

# EXPROTEC



## Company Presentation

April, 2024

## Agenda

- 1 About EXPROTEC
- 2 Product portfolio

**EXPROTEC**





## About EXPROTEC

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**EXPROTEC Sp. z o.o.**  
**ul. Graniczna 26A**  
**43-100 Tychy**  
**Poland**

**Employees: 56**

**Activities:**

- Engineering;
- Manufacturing;
- Sales;
- Service.



**EXPROTEC has developed into an independent and highly profitable provider of electrical solutions for hazardous areas**



**Successful establishment of a position on the Polish mining market**

**1996 - 2007**

- EXPROTEC was founded by the BARTEC Group in 1996 in Tychy as a joint venture "CARBO BARTEC".
- In 2004 transformed into "BARTEC Polska".
- During the first 20 years of its operation, EXPROTEC became a top quality and technologically advanced manufacturer of intrinsically safe equipment, electrical, and power electronic systems and firmly established itself on the mining market, winning the most important Clients on the Polish market.



**Diversification of the product portfolio and implementation of the latest management systems**

**2008 - 2020**

- In the years 2008-2013, EXPROTEC successfully implemented the following systems:
  - Utility Management System in accordance with PN-EN ISO 9001 and ATEX Directive;
  - Health and Safety Management System in accordance with the PN-N 18001 standard;
  - And Environmental Management System in accordance with PN-EN ISO 14001.
- The Company began expanding its operations into the chemical & oil&gas industries, broadening the portfolio of products designed for use in hazardous areas.



**New product developments and multinational partnerships, which resulted in impressive growth**

**2021 - 2023**

- Acquisition of BARTEC Polska and by Munich-based investment firm - FairCap GmbH.
- Successful carve-out of the Company (incl. IT and ERP (SAP)) made it independent from third parties.
- Rebranding to EXPROTEC,
- Introduction of new product developments such regenerative frequency converter, medium voltage flameproof circuit breaker.



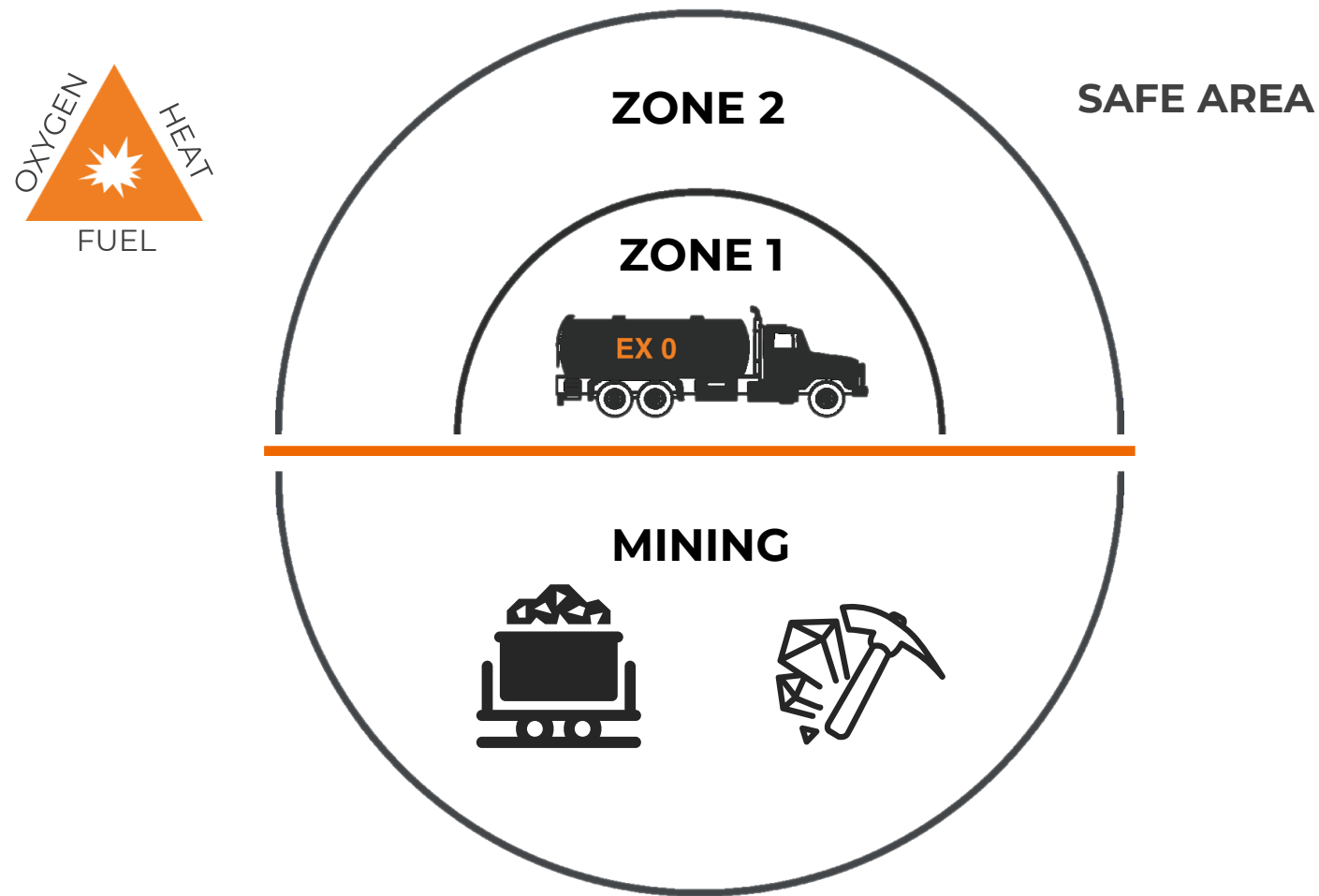
**Readiness to continue growth and benefit from synergies**

