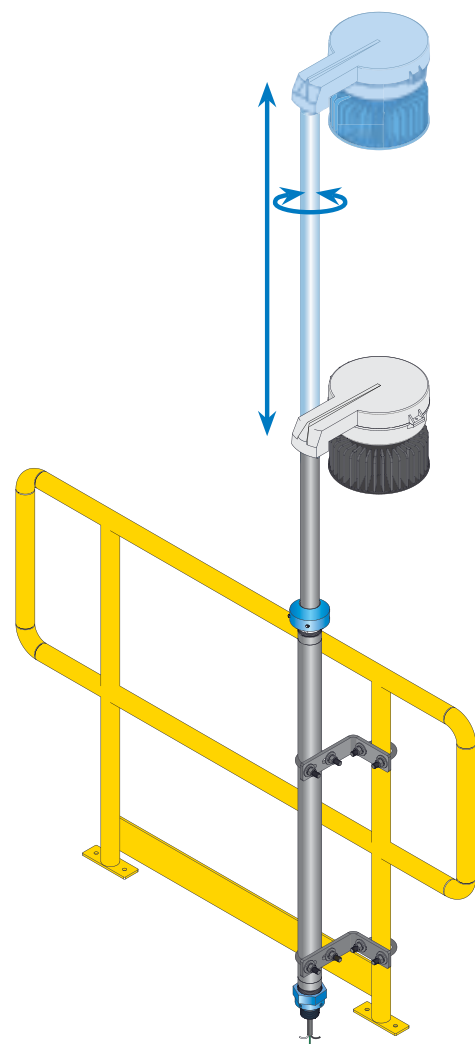
- Luminaires installed on industrial walkways, platforms, stairways and conveyors where OSHA/HSE regulations require fall prevention equipment
- Hard to reach or dangerous areas where safety is a big concern
- Hazardous and harsh environments subject to corrosive agents, vibration and extreme temperatures

### Certifications

- NEC/CEC: cULus Listed for Class I, Division 2 and Class II, Division 2 hazardous areas when used with Champ® luminaires; UL 1598; CSA C22.2 No. 250.0-08
- Environmental ratings: dusttight; NEMA 4; IP66
- Vibration: DNV No. 2.4: 2006; IEC 60068-2-6: 2007

### Benefits

- Spring assist - Provides true controlled lowering; less force required to raise or lower luminaire – no strain on worker; eliminates the need for portable ladders and fall prevention equipment
- Easy fixture orientation - Adjustable 360° pole rotation allows for effortless positioning of light
- Simple vertical travel - Easily extend to any raised height – one product covers multiple mounting heights;
- Simple operation - Innovative design eliminates consideration of surrounding obstructions; easily adjust fixture position from ground or walkway
- Designed for harsh environments - No lubricants or maintenance required; suitable for dusttight applications; optional harsh environment cover eliminates moisture and airborne contaminants
- Fully assembled and wired - Factory assembled wired and sealed for maximum environmental protection



## Condulet conduit bodies, boxes, covers and gaskets



### Overview

Condulet™ boxes are installed in conduit systems to: accommodate wiring devices, act as pull boxes, provide openings to make 90° bends, provide for splices, taps, mounting outlets and provide access to conductors for maintenance and future system changes.

## Explosionproof conduit sealing fittings



### Overview

EY and EZ explosionproof conduit sealing fittings are installed in conduit runs to prevent the passage of gases, vapors or flames from one portion of the electrical installation to another through the conduit, limiting any explosion to the enclosure and preventing pre-compression or "pressure piling."

Available with or without drains.

## Liquidtight fittings



### Overview

Liquidtight fittings are used to terminate and seal liquidtight flexible metal conduit to an oiltight, raintight or liquidtight box or enclosure, where superior corrosion resistance and/or strength is required.

Available in aluminum, stainless steel, iron, zinc die cast and non-metallic.

## Myers hubs



### Overview

Myers™ hubs are used in the termination of electrical circuits through wall of the enclosure. Designed for use indoors or outdoors with rigid conduit and IMC. Suitable for use in environmentally demanding applications, including those with the presence of chemicals, such as acetic, citric and salt water. Also available for use in hazardous (classified) locations.

## Terminator II TMCX armoured barrier & non-armoured barrier glands



### Overview

The Terminator™ II TMCX cable gland is an armoured barrier, non-armoured barrier and TECK armoured gland used to terminate cable in hazardous locations. Its unique design features, coupled with our new fast curing Chico® LiquidSeal compound, make the Terminator II TMCX the easiest and safest solution available.

## Chico SpeedSeal compound



### Overview

Designed to separate and form an explosionproof seal around each electrical conductor in Eaton's Crouse-Hinds series EYS and EYD sealing fittings. Chico™ SpeedSeal™ restricts the passage of gases, vapors or flames through the sealing fitting and creates a seal for Class I, Division 1, Groups C, D and Class II, Division 1, Groups E, F, G hazardous areas.

## Stainless steel fittings



### Overview

Stainless steel fittings deliver unbeatable corrosion protection where you need it, saving you time and money. Superior resistance to corrosion and heat, combined with unmatched strength, make stainless steel fittings a long-term solution for even the most extreme environments.

