

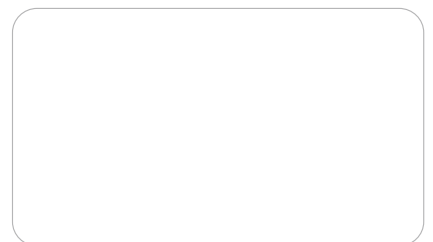


CZ EXPLOSION-PROOF ELECTRIC APPLIANCES CO.,LTD.

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Service station



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EXPLOSION-PROOF/INDUSTRIAL PRODUCTS BROCHURE



Your Partner in Harsh & Hazardous Areas,
We Deliver Safety and Quality.



We Deliver Safety and Quality 29 years





ABOUT CZ

1990

Founded in 1990

100⁺

Over 100+ certifications
of ATEX and IEC Ex

120⁺

Over 120+ patents

1st

1st company qualified with
DNV ATEX certification in
explosion proof manufacturing
industry in China since 2008

5

Five products groups
Ex components
Ex cable glands
Full plastic Ex products
Stainless steel Ex products
Aluminum-alloy Ex products

50⁺

Footprint covers more
than 50 nations and regions

APPLICATION FIELDS



Petrochemical



Pharmaceutical
equipment



Foods
manufacture



Energy
& power



Military
ships



Spaceflight &
Aviation



Precision
electronics

A Explosion-proof electric apparatus



Explosion-proof push button, switch

Ⓜ II 2 G Ex db eb II C Gb

Zone 1 and zone 2

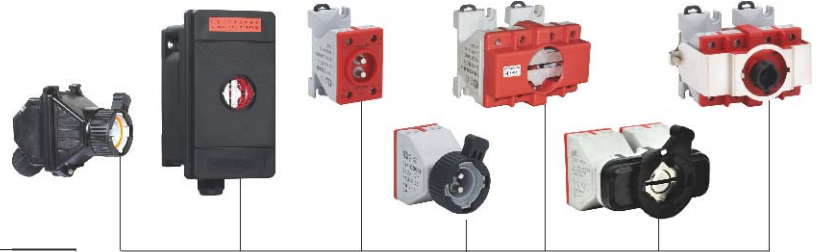
Ambient temperature: $-55^{\circ}\text{C}/-40^{\circ}\text{C} \leq \text{Ta} \leq +60^{\circ}\text{C}$ (-55°C Optional)

Operating temperature: $-55^{\circ}\text{C}/-40^{\circ}\text{C}$ to $+90^{\circ}\text{C}$

Rated voltage: 400V 400V 110V 400V 400V

Electrical data: AC-12 AC-15 DC-13 AC-3 AC-23

Rated current: 16A 10A 1A 16A 16A



Operation head Ⓜ II 2 GD Ex eb II C Gb Ex tb IIIC Db $-55^{\circ}\text{C} \sim +65^{\circ}\text{C}$

Zone 1 and zone 2, zone 21 and zone 22, IP66

P1	P2	P3	P4	P6	P7	VE6	Y5□	Y6□	Y2□	K□	H□
Rubber sheath button	Rubber sheath double button	Emergency self-locking button	Black mushroom head button	Emergency stop rotation-releasing operation head	Emergency stop rotation-releasing operation head	Toggle switch operation head (red/yellow)	Operation head of key switch	Operation head of key switch	Emergency stop key-releasing operation head	K□ Operation head of switch (small handle)	H□ Operation head of switch (large handle)

CZ0202 Explosion-proof signal lamp

Ⓜ II 2G Ex db eb II C Gb

Ⓜ II 1G Ex ia II C Ga

Zone 0(Ex ia), zone 1 and zone 2

Ambient temperature:

$-55^{\circ}\text{C}/-40^{\circ}\text{C} \leq \text{Ta} \leq +60^{\circ}\text{C}$ (-55°C Optional)

IP 20

10V-28V AC/DC 20V-250V AC/DC

50V-277V AC/DC 380V-400VAC



CZ0212 Explosion-proof signal lamp with button(panel mounting)

Ⓜ II 2 GD Ex de II C T6 Gb Ex tb IIIC T80°C Db

Zone 1 and 2, zone 21 and 22

Ambient temperature:

$-40^{\circ}\text{C} \leq \text{Ta} \leq +50^{\circ}\text{C}$ (-55°C Optional)

IP66(Match operation head)

Button: Rated voltage/

Rated current: AC250V/10A DC24V/1A

Signal lamp : Rated voltage:

12V-28V AC/DC 20V-250V AC/DC



CZ0203 Explosion-proof potentiometer

Ⓜ II 2 G Ex db eb II C Gb Zone 1 and 2

Ambient temperature:

$-55^{\circ}\text{C}/-40^{\circ}\text{C} \leq \text{Ta} \leq +60^{\circ}\text{C}$ (-55°C Optional)

Operating temperature :

$-55^{\circ}\text{C}/-40^{\circ}\text{C}$ to $+90^{\circ}\text{C}$ (-55°C Optional)

IP20

Rated voltage: Max 200V DC

Rated power: Max 0.1W

Nominal resistance: 100Ω~2MΩ



CZ0203 Explosion-proof potentiometer(panel mounting)

Ⓜ II 2 G Ex de II C T6 Gb Ex tb IIIC T80°C Db

Zone 1 and 2, zone 21 and 22

Ambient temperature: $-40^{\circ}\text{C} \leq \text{Ta} \leq +50^{\circ}\text{C}$

IP66(Match operation head)

Rated voltage: Max 200V DC

Rated power: Max 0.1W

Scale: 0-100%

Nominal resistance: 100Ω~2MΩ



CZ0205 Explosion-proof ammeter/voltmeter

Ⓜ II 2 G Ex eb II C Gb (ammeter)

Ⓜ II 2 G Ex e mb II C Gb (voltmeter / milammeter)

Zone 1 and 2

Operating temperature: $-40^{\circ}\text{C} \sim +95^{\circ}\text{C}$

Ammeter framework: Electromagnetic

Accuracy class: 1.5

Overload scale: 2 times, 5 times



CZ0240/9 Explosion-proof ammeter/voltmeter(panel mounting)

Ⓜ II 2 GD Ex eb II C T6 Gb / Ⓜ II 2GD Ex Eb mb IIC T6 Gb Ex

tb IIIC T80°C Db

Zone 1 and 2, zone 21 and 22

Ambient temperature: $-40^{\circ}\text{C} \leq \text{Ta} \leq +55^{\circ}\text{C}$

IP66

Ammeter framework: Electromagnetic

Accuracy class: 1.5

Overload scale: 2 times, 5 times



CZ1208/2-□ Explosion-proof (flash) buzzer,board back type/panel mounting

Ⓜ II 2 G D Ex eb ib mb II C Gb Ex ib tb IIIC Db

Zone 1 and 2, zone 21 and 22

Ambient temperature: $-40^{\circ}\text{C} \leq \text{Ta} \leq +50^{\circ}\text{C}$

Operating temperature : -40°C to $+90^{\circ}\text{C}$

Degree of protection: IP66

Rated voltage: AC/DC10V-28V, AC/DC 20V-250V

Rated frequency: 50/60Hz

Sound pressure level: 60dB(at 30cm)



A Explosion-proof electric apparatus



CZ0240 Full plastic explosion-proof controller

Ⓜ II 2GD Ex db eb ia mb IIC T6/T5 Gb
 Ex tb IIIC T80°C/T95°C Db
 Zone 1 and 2, zone 21 and 22
 Ambient temperature: $-40^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}/+55^{\circ}\text{C}$
 Degree of protection: IP66
 Rated voltage: up to 500V
 Rated current: up to 16A
 Component terminal: 2.5mm²
 PE terminal: 4mm²
 Material of enclosure:
 Alloy plastic of static resistance



CZ1242 Full plastic explosion-proof control box

Ⓜ II 2GD Ex db eb ia mb IIC T6/T5/T4 Gb
 Ex tb IIIC T80°C/T95°C/T130°C Db
 Zone 1 and 2, zone 21 and 22
 Ambient temperature: $-40^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}/+55^{\circ}\text{C}$
 $-55^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}/+55^{\circ}\text{C}$ (optional)
 Degree of protection: IP66
 Rated voltage: up to 690V
 Rated current: up to 180A
 Component terminal: 2×2.5mm²
 PE terminal: 4mm²
 Material of enclosure:
 (anti-static glass fibre reinforced polyester SMC)



