

PrimeLine ¹ for Zone 1, 2 & 21, 22

An ATEX/IECEx compliant, cost-effective alternative to premium global brands



² OptiLine for Zone 2 & 21, 22

Tested by an independent laboratory,
fully certified (ATEX / IECEx)



PrimeLine Emergency version with robust battery for sub-zero temperatures

- ▶ PrimeLine is one of the few battery-powered emergency luminaires designed for reliable operation (1.5 h / 3 h) at low ambient temperatures. Its optimized battery technology (NiCd, 4000 mAh) supports both **continuous operation** and **effective charging at -20°C**.



PrimeLine Isolator switch for increased safety

- ▶ An **integrated isolator switch** automatically disconnects the power supply when the diffuser is opened. This enhances operational safety and facilitates safe maintenance and testing.

Ex luminaires

High-performance LED lighting fittings
for hazardous areas

3 possible applications: general lighting, emergency lighting and Cental Battery System. 100% compatible with EATON CBS. Designed with installation and maintenance ergonomics in mind: quick opening, no loose parts, hinged diffuser and gear tray.

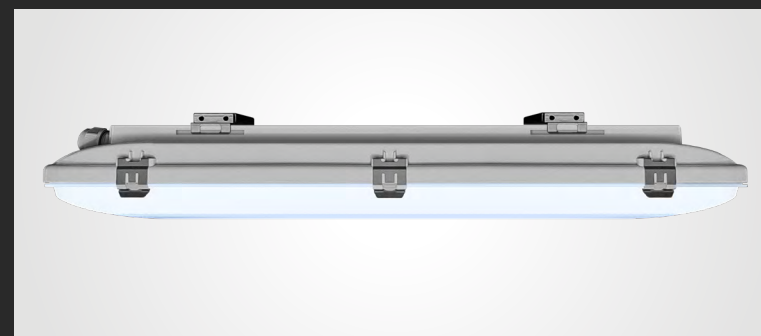


PrimeLine & OptiLine Built for extreme conditions

TechLine

▶ High-performance industrial LED lighting for demanding applications

With its rugged construction and high ingress protection rating, TechLine is engineered for reliable performance in areas exposed to dust, moisture or chemicals. The luminaire offers outstanding lighting performance – up to 160 lm/W and high-quality light (CRI > 80), with luminous flux ranging from 2600 to over 10,400 lm. TechLine comes in three sizes, a high-bay version (7.5 – 12 m), DALI control, motion sensor, daylight harvesting, and optional PoE.



- ▶ **Luminous efficacy** – up to 181 lm/W (OL) & 135 lm/W (PL); light output up to 10342 lm (OL) & 8300 lm (PL)

- ▶ **Operating temperature** – -40 °C up to +50 °C (standard versions)

- ▶ **Color temperature** – 4000 K (standard), optional: 4500 K, 5000K or 6500K

- ▶ **IP67 protection** – poured silicone gasket and stainless steel locking clips ensure long-lasting protection against dust and water ingress

- ▶ **Durability** – UV-stabilized reinforced polycarbonate diffuser and GRP housing offer high mechanical and chemical resistance indoors and outdoors

- ▶ **Compatibility** – 100% fit with EATON's central battery

- ▶ **Versatility**
 - basic/emergency/cental battery system
 - two lengths: 670 mm and 1276 mm
 - three diffusers: transparent/frosted/opal