## XJG conduit expansion joints for rigid/IMC



### Overview

XJG expansion couplings are used with rigid metal conduit and IMC to couple together two sections of conduit subject to longitudinal movement; in conduit runs to prevent damage to conduit supports. Also used indoors or outdoors in long conduit runs to permit linear movement caused by thermal expansion and contraction and in runs that cross structural joints.





# Motor control and power distribution

## Clamped EBMX NEMA 7 classified enclosures

- Overview**

The world's only NEMA 7 classified enclosure to utilize clamping technology.

**Certifications**

  - Class I, Divisions 1 and 2, Groups B, C, D
  - Class II, Groups E, F, G
  - Class III
  - Class I, Zones 1 and 2
  - UL1203 Explosionproof and Dust-ignition-proof Electrical Equipment for Use in Hazardous (Classified) Locations
  - cUL to CSA C22.2 No. 30
  - UL/cUL certified for -50°C to +60°C
  - SASO Certificate of Conformity
  - NEMA 3R, 4, 4X\*, 7BCD, 9EFG
- Benefits**

  - **FASTER.** A significant reduction in installation and maintenance costs due to its revolutionary design makes opening and closing the EBMX significantly faster than traditional enclosures.
  - **SAFER.** The clamps on the EBMX enclosure automatically apply even pressure across the flame path for an error-proof installation. No need to worry about missing or improperly torqued bolts creating an explosion hazard in your facility.
  - The EBMX enclosure is rated Class I, Divisions 1 and 2, and has a NEMA 4 rating to protect against water ingress.

\* Enclosures with PB23, RR2 and RR3 options are rated NEMA 3R. All other options maintain NEMA 4X rating.

### The only clamped solution

- Save time and money**

  - Simple clamp cover design opens in seconds
  - Reduces installation and maintenance costs
- Error-proof installation**

  - All surface clamps apply even pressure across the flame path
  - No chance of missing bolts
- Multi-use and highly customizable**

  - Designed for use as starter, combo starter, disconnect switch or breaker
  - 65kAIC at 480V certified enclosure rating
  - Up to 6 cover operators
  - Factory wired
  - Thermal magnetic and electronic trip breakers
  - Bi-metallic and electronic overload starters
- Patented safety**

  - 11 patents associated with all-clamp technology



### EMN 25 and 27 pushbutton motor starters



**Overview**

Explosionproof, compact, across-the-line manual NEMA starter for single and polyphase VAC or VDC motors. Used for fans and blowers, pumps, compressors and conveyors.

### STE main breakers



**Overview**

Class I, Division 2 STE main breakers utilize an encapsulated breaker in a NEMA 4X stainless steel enclosure for easy access, increased safety and decreased maintenance costs. The STE simplifies maintenance efforts thanks to a lightweight design and reduced footprint.

### Disconnect switches



**Overview**

Hazardous area and ordinary location disconnect switches are used in manual "ON" and "OFF" control of single-phase or three-phase AC motors where overload protection is not required or is provided separately.

### XDT hazardous area transformers



**Overview**

XDT hazardous location dry-type transformers are designed to operate where volatile flammable liquids or gases are handled, processed or used, and where ignitable concentrations of gases or vapors are normally prevented by positive mechanical ventilation.

### Control stations



**Overview**

N2S and GHG43 control stations and selector switches are used for motor control, visual indication, on-off control of circuits and circuit selection.

### SynergEX EZFlex panelboards



**Overview**

One of the biggest challenges with enclosures located in hazardous areas is accessibility, or missing bolts. The SynergEX EZFlex™ panelboard utilizes individually encapsulated circuit breakers to reduce downtime, increase safety, and lower maintenance costs in hazardous locations.

### EID explosionproof disconnect switches



**Overview**

EID disconnect assemblies provide an explosionproof disconnect switch assembly with small size and footprint for hazardous area electrical systems.

EIDs can be ordered as enclosure only, allowing for field installation of switch while maintaining product certification. NEMA 4X breather and drain provides a moisture control solution in hosedown applications.





# Enclosures

## NEMA 4X enclosures



### Overview

Broad offering of JIC, wall mount, ground mount and free-standing enclosures with superior ingress protection. Protect against corrosion, circulating and windblown dust, falling dirt, dripping non-corrosive liquids, rain, splashing water and hose-directed water.

## Ex-CELL stainless steel or sheet steel enclosures



### Overview

A globally certified enclosure and termination solution for Type 3S and 4X applications. Over 100 standard sizes in stainless steel and painted steel, featuring unique design features, precision manufacturing and the highest quality materials. The premier choice for instrumentation and electrical applications across the globe.

## Non-metallic enclosures for non-hazardous applications (NEMA 1, 3, 3R, 4X, 6P, 12)



### Overview

Made of fiberglass-reinforced polyester, non-metallic enclosures are exceptionally durable, corrosion-resistant and can withstand abuse and exposure to chemicals, water and extreme conditions. Extensive offering of fiberglass enclosures, including: small line, pushbutton, junction box, raised cover, Advantage, wall mount, disconnect and Xtra deep.