CZ1342 Stainless steel explosion-proof control box

Ⓜ II 2GD Ex db eb ia mb IIC T6/T5/T4 Gb
 Ex tb IIIC T80°C/T95°C/T130°C Db
 Zone 1 and 2, zone 21 and 22
 Ambient temperature: $-40^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}/+55^{\circ}\text{C}$
 $-55^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}/+55^{\circ}\text{C}$ (optional)
 Degree of protection: IP66
 Rated voltage: up to 690V
 Rated current: up to 180A
 Component terminal: 2×2.5mm²
 PE terminal: 4mm²
 Material of enclosure:
 SS304 (on the surface of wire drawing processing)
 SS316L (on the surface of wire drawing processing)
 Carbon steel (Surface spraying plastic powder)



CZ1246 Full plastic explosion-proof limit switch

Ⓜ II 2GD Ex db eb IIC T6/T5 Gb
 Ex tb IIIC T80°C/T95°C Db
 Zone 1 and 2, zone 21 and 22
 Ambient temperature:
 $-20^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}$ ($6\text{A} < I_e \leq 10\text{A}$)
 $-20^{\circ}\text{C} \leq T_a \leq +50^{\circ}\text{C}$ ($I_e \leq 6\text{A}$)
 Degree of protection: IP66
 Rated voltage: up to 320VAC 250VDC
 Rated current: up to 10A
 Rated frequency: 50/60Hz
 Material of enclosure: Alloy plastic of static resistance
 Component terminal: 4×0.5-1.5mm²



B Explosion-proof electric apparatus



CZ0520 Explosion-proof terminal box

Ⓜ II 1G Ex ia IIC T6/T5 Ga Ⓜ II 1G Ex ib IIC T6/T5 Ga
 Ⓜ II 2G Ex eb IIC T6/T5 Gb Ⓜ II 2G Ex tb IIIC T80°C/T95°C Gb
 Can be used in Zone 1 and 2, zone 21 and 22
 Degree of protection: IP66
 Ambient temperature:
 -55°C/-40°C/-20°C ≤ Ta ≤ +40°C/+55°C
 (For low temperature, it is subject to the ambient temperature of cable gland to be used)
 Rated voltage: up to 690V
 Type of terminal:
 pillar type terminal(0.5-6mm) max 6mm²/32A cage type terminal, miniature terminal, common terminal(1.5mm²-6mm²)
 Earthing terminal: 2×4mm²
 Material of enclosure: GRP
 (anti-static glass fibre reinforced polyester SMC)



CZ1520/01 Flameproof terminal box

Ⓜ II 2GD Ex db IIC T6/T5/T4 Gb Ex tb IIIC T80°C/T95°C/T130°C Db
 Can be used in Zone 1 and 2, zone 21 and 22
 Ambient temperature:-55°C ≤ Ta ≤ +60°C
 Degree of protection: IP66
 Type of terminal:miniature terminal,common terminal
 Rated voltage: up to 690V
 Earthing terminal: max 95mm²
 Rated current: up to 216A
 Material of enclosure:
 aluminum alloy enclosure,
 powder coated



CZ1220 Explosion-proof terminal box

Ⓜ II 2G Ex eb IIC T6/T5/T4 Gb Ex ia/ib IIC T6/T5/T4 Ga
 Ⓜ II 1G Ex tb IIIC T80°C/T95/T130°C Gb
 Can be used in Zone 0,1 and 2, zone 20, 21 and 22
 Degree of protection: IP66/IP65
 Ambient temperature:
 -40°C ≤ Ta ≤ +40°C/+55°C
 -55°C ≤ Ta ≤ +40°C/+55°C
 Rated voltage: up to 1000V
 Rated current: up to 630A
 Material of enclosure: GRP
 (anti-static glass fibre reinforced polyester SMC)



CZ1320 Explosion-proof terminal box

Ⓜ II 2G Ex eb IIC T6/T5/T4 Gb Ex ia/ib IIC T6/T5/T4 Ga
 Ⓜ II 1G Ex tb IIIC T80°C/T95/T130°C Gb
 Can be used in Zone 0,1 and 2, zone 20, 21 and 22
 Degree of protection: IP66/IP65
 Rated voltage: up to 1000V
 Rated current: up to 630A
 Ambient temperature:
 -40°C ≤ Ta ≤ +40°C/+55°C
 -55°C ≤ Ta ≤ +40°C/+55°C
 Material of enclosure:
 SS304(on the surface of wire drawing processing)
 SS316L(on the surface of wire drawing processing)



CZ0220/12 Plastic cable gland

Ⓜ II 2GD Ex eb IIC Gb Ex tb IIIC Db
 Can be used in Zone 1 and 2, zone 21 and 22
 Ambient temperature:
 -55°C/-40°C ≤ Ta ≤ +40°C/+60°C (-55°C optional)
 Operating temperature : -55°C to +75°C
 Degree of protection: IP66
 Material of enclosure: polyamide



CZ0220/12-Ex e CZ0220/13-Ex i

CZ0221, CZ0226, CZ0227 Metal cable gland

Ⓜ II 2GD Ex eb IIC Gb Ex tb IIIC Db
 Can be used in Zone 1 and 2,
 zone 21 and 22
 Ambient temperature:
 -40°C ≤ Ta ≤ +110°C
 Degree of protection: IP66
 Material : Brass/Nickel plated brass
 304/316L Stainless steel



CZ0221 CZ0226 CZ0227

CZ1725/2A Metal cable gland

Ⓜ II 2GD Ex db IIC Gb Ex eb IIC Gb
 Ex tb IIIC Db
 Can be used in Zone 1 and 2,
 zone 21 and 22
 Operating temperature :
 -60°C to +100°C
 Degree of protection: IP66
 Material : Brass/Nickel plated brass
 304/316L Stainless steel



CZ1725/2A CZ1725/1A
CZ1725/1B CZ1725/1C

CZ1725/27, CZ0527 Increased safety breathing, drainage valve

Ⓜ II 2GD Ex eb IIC Gb Ex tb IIIC Db
 Can be used in Zone 1 and 2,
 zone 21 and 22
 Ambient temperature/
 Operating temperature : -40°C to +85°C
 Degree of protection:
 (subject to mounting position of product
 IP65(For vertical downwards installation)
 IP64(For random installation)
 Material : polyamide
 304/316L Stainless steel
 Brass/Nickel plated brass



CZ0527 CZ1725/27

CZ0220/32, CZ0220/42 Plastic stopping plug and reducer CZ1725/3A, CZ1725/4A Metal stopping plug and reducer

CZ0220/32, CZ0220/42

Ⓜ II 2GD Ex eb IIC Gb Ex tb IIIC Db
 Can be used in Zone 1 and 2,
 zone 21 and 22
 Ambient temperature:
 -55°C/-40°C ≤ Ta ≤ +40°C/+60°C
 (-55°C optional)
 Operating temperature : -55°C to +75°C
 Degree of protection: IP66
 Material of enclosure: polyamide



CZ0220/32
Plastic stopping plug
CZ0220/42
Plastic reducer

CZ1725/3A, CZ1725/4A

Ⓜ II 2GD Ex db IIC Gb Ex eb IIC G/Ex tb
 IIIC Db
 Can be used in Zone 1 and 2,
 zone 21 and 22
 Operating temperature :
 -60°C to +100°C
 Degree of protection: IP66
 Material :
 Brass/Nickel plated brass
 304/316L Stainless steel



CZ1725/3A
Metal stopping plug
CZ1725/4A
Metal reducer

Accessories



201 Locknut 203 Locknut 200 Seals 212 Earthing flakes 4008 Brass earthing nut

C Explosion-proof electric apparatus



CZ025 □ Full plastic Ex plugs and sockets

Ⓜ II 2GD Ex db eb II C T6 Gb Ex tb IIIC T80°C Db (Ta ≤ +45°C)
 Ⓜ II 2GD Ex db eb II C T5 Gb Ex tb IIIC T95°C Db (Ta ≤ +55°C)
 Zone 1, Zone 2, Zone 21, Zone 22
 Ambient temperature use: -40°C ≤ Ta ≤ +55°C
 Rated current: 16A, 32A, 63A, 125A
 Rated voltage: 2 poles- 50V AC 50/60Hz, 50V DC
 3 poles- max 250V AC, 50/60 Hz
 4 poles- max 690V AC, 50/60 Hz
 5 poles- max 415V AC, 50/60 Hz

Material of enclosure:
 Alloy plastic of static resistance
 GRP Anti-static glass fibre reinforced polyester (SMC)
 Degree of protection: IP65/ IP66

IECEX, ATEX International certification.
 Self-cleaning inserting sleeve, low transmission resistance
 Protective covers ensure high degree of protection.
 Small force of inserting and pulling.