Engineered-to-Order control panels and terminal boxes

for Zone 1, 2 & 21, 22

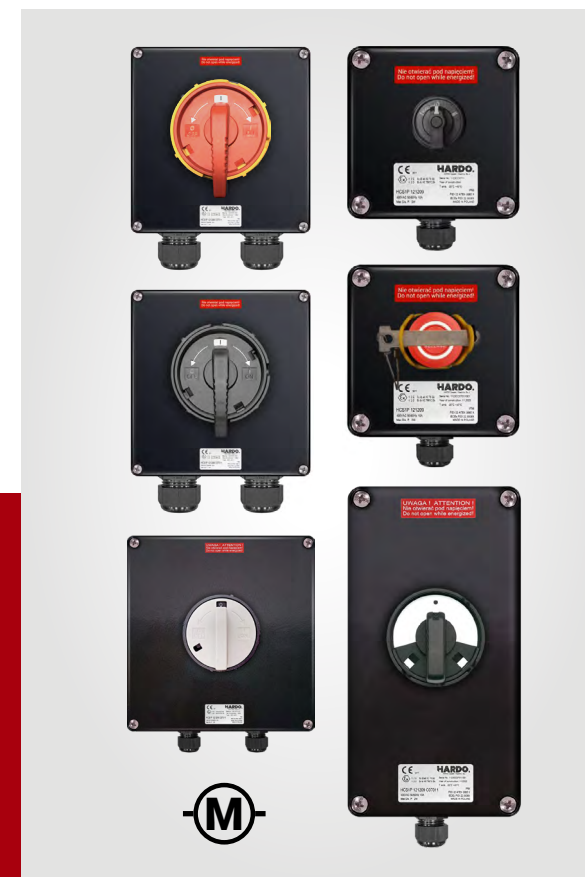
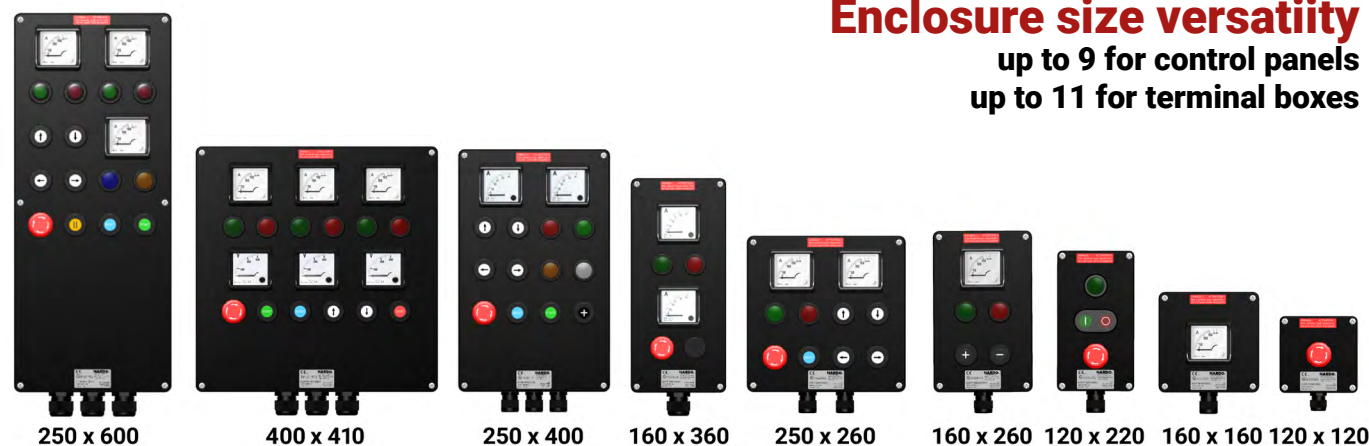


3 high-performance materials: GRP, aluminum, and stainless steel

Design features

- ▶ **Temperature ranges** from -50 °C to +60 °C (up to +95 °C in high-temperature version)
- ▶ **Durable** – AISI 316L screws, silicone gasket, optional hinged cover
- ▶ **High enclosure IP level** – IP65/IP66 for GRP, IP66 for stainless steel and aluminum
- ▶ **Highly customizable** – extensive gland and terminal configurations

Enclosure size versatility up to 9 for control panels up to 11 for terminal boxes



Ex switches

- ▶ Emergency stop switches
- ▶ Control switches (16A, up to 3 positions)
- ▶ Control switches (25A, up to 12 positions)
- ▶ Main, isolation and safety switches (up to 250 A)
- ▶ Motor switches

Design features

Ex switches for Zone 1, 2 & 21, 22

- ▶ **High safety and durability as standard** – IP66-rated enclosures, silver alloy contacts, robust mechanical design, and reliable switching mechanisms ensure safe operation in demanding industrial environments
- ▶ **Flexible, modular configurations** – wide range of current and voltage ratings, multiple contact options (NO/NC, PE, N), and expandability with accessories enable precise matching to application needs
- ▶ **Good value for money** – fully compliant, cost-effective alternative to premium brands without compromising performance