**2024 -**

- February 2024 - Acquisition of Exprotec by Tiefenbach Control Systems GmbH

Expertise in the field of hazardous explosion zones, gained through years of extensive experience, allows us to offer innovative solutions in both the underground mining sector and above-ground explosive zones

**EXPROTEC**



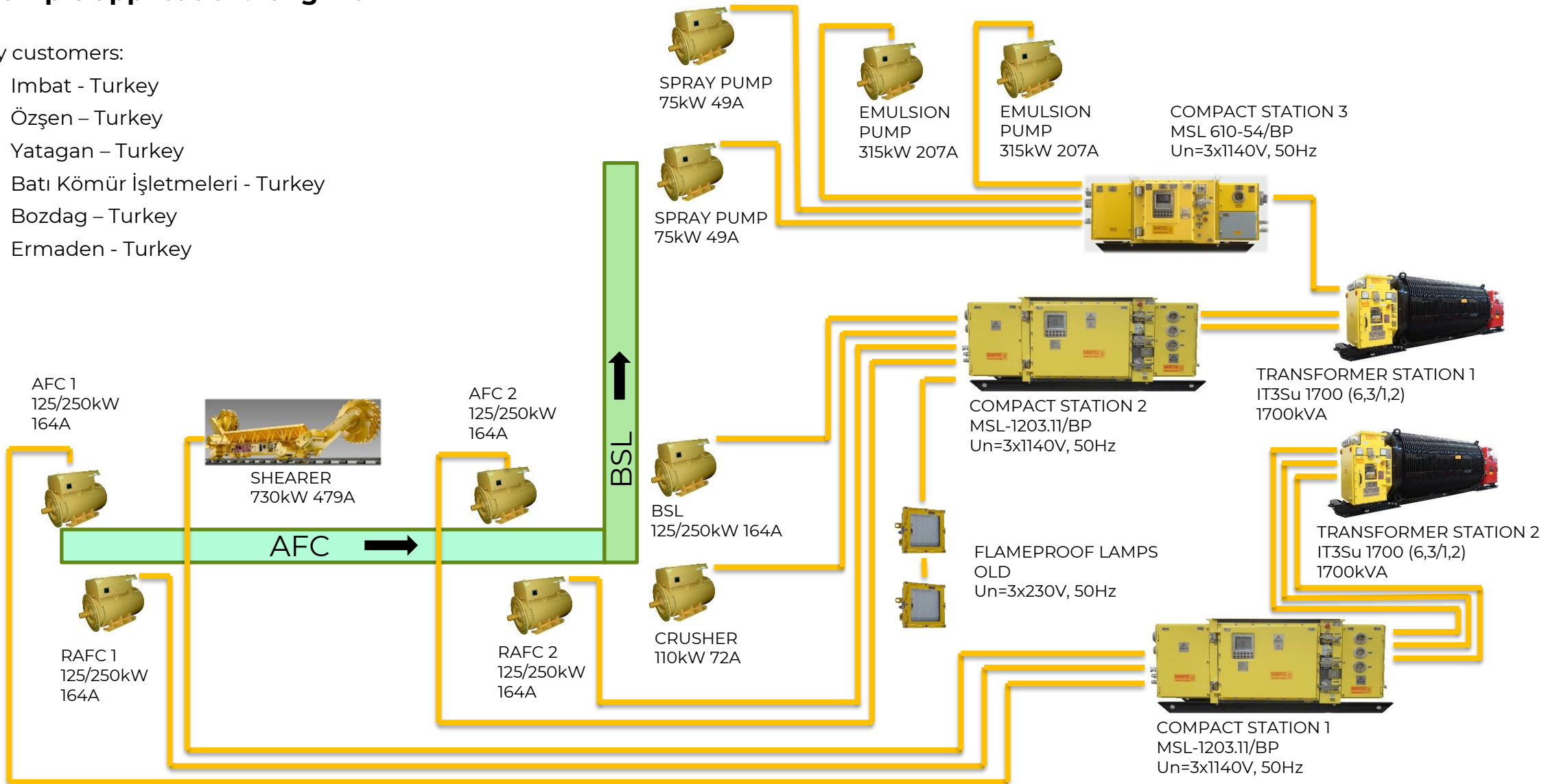
Product portfolio  
- mining sector

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## Example application: long-wall

Key customers:

- » Imbat - Turkey
- » Özşen - Turkey
- » Yatagan - Turkey
- » Batı Kömür İşletmeleri - Turkey
- » Bozdağ - Turkey
- » Ermenen - Turkey