CZ1290 Explosion-proof distribution box



CZ1490 Explosion-proof distribution box



CZ1390 Explosion-proof distribution box (removable type)



CZ1290 Explosion-proof distribution box (mobile power branch connection socket box)



CZ1290 Explosion-proof distribution box (mobile socket box)



CZ1290 Explosion-proof distribution box (socket box with transformer)

CZ1290/□, CZ1390/□ Explosion-proof distribution box (Magnetic starter)

Ⓜ II 2GD Ex db eb mb II C T6/T5/T4 Gb Ex tb IIIC T80°C/T95°C/T130°C Db
 Zone 1, Zone 2, Zone 21, Zone 22
 Ambient temperature use: -20°C ≤ Ta ≤ +40°C/ +55°C (IIC)
 -40°C ≤ Ta ≤ +40°C/ +55°C (IIB)
 Degree of protection: IP66/ IP65
 Rated voltage: max 690V
 Rated current: max 38A
 On-off capacity: AC3/4~18.5 Kw
 Coil voltage: AC 24V, 36V, 48V, 110V, 220V, ..., 440V (50/60 Hz)
 Material of enclosure: GRP (anti-static glass fibre reinforced polyester SMC)
 Stainless steel 304/ 316L



CZ1290 Explosion-proof distribution box (magnetic starter)



CZ1390 Explosion-proof distribution box (magnetic starter)



CE90 Explosion-proof distribution box (Removable type)

Ex d e II C T4 Gb / Ex tD A21 IP66 T130°C
 Ⓜ II 2G Ex db eb ia/ib mb IIB+H2 T6,T5,T4 Gb Ex tb IIIC T80°C,T95°C,T130°C Db
 Intended use: Zone 1, Zone 2,
 Zone 21, Zone 22
 Ambient temperature use: -20°C ≤ Ta ≤ +40°C/ +55°C
 Degree of protection: IP66
 Rated voltage: 220/230V, 380V/400 V
 Rated current: 63A
 Frequency: 50/60 Hz
 Connection cable: 20m (5x25mm²) Plug 63A/5P/6h
 Material of enclosure: aluminum-alloy enclosure and electrostatic powder coated



CZ0550 Explosion-proof cable wheel (with circuit breaker, transformer)

Ex db eb IC/IB T6/T5/T4 Gb Ex tD IIIC T80°C/T95°C/T130°C
 Intended use: Zone 1, Zone 2,
 Zone 21, Zone 22
 Ambient temperature use: -20°C ≤ Ta ≤ +40°C/ +55°C (IIC)
 -40°C ≤ Ta ≤ +40°C/ +55°C (IIB)
 Degree of protection: IP66
 Rated voltage: AC 20~690V, 50/60 Hz
 Rated current: 16A, 32A
 Cable wheel diameter: two options,
 380mm or 460mm
 Explosion-proof cable wheel
 (with circuit breaker, transformer)



C Explosion-proof electric apparatus



Ex-proof distribution box and built-in Ex-proof electric apparatus module Ex de II C



Full plastic explosion-proof distribution box



Stainless steel explosion-proof distribution box



CZ0511-BFL (electromagnetic) BLD(electronic) Ex creep age breaker module

CZ0511 BF(electromagnetic) Ex creep age breaker module

CZ0512-BDI Ex AC contactor module

CZ0512-BDIN Ex reversible type AC contactor module

CZ0512-BZCI Ex magnetic starter module AC contactor +thermorelay

CZ0512-BZC Ex thermorelay module

CZ0512-BH3 Ex time relay module

CZ0512-BMY Ex miniature relay module

CZ0512-BPK Ex motor protection switch

CZ0513 Ex load isolation switch module

CZ0515 Increased safety current transformer module

CZ0516 Increased safety control transformer module

CZ0517-BSPC-S Ex surge protection module

CZ0804 Ex fuse module

Flameproof electric box body

CZ1290, CZ1390 Explosion-proof distribution box(Circuit breaker)

Ⓜ II 2GD Ex db eb II C/ II B T6/T5/T4 Gb
Ex tb IIIC T80°C/T95°C/T130°C Db
Ambient temperature use:
-20°C ≤ Ta ≤ +40°C/ +55°C (IIC)
-40°C ≤ Ta ≤ +40°C/ +55°C (IIB)
Degree of protection: IP66/ IP65
Rated voltage: 230V/400V; 50/60 Hz
Rated current: max 40A
Rated leakage current: 30, 100, 300 mA
Poles: 1P, 2P, 3P, 4P, 1P+N, 3P+N
Material of enclosure: GRP (Anti-static glass fibre reinforced polyester SMC)
Stainless steel 304/ 316L



CZ1290, CZ1390 Explosion-proof distribution box(Motor protection switch)

Ⓜ II 2GD Ex db eb II C/ II B T6/T5/T4 Gb
Ex tb IIIC T80°C/T95°C/T130°C Db
Ambient temperature use:
-20°C ≤ Ta ≤ +40°C/ +55°C (IIC)
-40°C ≤ Ta ≤ +40°C/ +55°C (IIB)
Degree of protection: IP66/ IP65
Rated voltage: 440V; 50/60 Hz
Setting range of overload trip: 0.1 ~ 25A
AC3 motor on-off capacity: up to 440V/ 25A
Capacity of auxiliary contact: AC 15 1A/230V
Voltage trip (under voltage): 230V/ 50 Hz
Material of enclosure: GRP (Anti-static glass fibre reinforced polyester SMC)
Stainless steel 304/ 316L



CZ1290, CZ1390 Explosion-proof distribution box (Safety switch)

Ⓜ II 2GD Ex db eb II C/ II B T6/T5 Gb
Ex tb IIIC T80°C/T95°C Db
Ambient temperature use: -40°C ≤ Ta ≤ +40°C/ +55°C
-55°C ≤ Ta ≤ +40°C/ +55°C (For option)
Degree of protection: IP66/ IP65
Rated current: 16A, 25A, 40A, 80A, 180A
Rated voltage: max 690V
Material of enclosure: GRP
(Anti-static glass fibre reinforced polyester SMC)
Stainless steel 304/ 316L



CZ1290, CZ1390 Explosion-proof distribution box (Isolator switch)

Ⓜ II 2GD Ex db eb II C T6/T5/T4 Gb Ex tb IIIC T80°C/T95°C/T130°C Db
Ambient temperature use: -40°C ≤ Ta ≤ +40°C/ +55°C
-55°C ≤ Ta ≤ +40°C/ +55°C (For option)
Degree of protection: IP66/ IP65
Rated current: 16A, 25A, 40A, 80A, 180A
Rated voltage: max 690V
Material of enclosure: GRP
(Anti-static glass fibre reinforced polyester SMC)
Stainless steel 304/ 316L