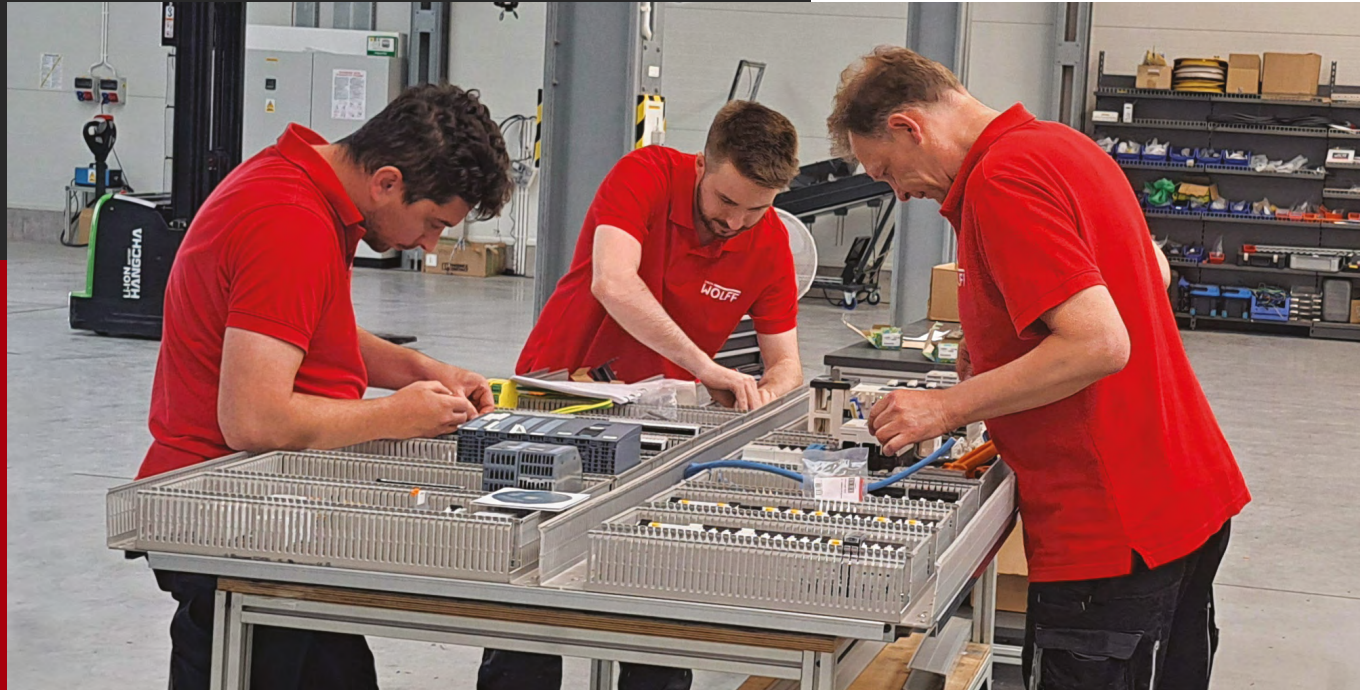
Ex cable glands

- ▶ Steel cable glands for armored and unarmored cables
- ▶ Adapters
- ▶ Reducers
- ▶ Plugs

Design features

Ex glands for Zone 1, 2 & 21, 22

- ▶ **High durability** – made from brass, nickel-plated brass, or 316L stainless steel
- ▶ **Suitable for harsh environments** – wide temperature range: -55°C to +160°C with IP66/IP68 sealing
- ▶ **Versatility** – for unarmoured and armoured cables, with sizes up to M90/3.5"
- ▶ **Flexible installation** – adapters and reducers available in metric & NPT combinations



Providing safety for the industry

HARDO explosion-proof electrical equipment and lighting products are designed by practitioners, for practitioners. Drawing from over 30 years of experience of GRUPA WOLFF, We want to supply to the market a variety of high quality products with the best possible value-to-price ratio.

We are constantly working on expanding our products portfolio in order to meet the widest possible demand from our customers. Our production facility is QAR/QAN/ISO certified.

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HARDO
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Ex sockets and plugs

for Zone 1, 2 & 21, 22

- ▶ Rated current 16A; 2P/3P/4P/5P
- ▶ Rated current 32A; 3P/4P/5P
- ▶ Rated current 63A; 4P/5P
- ▶ Rated current 125A; 4P/5P

Design features

- ▶ **Reliable and cost-effective** alternative to the Eaton GHG 635 series
- ▶ **Color-coded** housing colors enable quick and safe identification of operating voltage
- ▶ **Integrated internal earthing** ensures continuous protection against electric shock
- ▶ **Padlock eye** enables additional protection against unauthorized access or accidental operation
- ▶ **Integrated switch** built in, with auxiliary contact in 125A version



Ex d enclosures

Flameproof housing for gas & dust explosion zones

An Ex d enclosure allows the use of standard industrial components without certifying the entire device as Ex. The equipment layout and component arrangement, including the division into Ex d and Ex e parts, are designed based on real operating conditions and temperature distribution inside the enclosure. We deliver the project end to end, ensuring full compliance with ATEX and IEC 60079.