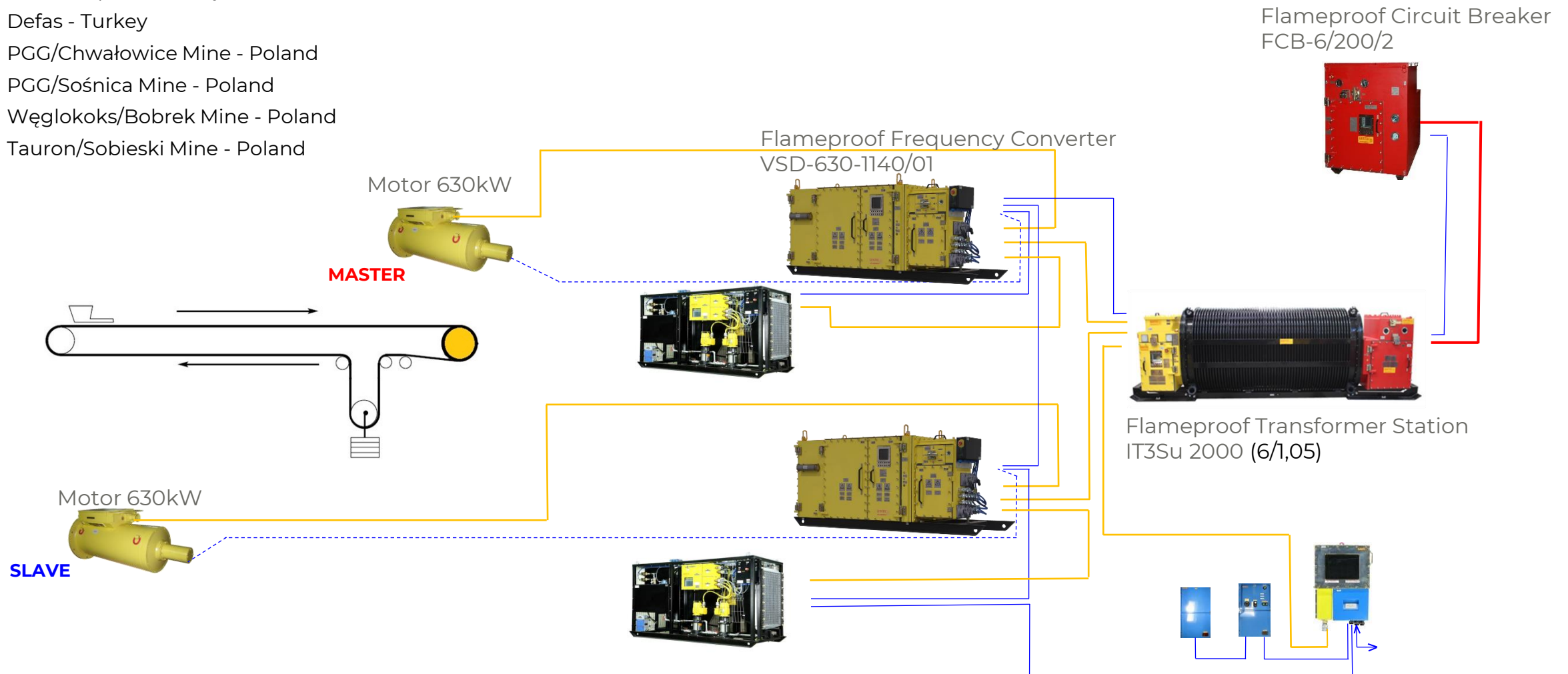




## Example application: belt conveyor

Key customers:

- » Demir Export - Turkey
- » Defas - Turkey
- » PGG/Chwałowice Mine - Poland
- » PGG/Sośnica Mine - Poland
- » Węglókoks/Bobrek Mine - Poland
- » Tauron/Sobieski Mine - Poland



## MV power distribution equipment



### Flameproof Circuit Breaker type FCB-6/\*/\*

Application: power distribution  
Nominal voltage: from 3kV to 7,2kV, 50Hz  
Nominal current: up to 630A



## MV power distribution equipment



### Flameproof Transformer Station, type IT3Su

Application: power distribution and drives control  
Nominal supplying voltage: up to 7,2kV, 50Hz  
Nominal power: up to 2000kVA



## Frequency converters



### Mining Frequency Converter type VSD-630

Application: belt conveyors  
Nominal voltage: from 500V to 1140V, 50Hz  
Nominal current: up to 500A



## Frequency converters



### Mining Frequency Converter type VSD-200/690

Application: fans, pumps, belt conveyors  
Nominal voltage: from 380V to 690V, 50Hz  
Nominal current: up to 220A

## LV power distribution equipment



### Flameproof Compact Station type MSL-1203

Application: various drives control and power distribution  
Performance: motor-starters, soft-starters, transformer units  
Nominal voltage: from 380V to 1140V, 50Hz  
Nominal current: up to 1200A  
Nominal power: up to 75kVA





## LV power distribution equipment



### Flameproof Compact Station type MSL 610

Application: various drives control and power distribution  
Performance: motor-starters, soft-starters, transformer units  
Nominal voltage: from 380V to 1140V, 50Hz  
Nominal current: up to 800A  
Nominal power: up to 16kVA



## Motor-starters and Transformer units



### Flameproof Motor Starter type MSL-200

Application: pumps, fans, belt conveyors  
Nominal voltage: from 380V to 1140V, 50Hz  
Nominal current: up to 315A