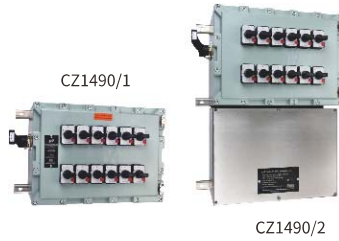


D Explosion-proof Electrical Panel



CZ1490/1, CZ1490/2 Explosion-proof distribution panel

Ⓢ II 2 GD Ex db IIB T6/T5/T4 Gb
 Ⓢ II 2 GD Ex db eb IIB T6/T5/T4 Gb
 Ex tb IIIC T80°C/T95°C/T130°C Db
 Can be used in zone 1 and zone 2
 Can be used in zone 21 and zone 22
 Ambient temperature: $-55^{\circ}\text{C} \leq \text{Ta} \leq +60^{\circ}\text{C}$
 $-20^{\circ}\text{C} \leq \text{Ta} \leq +60^{\circ}\text{C}$
 Degree of protection: IP66 (No sealing bar)
 IP67 (With sealing bar)
 Rated voltage: Up to 1000V AC
 Rated current: Up to 1250A
 Material of enclosure: Aluminum-alloy enclosure and electrostatic powder coated



CZ1442/1 Explosion-proof control panel

Ⓢ II 2 GD Ex db IIB T6/T5/T4 Gb
 Ex tb IIIC T80°C/T95°C/T130°C Db
 Can be used in zone 1 and zone 2
 Can be used in zone 21 and zone 22
 Ambient temperature: $-55^{\circ}\text{C} \leq \text{Ta} \leq +60^{\circ}\text{C}$
 $-20^{\circ}\text{C} \leq \text{Ta} \leq +60^{\circ}\text{C}$
 Degree of protection: IP66 (No sealing bar)
 IP67 (With sealing bar)
 Rated voltage: Up to 1000V AC
 Rated current: Up to 630A
 Material of enclosure: Aluminum-alloy enclosure and electrostatic powder coated



CE Explosion-proof distribution panel

Ⓢ II 2G Ex db eb ia/ib mb IIB+H2 T6,T5,T4 Gb
 Ex tb IIIC T80°C,T95°C,T130°C Db
 Ambient temperature: $-20^{\circ}\text{C} \leq \text{Ta} \leq +40^{\circ}\text{C}/+55^{\circ}\text{C}$
 Degree of protection: IP66/IP65
 Rated current: Up to 180A
 Rated voltage: Up to 380V
 Material of enclosure: Aluminum-alloy enclosure and electrostatic powder coated



CE90/2
Explosion-proof distribution panel



CE90/2
Explosion-proof distribution panel (with socket)



CE81/2
Explosion-proof distribution panel (electromagnetic starter)



CE31/2
Explosion-proof distribution panel (circuit breaker)

E Industrial Electric Apparatus



Board front rail type, board back type push button, switch module

Ambient temperature: $-55^{\circ}\text{C} \leq \text{Ta} \leq +60^{\circ}\text{C}$
 Rated voltage: 400V 400V 110V 400V 400V
 Utilization category: AC-12 AC-15 DC-13 AC-3 AC-23
 Rated current: 16A 10A 1A 16A 16A



Operation head Ⓢ I I2GD EX eb IICGb Ex tb III CDb $-55^{\circ}\text{C} \sim +65^{\circ}\text{C}$
 Used in zone 1 and zone 2, zone 21 and zone 22 IP66

P1	P2	P3	P4	P6	P7	VE6	Y5□	Y6□	Y2□	K□	H□
Rubber sheath button	Rubber sheath double button	Emergency push-pulling button	Black mushroom head button	Emergency stop twist to release button	Emergency stop twist to release button	Toggle switch operation head	Key switch operation head	Key switch operation head	Emergency stop key-releasing button	K□ switch operation head (small handle)	H□ switch operation head (big handle)

Signal lamp component

M0202 Signal lamp

$-55^{\circ}\text{C} \leq \text{Ta} \leq +60^{\circ}\text{C}$
 IP20
 10V - 28V AC/DC
 20V - 250V AC/DC
 50V - 277V AC/DC
 380V - 400V AC



Signal lamp with button component

M0212 Signal lamp with button

$-55^{\circ}\text{C} \leq \text{Ta} \leq +60^{\circ}\text{C}$
 IP20
 12V-250V AC/DC
 Mechanical life: 300,000 times



Potentiometer component

M0203 Potentiometer

$-55^{\circ}\text{C} \leq \text{Ta} \leq +60^{\circ}\text{C}$ IP20
 Rated voltage: Max input voltage 200V DC or rated power, based the minimum value
 Rated power: 0.1W
 Scale: 0-100%



E Series Industrial Electric Apparatus



Industrial controller, industrial control box

M0240 Full plastic industrial controller

Corrosion-proof mark: WF2
 Ambient temperature: $-55^{\circ}\text{C} \leq \text{Ta} \leq +55^{\circ}\text{C}$
 Degree of protection: IP66
 Rated voltage: Up to 500V
 Rated current: Up to 16A
 Component terminals: 2.5mm^2 PE terminals: 4mm^2
 Material of enclosure: Polyamide



M1242, M1342 Industrial control box

Corrosion-proof mark: WF2
 Ambient temperature: $-55^{\circ}\text{C} \leq \text{Ta} \leq +55^{\circ}\text{C}$
 Degree of protection: IP66
 Rated voltage: Up to 500V
 Rated current: Up to 16A
 Component terminals: 2.5mm^2 PE terminals: 4mm^2

Material of enclosure:
 GRP(glass fibre reinforced polyester SMC)
 SS304 (on the surface of wire drawing processing)
 SS316L(on the surface of wire drawing processing) --Optional
 Carbon steel (surface spraying plastic powder) --Optional

Material thickness:
 Standard 1.5mm (2mm customized)



M1242 Full plastic industrial control box (operation post)



M1242 Full plastic industrial control box



M1342 Stainless steel control box

Industrial terminal box

M0520 Industrial terminal box

Corrosion-proof mark: WF2
 Ambient temperature: $-55^{\circ}\text{C} \leq \text{Ta} \leq +55^{\circ}\text{C}$
 Degree of protection: IP66
 Rated voltage: Up to 500V
 Rated current: Up to 16A
 Component terminals: 2.5mm^2 PE terminals: 4mm^2
 Material of enclosure: Polyamide



M0520/21



M0520/31

M1220, M1320 Industrial terminal box

Corrosion-proof mark: WF2
 Ambient temperature: $-55^{\circ}\text{C} \leq \text{Ta} \leq +55^{\circ}\text{C}$
 Degree of protection: IP66
 Rated voltage: Up to 1000V
 Rated current: Up to 630A
 Component terminals: 2.5mm^2 PE terminals: 4mm^2
 Material of enclosure: GRP(glass fibre reinforced polyester SMC)
 SS304 (on the surface of wire drawing processing)
 SS316L(on the surface of wire drawing processing) --Optional
 Carbon steel (surface spraying plastic powder) --Optional

Material thickness: Standard 1.5mm (2mm customized)



M1220 Full plastic industrial terminal box



M1320 Industrial terminal box



M0220/12 plastic cable gland



M0220/32 plastic stopping plug

Industrial plug and socket, industrial distribution panel

MS025 Industrial plug and socket (Switchgear with mechanical interlock)

Corrosion-proof mark: WF2
 Ambient temperature: $-55^{\circ}\text{C} \leq \text{Ta} \leq +55^{\circ}\text{C}$
 Rated current: 16A, 32A, 63A, 125A
 Rated voltage: 2P-50V AC 50/60Hz 50V DC
 3P-Up to 250V AC 50/60Hz
 4P-Up to 690V AC 50/60Hz
 5P-Up to 415V AC 50/60Hz
 Material of enclosure: GRP (glass fibre reinforced polyester SMC)
 Degree of protection: IP66



M1290/□, M1390/□ Industrial distribution panel (electromagnetic starters)

Corrosion-proof mark: WF2
 Ambient temperature: $-55^{\circ}\text{C} \leq \text{Ta} \leq +55^{\circ}\text{C}$
 Degree of protection: IP66
 Rated voltage: 690V
 Rated current: Up to 38A
 On-off capacity: AC3/4-18.5kW
 Coil voltage: AC24V, 36V, 48V, 110V, 220V...440V (50/60Hz)
 Material of enclosure: GRP(glass fibre reinforced polyester SMC)
 Stainless steel