## NEMA 7 enclosures



### Overview

Explosionproof enclosures are used as a junction or pull box, enclosure for splices and branch circuit taps, terminal blocks, relays and other electrical devices. Enclosures are certified for use in areas which are hazardous due to the presence of hydrogen or gases and vapors of equivalent hazard, such as those found in process industries.

# Cable management

## Cable tray and accessories



### Overview

As the industry leader in cable tray, Eaton offers one of the widest ranges of B-Line series cable management solutions available in the market today. We offer a variety of tray styles, fittings and accessories available to manage and organize cable pathways. Stainless steel and fiberglass tray options provide increased corrosion resistance. Plus, the stainless steel cable tray features patented I-beam side rails that carries up to 2.3 times more load than c-channel.

# Support systems

## Strut systems



### Overview

Eaton's B-Line series strut system is designed to support non-structural systems, such as cable tray, HVAC systems, pipe and conduit. It is also ideal for racking system, panel stands, machine guards and ceiling grids.

- Channel available in in solid, slotted hole, and long slotted hole
- Features full line of fittings, clamps, hardware and accessories
- Available in various finishes and materials for a variety of environments
- Many items

## Safety grating solutions



### Overview

Contractor and industry surveys reveal accidents caused by falls are high on the list of disabling and lost-time injuries and even death. In fact, statistics from many states rate this type of accident are second as the cause for industry's loss of man-hours and lower productivity. Eaton's B-Line series safety grating product offering provides superior structural walkways with increased safety and slip-resistance for rugged outdoor and indoor environments.

## Pipe hangers



### Overview

Eaton offers a full line of B-Line series pipe hangers, clevis hangers, beam clamps and other mechanical supports in a variety of materials and finishes.

### Applications

Pipe hangers are designed to support insulated or non-insulated pipe allowing for vertical adjustment and limited movement in the piping system. Beam clamps are designed to provide attachment of hanger rods to structural members without drilling or welding.

## B3100 Slide-Rite Clevis Hanger

### Overview

- Slide-Rite™ hanger features 15° swing in either direction allows pipe to easily feed through
- Engineered design aligns bolt holes for quicker overhead installation



# CoSPEC

## Online specification tools



**SELECT**—Pick products you need to download to the unit level.



**VIEW**—View your chosen product in 2D or 3D.



**DOWNLOAD**—Output drawing and parametric data for use on your project.

CoSPEC specification tool makes it simple to view, select and download drawings and specifications in over 100 formats.

The tool includes both Crouse-Hinds series and B-Line series solutions to simplify your design and specification process.

### 3D drawing & design

The CoSpec online 3D drawing catalog gives you the ability to select and view Crouse-Hinds and B-Line series and B-Line series products in 2D and 3D formats. Then, with just a few clicks, you can download design content and parametric data in one of nearly 100 file formats. File format outputs are native to the selected software, which eliminates translation errors and speeds the integration of content into your project.

Combine this handy tool with our SKU-level submittal sheets for extra convenience.



### SKU-level submittal sheets

These dynamic PDFs feature both SKU-level specification data and key family specs. The sheets also include a custom text area for unique data such as project name or fixture type, as well as an embedded 3D drawing.

## Convenient resources for engineers, designers and drafters

### Lighting layouts

From simple layouts to complex drawings, our lighting design engineers deliver precise, efficient, application- and environment-appropriate lighting designs. Our experts can save you time and money by creating a virtual model of a proposed design, revealing luminaire characteristics and effects within the installation.

- 3D fixture placement with access to alternate fixtures and mounting heights
- Point-by-point footcandle diagram calculations
- AutoCAD®-generated floor plan overlays
- Complete bill of material



Energy Savings & Maintenance Savings			Total Cost of Ownership Comparison	
Total Cost of Ownership			Total Savings	
	100W MH	LED System	LED System	
Initial Investment	\$80,000.00	\$150,000.00	Energy savings	\$1,343,820.00
Utility rebate	\$0.00	(\$0.00)	Labor & material savings	\$545,818.18
Tax rebate	\$0.00	(\$0.00)	Total savings	\$1,889,638.18
Net Investment	\$80,000.00	\$150,000.00	Initial Investment	(\$150,000.00)
Total energy costs	\$1,552,040.00	\$608,120.00	Estimated Utility Rebate	\$0.00
Incremental Air Conditioning Energy Costs	\$0.00	\$0.00	Estimated Tax Rebate	\$0.00
Total labor costs	\$545,818.18	\$0.00	Total return	\$1,743,358.18
Total cost of ownership	\$1,552,040.00	\$150,120.00		
Payback Period on the Incremental LED Cost (years): 0.5				
Payback period on the entire LED installation (years): 1.0				

### ROI calculators

Multiple interactive online calculators to determine your potential savings. These handy, intuitive calculators allow you to enter design parameters unique to a project and view the specific savings and payback period realized.



### Specification guide forms

Written to CSI guidelines, our specification guide forms are ideal for designers whose customers have out-of-date or incomplete spec libraries. They're a quick and easy way to optimize the safety, reliability and efficiency of your design requirements.





**U.S. (global headquarters):  
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