## Motor-starters and Transformer units



### Flameproof Transformer Unit type ZTO

Application: power distribution  
Nominal voltage: from 380V to 1140V, 50Hz  
Nominal power: up to 5kVA



## Control and monitoring equipment



### Flameproof Controller type BbCM

Application: process control, CCTV  
Supplying voltage: 24-230V, 50Hz  
Various data transmission options



### Flameproof Camera type BbCAM

Application: CCTV, road-heads monitoring  
Supplying voltage: 24-230V, 50Hz  
Various data transmission options



**Other equipment**



**Mining Heat Exchanger type UC-W\***

Application: frequency converters, motors, spray  
Options: water-water, water-air, water-air/water  
Nominal voltage: from 380V to 1140V, 50Hz  
Cooling power: up to 2x25kW



**Cable Reel type ZK with Rotating Connection**

Application: moving machines with energized cable  
Nominal voltage: up to 1140V, 50Hz  
Nominal current: up to 185A

**Protections, Relays & Components**



Relay Control Module type PMS



Overload Protection type ZNS



Leakage Protection type ER  
100ims



Temperature Protection type  
TMA100AM



Multifunction Relay type PMB-2



Short-circuit Overload  
Protection type OSC3



Data Transmission Separator  
type ISS-1



Leakage Protection type ER  
100ims



Bushing Lines



Intrinsically Safe Relay type  
PSOI



Vacuum contactor 500A @  
1140V



Intrinsically Safe Incremental  
Encoder type IEI



## Lighting and control-connection equipment



### Flameproof Lamp type OLD

Nominal voltage: from 24V to 230V  
Max. power: 30W/3000lm



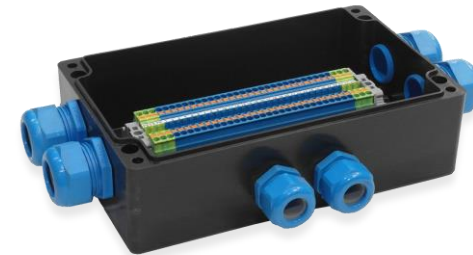
### Flameproof Junction Box type OSR

Marking: Ex d  
Nominal voltage: up to 1140V  
Nominal current: up to 200A



### Control Panel type 07-31

Marking: Ex d i  
GRP, steel or stainless-steel enclosures  
Various configurations available



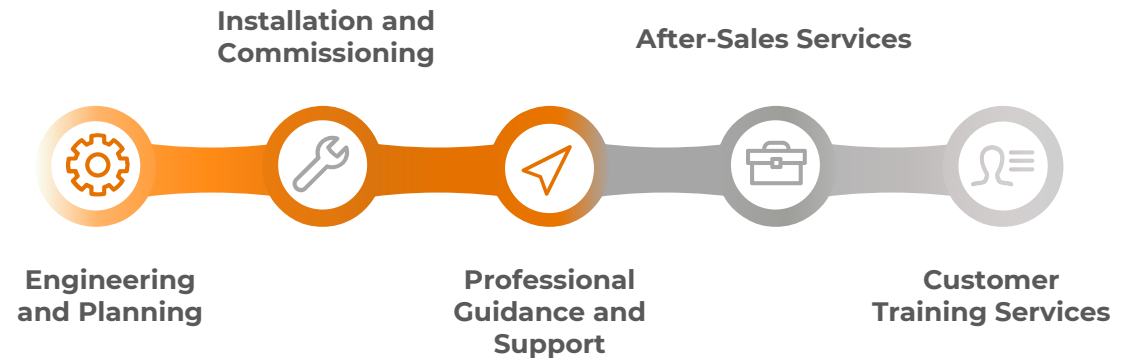
### Distribution Box type 07-5105

Marking: Ex i  
GRP or stainless-steel enclosures  
Various configurations available



**Service for EXPROTEC products includes both:**

- » warranty service
- » post-warranty service and products refurbishment





Thank you