M1290/□, M1390/□ Industrial electromagnetic starters

M1290/□, M1390/□ Industrial distribution panel

Corrosion-proof mark: WF2
 Ambient temperature: $-55^{\circ}\text{C} \leq \text{Ta} \leq +55^{\circ}\text{C}$
 Degree of protection: IP66
 Rated voltage: Up to 400V
 Rated current: Up to 600A
 Material of enclosure: GRP (glass fibre reinforced polyester SMC)
 Stainless steel



M1290/□, M1390/□ Industrial distribution panel

M1290, M1390 Industrial distribution panel(circuit breakers)

Corrosion-proof mark: WF2
 Ambient temperature: $-55^{\circ}\text{C} \leq \text{Ta} \leq +55^{\circ}\text{C}$
 Degree of protection: IP66
 Rated voltage: 230/400V 50/60Hz
 Rated current: 1-630A
 Rated remained action current: 30mA, 100mA, 300mA
 Number of poles: 1P, 2P, 3P, 4P, 1P+N, 3P+N



M1290/□, M1390/□ Industrial circuit breaker

Explosion-proof light fittings



IIB, IIC Explosion-proof light fittings (Zone 1 and zone 2, zone 21 and zone 22)

Intelligent LED explosion-proof lighting system

Ex de II C T6 Gb
Ex tb IIIC T80°C Db
IP66
-20°C/-40°C to +40°C/+55°C
100~250V AC 50Hz/60Hz
LED:30W, 45W, 60W, 75W



Wireless Gateway
· WIFI or GPRS



Regional control
· Can be achieve regional control.



light sense
· ON<10 Lux
· OFF≥40Lux



Intelligent appointment
· Customize time by week or month,
Open or close on time



Light control
· Radar induction range:
10 meters, V=0.5-3 M / sec.
· Static: 0%, 10%, 20%, 30%, 50%
(adjustable)
· Dynamic: 100%



Energy saving
· Latest LED Technology
· Energy saving (relative incandescent
lamp energy saving 82%)
· Long life (50000 hours)
· Maintenance free (5 years)
· Efficiency (115lm/W)

CZ0873/1□, CZ0874/1□LED Explosion-proof light fittings

⊕ II 2GD Ex de II C T6 Gb
Ex tb IIIC T80°C Db
IP66
-20°C/-40°C to +40°C/+55°C
100~240V AC 50Hz/60Hz
LED:30W, 45W, 60W



CZ0870d/LED Explosion-proof light fittings

⊕ II 2GD Ex db eb op is II C T5/T4 Gb
Ex tb IIIC T95°C/T130°C Db
IP66
-20°C/-40°C to +40°C/+55°C
110~250V AC 50Hz/60Hz
LED:90W, 120W, 160W



CZ0873/4, CZ0874/4 LED Explosion-proof light fittings

Ex de II C T6/T5 Gb
Ex td A21 IP66 T80°C
IP66
-20°C/-40°C to +40°C/+55°C
100~250V AC 50Hz/60Hz
LED:30W, 45W, 60W, 75W



CZ0877d Explosion-proof projecting light fittings

Explosion-proof light fittings
Ex de II B+H2 T3 Gb
Ex td A21 IP66 T195°C IP66
Source power: Max 400W
Explosion-proof ballast:
Ex d II B T6 Gb
Ex td A21 IP66 T80°C IP66
-20°C to +55°C
220VAC, 230VAC, 240VAC, 50Hz, 60Hz
Type of light source: Metal halide lamp, high pressure sodium lamp



CZ0878d Explosion-proof floodlight light fittings LED (wide beam, narrow beam, street light)

⊕ II 2GD Ex de eb op is II B T* Gb
Ex tb op is IIIC T* Db
IP66
-20°C to +40°C/+55°C
110~277V AC 50Hz/60Hz
LED:120W, 160W, 200W
Light distribution type :
wide beam, narrow beam, street light



CZ0878d Explosion-proof floodlight light fittings

⊕ II 2GD Ex de eb II B T* Gb
Ex tb IIIC T* Db
IP66
-20°C to +40°C/+55°C
Type of light source:
Metal halide lamp, high pressure sodium lamp,
electromagnetic induction energy saving lamp
Source power: Max 400W
220VAC, 230VAC, 240VAC, 220V~240VAC,
230/240VAC, 50Hz, 60Hz, 50/60Hz



International certification

CZ0264/20 Explosion-proof LED indicating luminaire

⊕ II 2GD Ex eb ib op is II C T4 Gb Ex tb IIIC T80°C Db
(Product no fuse and no isolation switch)
⊕ II 2GD Ex Db eb ib mb op is II C T4 Gb Ex tb IIIC T80°C Db
(Product with fuse or isolation switch)
-20°C to +55°C
IP66
100~250V AC 50Hz/60Hz
LED3W

China certification

CZ0264/20 Explosion-proof fire emergency lighting luminaire

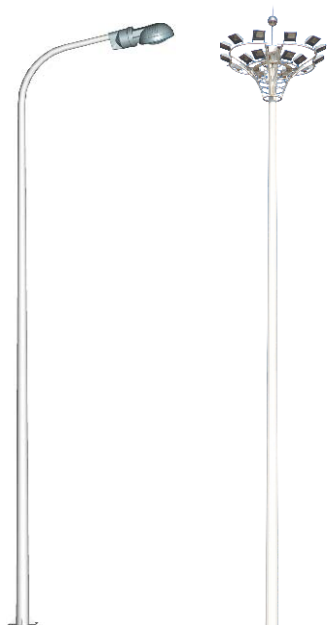
China fire certification:CCCF
Explosion-proof certificate:
Ex de ib mb q II C T4 Gb Ex td A21 IP66 T80°C
(Product with fuse and isolation switch)
-20°C to +55°C
IP66
220V AC 50Hz/60Hz
LED3W



Explosion-proof light fittings



IIB,IIC Explosion-proof light fittings (Zone 1 and zone 2, zone 21 and zone 22)



CZ0264/31 Explosion-proof LED (emergency) linear light fittings

Ⓜ II 2GD Ex eb mb op is q II C T6/T5 Gb Ex tb op is IIIC T80°C Db
(Product without fuse or switch fitted)
Ⓜ II 2GD Ex db eb mb op is q II C T6/T5 Gb Ex tb op is IIIC T80°C Db
(Product with fuse and switch fitted)
-25°C to +40°C/+55°C
IP55
100~250V AC 50Hz/60Hz
Color temperature: 5700K
LED16W
Battery designed life: ≥500 times recharging



CZ0865, CZ0866 Full plastic explosion-proof (emergency) LED linear light fittings

Ⓜ II 2GD Ex db eb mb op is q II C T5/T4 Gb Ex tb op is IIIC T80°C Db (Product with isolation switch)
-25°C to +40°C/+55°C
IP66 (IP64 with breather CZ0527)
100~250V AC 50Hz/60Hz
Color temperature: 5700K
LED: 1×30W, 2×30W
Emergency illuminating time: >120min



CZ0873/2BJD LED Explosion-proof warning light fittings

Ⓜ II 2GD Ex de II C T6 Gb
Ex tb IIIC T80°C Db
IP66
-20°C/-40°C to +40°C/+55°C
24VAC/DC, 110VAC, 220VAC,
220~240VAC
LED:Max10W



CZ0873/2BZDL(B) Explosion-proof aviation obstruction light fittings

Ⓜ II 2GD Ex de II C T6 Gb
Ex tb IIIC T80°C Db
IP66
-20°C/-40°C to +40°C/+55°C
220V AC 50Hz
220~240V AC 50Hz/60Hz
LED:MAX10W
Pulsed stroboflash
xenon lamp: <10W



CZ0873/2BTD LED Explosion-proof signal towerlight fittings

Ⓜ II 2GD Ex de II C T6 Gb
Ex tb IIIC T80°C Db
IP66
-20°C/-40°C to +40°C/+55°C
24V AC/DC
110V AC 50Hz/60Hz
220V AC 50Hz/60Hz
220~240V AC
50Hz/60Hz
LED:MAX10W



CZ1361, CZ1362 Explosion-proof (emergency) LED linear light fittings

Ⓜ II 2GD Ex db eb mb op is q II C T4 Gb
Ex tb op is IIIC T80°C Db
(Product with isolation switch and fuse)
-25°C to +40°C/+55°C
IP66
100~250V AC 50Hz/60Hz
Color temperature: 5700K
LED: 1×30W, 2×30W
Emergency illuminating time: >120min



CZ1363/3, CZ1363/4 Explosion-proof (emergency) LED linear light fittings

Ⓜ II 2GD Ex eb m b op is q II C T4 Gb
Ex tb op is IIIC T80°C Db
-25°C to +40°C
IP66
100~250V AC 50Hz/60Hz
Color temperature: 5700K
LED: 2×30W, 4×30W
Emergency illuminating time: >120min



CZ1260 Full plastic explosion-proof overhaul light fitting/equipment light fittings

Ⓜ II 2GD Ex de II C T6/T5 Gb Ex tb IIIC T80°C/T95°C Db
-25°C/-40°C to +40°C/+55°C
12-36V AC 50Hz/60Hz
12-48V DC
100-250V AC/DC
48-110V AC 50Hz/60Hz
70-110V DC
LED: 11W



Explosion-proof light fittings



Type of protection "N" Explosion-proof light fittings (zone 2, zone 21 and zone 22)

CZ0870n Explosion-proof street light fittings

Ex nR II C T3 Gc
Ex tD A21 IP66 T195°C Db
IP66
-40°C to +55°C
220V AC, 230V AC, 240V AC,
50Hz, 60Hz
Type of light source:
Metal halide lamp,
high pressure sodium lamp



CZ0875, CZ0876 Full plastic explosion-proof (emergency) LED linear light fittings

Ⓜ II 3 G Ex ec op is II C T5/T4 Gc
Ⓜ II 2 D Ex tb op is IIIC T80°C Db
-25°C to +40°C/+55°C
IP66(IP64 with breather CZ0527)
100~250V AC 50Hz/60Hz
Color temperature: 5700K
LED: 1×30W, 2×30W
Emergency illuminating time: >120min



CZ0879/1, 2, 3 Explosion-proof light fittings (LED)

Ⓜ II 3GD Ex nR II C T* Gc
Ⓜ II 2GD Ex tb IIIC T* Db
IP66
-40°C to +40°C/+55°C
100~250V AC 50Hz/60Hz
LED: 30W, 45W, 60W, 90W



CZ0878n Explosion-proof floodlight light fitting

Ⓜ II 3 G Ex nR II C T* Gc IP66
Ⓜ II 2 D Ex tb IIIC T* Db -40°C to +40°C/+55°C
Type of light source: Metal halide lamp,
high pressure sodium lamp, electromagnetic
induction energy-saving lamp
Source power: Max 400W
220VAC, 230VAC, 240VAC, 220V~240VAC,
230/240VAC, 50Hz, 60Hz, 50/60Hz



CZ0870n/LED Explosion-proof light fittings

Ⓜ II 3 G Ex nR II C T5/T4 Gc
Ⓜ II 2 D Ex tb IIIC T95°C/T135°C Db
IP66
-40°C to +40°C/+55°C
110~250V AC 50Hz/60Hz
LED: 90W, 120W, 160W



CZ1371, CZ1372 Explosion-proof (emergency) LED linear light fittings

Ⓜ II 3 G Ex ec op is II C T5/T4 Gc
Ⓜ II 2 D Ex tb op is IIIC T80°C Db
-25°C to +40°C/+55°C
IP66
100~250V AC 50Hz/60Hz
Color temperature: 5700K
LED: 1×30W, 2×30W
Emergency illuminating time: >120min



CZ0878n Explosion-proof floodlight light fittings LED (wide beam, narrow beam, street light)

Ⓜ II 3 G Ex nR II C T* Gc IP66
Ⓜ II 2 D Ex tb IIIC T* Db -40°C to +40°C/+55°C
LED: 120W, 160W, 200W 110~277V AC
Light distribution type : 50Hz/60Hz
wide beam, narrow beam,
street light



CZ0877n Explosion-proof projecting light fittings

Ex nR II C T4/T3 Gc IP66
Ex tD A21 IP66 T130°C/T195°C Db -40°C to +55°C
Type of light source: Metal halide lamp,
high pressure sodium lamp
Source power: Max 400W
220V AC, 230V AC, 240V AC, 50Hz, 60Hz



CZ1373/3, CZ1373/4 Explosion-proof LED (emergency) LED linear light fittings

Ⓜ II 2GD Ex db eb mb op is q II C T4 Gb IP66
Ex tb op is IIIC T80°C Db 100~250V AC
(Product with isolation switch) 50Hz/60Hz
-25°C to +40°C
Color temperature: 5700K
LED: 2×30W, 4×30W
Emergency illuminating time: >120min



Industrial light fittings



Industrial light fittings

M0274/31 Industrial LED emergency liner light fittings

WF2
IP55
-25°C to +55°C
100~250V AC 50Hz/60Hz
Color temperature: 5700K
LED16W
Emergency illuminating time: >120min



M0873/4, M0874/4 LED Industrial illumination light fittings

WF1
IP66
-40°C to +55°C
100~250V AC 50Hz/60Hz
LED: 30W, 45W, 60W, 75W



M0879/1, 2, 3 Industrial (emergency) light fittings (LED)

WF2
IP66
-40°C to +55°C
100~250V AC 50Hz/60Hz
LED: 30W, 45W, 60W, 90W



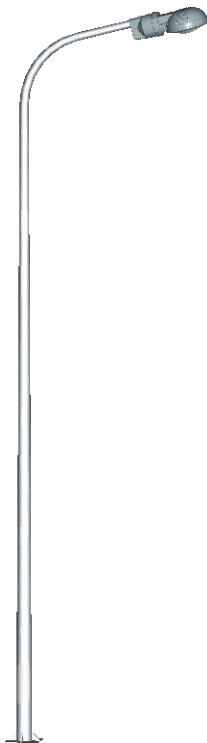
M0875, M0876 Industrial full plastic LED (emergency) liner light fittings

WF2
IP66
-40°C to +55°C
100~250V AC 50Hz/60Hz
Color temperature: 5700K
LED: 1×30W, 2×30W
Emergency illuminating time: >120min



M1371, 1372 Industrial (emergency) LED liner light fittings

WF2
IP66
-40°C to +55°C
100~250V AC 50Hz/60Hz
Color temperature: 5700K
LED: 1×30W, 2×30W
Emergency illuminating time: >120min



M0870 Industrial road light fittings

WF2
IP66
-40°C to +55°C
Light source: Metal halide light-J,
High pressure sodium vapor lamp-N
Power: Max 400W
220VAC, 230VAC, 240VAC, 50Hz, 60Hz

M0870/LED Industrial light fittings

WF2
IP66
-40°C to +55°C
100~250V AC 50Hz/60Hz
LED: 90W, 120W, 160W



M087D/1, 2, 3 (LED) Industrial high dome light fittings (LED)

WF1 IP66
-40°C to +55°C
LED Light source:
30W, 45W, 60W, 90W
100~250V AC 50Hz/60Hz

Power: Max 1000W
220V AC, 230V AC,
240V AC, 50Hz, 60Hz

Light source:
Metal halide lamp-J,
High pressure sodium
vapor lamp-N



M0878 Industrial floodlight light fittings (wide beam, narrow beam, street light)

WF2
IP66
-40°C to +55°C
110V-277V AC, 50Hz/60Hz
LED: 120W, 160W, 200W
Light distribution:
wide beam,
narrow beam, street light



M0878 Industrial floodlight light fittings

WF2
IP66
-40°C to +55°C
Light source:
Metal halide lamp-J,
High pressure sodium
vapor lamp-N
Power: max 400W
220VAC, 230VAC,
240VAC
50Hz, 60Hz



M107G Industrial floodlight light fittings

WF1
IP65
-40°C to +55°C
Light source: Metal halide light-J,
High pressure sodium vapor lamp-N
Power: Max 1000W
220VAC, 230VAC, 240VAC,
50Hz, 60Hz



M0877 Industrial projecting light fittings

WF2
IP66
-40°C to +55°C
Light source: Metal halide
lamp-J,
High pressure sodium
vapor lamp-N
Power: Max 400W
220VAC, 230VAC, 240VAC,
50Hz, 60Hz



Quality is the cornerstone

Also the reason why customers choose us

CZ is the first company qualified with DNV ATEX certification in Explosion-proof manufacturing industry in China since 2008. To meet diverse international and domestic standards and requirements, CZ has been qualified via TUV, DNV and CSA etc. CZ adheres to global cutting edge technology and strictly implements IECEx international standards and ATEX directives. Our entire product portfolio has been tested and certified by China National Quality Supervision and Test Centre for Explosion Protected Electrical Product, and our main products have gained ATEX and IECEx certifications. While quality is the core of CZ, we also highly value environmental protection and staff's well-being.

CZ has gained qualifications including ISO9001 Quality Management, ISO14001 Environment Management and OHSAS 18001 Occupational Health and Safety Management etc, fully following advanced world standards.














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Overseas Reference List

No.	Customer	Project Name	End user	Year	Product category	Country
	EXTEC GROUP s.r.o.	POX Unipetrol Cz Republic	Unipetrol 	2019	Socket panel /control panel	Cz Republic
1	CTCI Malaysia 	1400MW Track 4A IPP Project EPCK	Tenaga National Berhad (msia national electricity co) 	2019	Lighting JB LCS	Malaysia
	DIALOG PLANT SERVICES SDN BHD 	PDT2 – PENERANG DEEPWATER TERMINAL 2 AT PENERANG, JOHOR DARUL TA'ZIM PETROCHEMICAL PRODUCTS	PETRONAS 	2019	Panel	Malaysia
1-1	CUSTOMER DELIGHT TRADING 	ADCO- ADNOC Abu Dhabi Project	ADNOC 	2017- 2019	Socket Panel	UAE
1-2	EXTEC GROUP s.r.o.	Unipetrol RPA - heating circuits for Czech refinery	Czech refinery	2018	Panel	Czech
1-3	Bait Al Aseel Int'nl Group, 	KNPC Mina Al Ahmadi (MAA)Refinery	KNPC 	2019	Lighting Fixture	Kuwait



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2-1	Malux East OÜ 	Orlen Lietuva oil refinery	ORLEN Lietuva 	2017-2019	Lighting Fixture	Lithuania
2-1		Klaipėdos Nafta oil and LNG terminal	Klaipėdos Nafta	2017-2018	Lighting Fixture	Lithuania
2-3		Butingės terminal oil terminal	Butingės	2017-2018	Lighting Fixture Control station	Lithuania
2-4		Ventspils nafta oil terminal	Ventspils 	2017-2018	Lighting Fixture Control station	Lithuania
2-5		Achema chemical products	Achema chemical 	2017-2018	Lighting Fixture Control station	Lithuania
3		JSC Antikor	Technical renovation of Petersburggaz	Petersburggaz	2017-2018	Ex-proof Control boxes Ex-proof plug socket
3-1	Sinopec Shanghai Engineering Co., Ltd. 	Qinghai Damei Ganhe Industrial Park tail gas comprehensive utilization olefins project - polypropylene plant	Sinopec Shanghai Engineering Co., Ltd. 	2018	Power Panel Plug socket	China
3-2	Sinopec Engineering Incorporation 	Dalian West Pacific Petrochemical Co., Ltd. EPC general contracting	Sinopec Engineering Incorporation 	2014	Power Panel Plug socket	China



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3-3	CNOOC Hainan Natural Gas Co., Ltd.		Hainan Liquefied Gas (LNG) Station Line Project	CNOOC Hainan Natural Gas Co., Ltd.		2014	Power Panel Plug socket Lighting fixture	China
3-4	Ibne Sina Petrochemical Co.		Ibne Sina Petrochemical Co.	Ibne Sina Petrochemical Co.		2018- 2019	Ex d panel Ex Lighting fixture Ex Junction boxes	Iran
4-5	Hualu Engineering		ISBL Up gradation Project	National Refinery Limited Pakistan		2019	Ex d panel Ex Lighting fixture Ex Junction boxes	Pakistan
4-6	China Tianchen Engineering Corporation (TCC)		EPCL PVC EXPANSION PROJECT	Engro Polymer & Chemicals Limited		2019	Ex d panel Ex Lighting fixture Ex Junction boxes	Pakistan
4	PETROBRAS NETHERLANDS B.V		CESSÃO ONEROSA AREA DEVELOPMENT	Petrobras		2017	Ex-proof junction boxes	Brazil
5	GOFSKO		EPF-50 REVAMP-210 MMSCFD CRUDE SECTION WORKS, NORTH KUWAIT	KOC		2018	Ex-proof lighting fixture Ex-proof plug socket	Kuwait
6	HYUNHAI ENGINEERING CO.,LTD		TVEP CFB Power Plant Project in Philippines	Therma Visayas, Inc.		2018	Ex-proof lighting fixture	Philippines



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7	HYUNHAI ENGINEERING CO.,LTD 	UZBEKISTAN GAS TO LIQUID PROJECT (UZGTL)	Oltin Yo'l GTL 	2018-2019	Light fittings	Uzbekistan
8	Thermon 	UZBEKISTAN GAS TO LIQUID PROJECT (UZGTL)	Oltin Yo'l GTL 	2018-2019	Ex-proof switch and lamp	Uzbekistan
9	Schneider 	Replacement of Old Control panels of DESALTER FEED HEATER'S TRAINS IN GC-1 3 4 6 8 11 19 20 21	KOC 	2018-2019	Ex-proof control panel	Kuwait
10	Rukun Al Yaqeen International LL 	MABRUK PROJECT- PR RF	Petroleum Development Oman LLC(PDO) 	2017-2018-2019	Ex-proof zone 1 LED linear type light fittings Ex-proof zone 1 LED flood lighting	Oman
11		SAIF RAWL CPP POWER PLANT	Petroleum Development Oman LLC(PDO) 			
12		YIBAL REJUVENATION PROJECT	Petroleum Development Oman LLC(PDO) 			
13		QAGMELEC Fahud POWER PLANT	Petroleum Development Oman LLC(PDO) 			
14		BURHAN NW SHUAIBA INFILL DEVELOPMENT PHASE-1 PROJECT	Petroleum Development Oman LLC(PDO) 			



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15			SRS ELECTRICAL SYSTEM UPGRADE PROJECT	Petroleum Development Oman LLC(PDO)				
16			Amal Solar Off-Plot Ph II	Petroleum Development Oman LLC(PDO)				
17			Fahud OTSG Electrical Bulk	Petroleum Development Oman LLC(PDO)				
18	S&TC		Oman PDO Wellhead project	Petroleum Development Oman LLC(PDO)		2018	Ex-proof zone 1 LED light fittings and pole	Oman
19	ABB		LIWA	ORPIC		2018	Ex-proof lighting	Oman
20	B&R Ex systems Australia		Inpex Ichthys LNG Project	AP&G		2018	Junction boxes	Australia
21	Globe United FZE		HEAVY OIL LONG TERM TESTING FACILITY (HOLTTF) AT NORTH KUWAIT	KOC		2018	Ex-proof Stainless steel Junction boxes	Kuwait
22	Electrothai Public Company Limited		Esso Lumlukka TAS Replacement Project	ESSO		2018	Ex-proof Control boxes, Stainless steel Junction boxes	Thailand
22- 2	Diamond Key International Limited		ESD System at Esso Lampang Terminal	ESSO		2019	Ex-proof Control boxes,	Thailand



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23	CNOOC-SHELL		CNOOC Huizhou refining and chemical process II	Shell China		2018	Ex-proof plug socket	China
24	Diamond Key International Limited		Benzene Project at Shell Lampang Depot	Shell Thailand		2018	Ex-proof Control Box	Thailand
25	China Petroleum Pipeline Bureau		Extension of Well Gathering System at Badra Oil Field, Republic of Iraq	Gazprom Neft Badra B.V.		2017	Ex-proof lighting ,Panel ,plug socket Total amount(CNY): 554645.00	Iraq
26	China Petroleum Engineering and Construction Corporation		200 Kbopd Production Improvement with 23 wells around CPF3 Field Surface Facilities Project for Production Sustained in 2016	Iraq Halfaya oilfield		2017-2018	Weather-proof Flood light Total amount(CNY): 179300.00 Weather-proof distribution box Total amount(CNY): 94550.00	Iraq
27	China Petroleum Engineering and Construction Corporation		Booster station project of A area Of Turkmen Samantepe	Turkmen Samantepe oilfield		2017-2018	Ex-proof lighting,distribution box,terminal box,calble glands Total amount(CNY): 1978790.00	Turkmanistan
28	China Petroleum Engineering and Construction Corporation		Ahdeb Oil Field Surface Facility Project	Iraqi Ahdeb Oil Field		2017	Ex-proof terminal box Total amount(CNY): 49320.00	Iraq



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29	China Petroleum Engineering and Construction Corporation 	Chad oilfield Project	Chad oilfield Project 	2017	Ex-proof Distribution Box and Operating column And Ex-proof controller	Chad
30	SC Engineering 	NPK Project in Vietnam	JV for TAEKWANG and HU-CHEMS	2017	Panel for Air preheater	Vietnam
31	HYUNHAI ENGINEERING CO.,LTD 	JIMAH EAST POWER 2*1000MW COAL FIRED POWER PLANT	JIMAH EAST POWER SDN BHD 	2017	Ex-proof lighting flitting ,junction boxes etc	Malaysia
32	Gas Generators (Malaysia) Sdn Bhd	SAIPEM N2 GENERATOR(JANGKRIK)	SAIPEM 	2017	Ex-proof Electrical items	Malaysia
33	Gas Generators (Malaysia) Sdn Bhd	SAIPEM N2 GENERATOR(JANGKRIK)	SAIPEM 	2016	Ex-proof switch	Malaysia
34	Gas Generators (Malaysia) Sdn Bhd	PERSIAN GULF-A/COMP SPD		2016	Ex-proof switch	Malaysia
35	Gas Generators (Malaysia) Sdn Bhd	Technip Jangkrik PH2 N2 PACKAGE	Technip 	2016	Ex-proof switch.MCB ETC	Malaysia
36	JMLITE SOLUTIONS 	MM2 & MSM Project,Malaysia		2016	Explosion-proof junction boxes	Malaysia



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37	Pierlite Malaysia Sdn Bhd		Malaysia		2016	Ex-proof Light fixtures,Lighting Switch,panel ,controller;	Malaysia	
38	SPECIAL LIGHT & TOOLS Company Limited		Esso Lumlukka TAS Replacement Project	ESSO		2016	Ex-proof Control boxes,Junction boxes	Thailand
39	SPECIAL LIGHT & TOOLS Company Limited		TPT Petrochemical Lighting Replacement	TPT Petrochemical Public Co.,Ltd.		2016	Ex-proof Light fitting	Thailand
40	SPECIAL LIGHT & TOOLS Company Limited		Truck Loading Area	Thai Agro Energy Public Co.,Ltd.		2016	Ex-proof Light fitting	Thailand
40-1	Ahuskars Grease (Zhangjiagang) Co., Ltd.		150000T/Y Food Ingredients Manufacturing Project	AAK		2016	Ex-proof control panel Weather-proof control panel	China
41	DEISA		Jalisco / Nuevo León / Sonora,Mexico	CEMEX		2016	Ex-proof Control boxes	Mexico
42	COFEL.Srl		E.N.I. S.P.A. – SANNAZARO	ENI		2016	Ex-proof Light fitting (LED)	Italy
43	JUAN KUANG		PUB government Chua Chu Kang Pumping station	PUB government, Singapore		2016	Ex-proof fluorescent lighting	Singapore



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44	Shimada Electric(Thailand) Co.,Ltd		Rock salt exploitation and processing project		2016	Local control station	Thailand
45	MALAYSIA MARINE AND HEAVY ENGINEERING SDN. BHD.		Fabrication of E6DP-A Substructure and Topside	SARAWAK SHELL BERHAD	2015	Light fixtures,cable grands,Junction box;	Malaysia
46	Doel Corp.		Oil-Tanker / HOSE HANDLING CRANE PROJECT .	Daewoo Shipbuilding & Marine Engineering		2015	Explosion-proof control station
47	Doel Corp.		Oil-Tanker / ACCOMODATION LADDER .	Hyundai Heavy Industries		2015	Explosion-proof control station
48	Rukun Al Yaqeen International LLC		PDO Ghaba North Project	Petroleum Development Oman LLC		2015	Ex light fitting
49	China Petroleum Engineering&Construction Cor.		Shymkent Oil refinery modernization	PetroKazakhstan Oil Products Company		2015	Ex switch
50	DEISA		Cemex	Cemex		2015	Ex switch, light fitting



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51	ETE ENERJI				2015	Explosion-proof GRP light CZ0865	Turkey
52	NAM BUK ELECTRIC Co.,Ltd.		KOC		2015	Explosion-proof GRP light CZ0876	Kuwait
53	PT SURYA CAKRA MANDIRI				2015	Explosion-proof light CZ0873/4, weather-proof light M0879	Indonesia
54	Brave Engineering Ltd., Thailand		Siam global chemicals new plant project	Siam Chemical Global 	2014	Explosion-proof LED aluminum-alloy light, LED fluorescent light, plug and socket, exit light, distribution box	Thailand
55	B&R Ex systems Australia		Ghaba north Re Development	Petroleum Development Oman LLC 	2014	Explosion protected GRP junction boxes F20 series, Ex e terminal enclosure	Oman
56	Rukun Al Yaqeen Internationa		I Yibal A Fwko Pump Porject	Petroleum Development Oman LLC 	2014	Explosion-proof floodlight, explosion-proof street light	Oman
57	B&R Ex systems Australia		Inpex Ichthys LNG Project	AP&G	2014	Explosion protected GRP junction boxes F20 series	Australia
58	PT SURYA CAKRA MANDIRI		PT WILMAR OIL REFINERY	PT WILMAR 	2014	Full plastic weather-proof fluorescent light fitting, terminal box	Indonesia



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59	COFEL Srl	ENI Refienry replacement Bari	ENI 	2014	Explosion-proof LED lighting	Italy
60	Zicome Equipment Pte Ltd	May Hnin Lwin Angela	May Hnin Lwin Angela	2014	Explosion-proof street light CZ0872, explosion-proof GRP light CZ0865	Bangladesh
61	China Petro Sichuan petroleum administrative bureau	Bagtiyarlyk Contract Area, Natural Gas Plant No.2	Amu Darya River Natural Gas Co.,Ltd. 	2013- 2012	Ex control station	
62	Zicome Equipment Pte Ltd	Bangladesh oil refinery project	Petrobangla 	2012	Ex street light fitting	Bangladesh
63	ALESUR Spain	BP oil Refineria de Castellon S.A	BP 	2012	Ex light fitting	Spain
64	China Petroleum Engineering&Constru ction Cor. 	Jingbian Energy and Chemical Comprehensive Utilization Industrial Park Project	CNPC 	2011	Power Panel Lighting fixture	China
65	Sichuan Petroleum Administration Materials Corporation 	Turkmenistan South Yolotan 100*108m3/a Commodity Gas Capacity Construction Project	Turkmenistan Oil	2012	Lighting fixture	Turkmenistan



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66	CNPC Sichuan Petrochemical Co., Ltd.		Million Tons Ethylene Project	CNPC Sichuan Petrochemical Co., Ltd.		2009-2010	Lighting fixture	China
67	CNPC Sichuan Petrochemical Co., Ltd.		CNPC Sichuan Petrochemical 10 million tons/year refining and 800,000 tons/year	CNPC Sichuan Petrochemical Co., Ltd.		2009	Power panel Socket plug Lighting fixture	China
68	CNPC Guangxi Petrochemical Co., Ltd.		Guangxi Petrochemical 10 million tons / year refinery project	CNPC Guangxi Petrochemical Co., Ltd.		2008	Power panel Socket plug Lighting fixture	China