



Products Type-chosing Manual
2019

Company Profile

Helon Explosion-Proof Electric Co., Ltd. is a national high & new technology enterprise, which is located in the production base of China explosion-proof electric appliances-Yueqing, Zhejiang, with an occupation of over 50,000m² and an edifice of over 100,000m². Our company has been authorized by ISO9001, ISO14001 and OHSAS18001 certificates, as well as export entitlement, and part of products have authorized by ATEX and IECEX. Meanwhile, Helon is a qualified supplier for Sinopec, CNPC, CNOOC, CNAF, etc. and has a close cooperation with many international enterprises, trading companies and research institutions.

Helon is member of China's Explosion-proof Electrical Equipment Standardization Technical Committee (SAC/TC9), the vice director of the explosion-proof electric appliances branch of China Electrical Equipment Industrial Association (CEEIA), a unit of qualified industrial products with AA level and authorized by China Electric Equipment Industry Association with credible quantity. The company wins some honorary titles, such as Zhejiang technology-based medium-sized enterprise, Zhejiang model enterprise to patents, ZheJiang high-technology R&D center, bank's AAA level credible enterprise and contract and accredit honoring unit, etc.



Technology

We manufacture with advanced equipment and such automatic and semi-automatic technology as die-casting, machining, spray coating, etc. The testing center has equipped with a large amount of advanced test equipment, including distribution photometer, high-low temperature alternating temperature humidity trial chamber, salt spray trial-box, dust trial chamber, protection trial equipment, etc. Our company is one of the manufacturing companies with the most advanced equipment and excellent outfits.

Product

Our company has a strong technical force, as well as a group of secondary and senior technicians, cooperating with many national research institutions. The explosion-proof products we've developed are of an advanced level among similar products in domestic, honored with more than 90 kinds of patents. What's more, among these products (of all-plastic, stainless steel, cast aluminum, etc.) with novel structure, stable performance and strong function, the energy-efficient lamp is listed in "National Torch Program" and the automatic suspended explosion lamp is listed in "National Spark Program", and they well meet the requirements of explosion-proof, anti-corrosion, green, energy-saving, ultra-long life (50,000 to 100,000 hours), etc., to be leading products in explosion-proof lighting and electric appliances field.

We manufacture to meet the necessities in the following industries, such as petroleum, chemical, metallurgy, electricity, shipping, medicine, textile, wine-making, aerospace, military, fire-fighting, etc. by our hundreds of explosion-proof products.

Aim

We aim at "Making quality goods of explosion-proof, building eternal brands of explosion-proof". We expect to cooperate with people of all circles heartily, looking for a vigorous and prosperous future mutually.

>
Technology Impetus the world

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www.helonex.com

Advanced production equipment, professional technical personnel, scientific manufacturing process, enforce the ISO9001 quality standard strictly, the "management, quality, efficiency" is always throughout the each link in operation.



- ① Die-casting shop
- ② Metalworking shop
- ③ Bakelite shop
- ④ Die casting plastics shop

- ⑤ Surface impeller blasting treatment shop
- ⑥ laser cutting machine
- ⑦ laser bending machine
- ⑧ Fitter shop

- ⑨ CNC machining center
- ⑩ CNC planer type milling machine
- ⑪ Automatic plastic spraying workshop
- ⑫ Assembly shop
- ⑬ Mould shop

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The Perfection Because of Our Manufacturing



- ① Hydraulic pressure testing
- ② Leaf of the fan dynamic balancing testing
- ③ Leaf of fan over-speed testing
- ④ Concussion testing
- ⑤ Salt atmosphere test room
- ⑥ Electricity performance checkout
- ⑦ High and low test

- ⑧ Sand and dust test room
- ⑨ Protection test room
- ⑩ Resistance testing
- ⑪ Electric parameters testing
- ⑫ Load testing
- ⑬ High-voltage testing

- ⑭ Omnibus test room
- ⑮ Lamp and Lanterns aging test room
- ⑯ Rubber hardness testing
- ⑰ Integrating Sphere
- ⑱ Dark chamber
- ⑲ Lamp and lanterns' light distribution curve testing

HLBD05-Series explosion-proof LED lightings



(I Type)



(II Type)



Net cover optional

HLBD05-T Series explosion-proof LED lightings(Projecting type)



Net cover optional

HLBT55-Series explosion-proof LED lightings (projecting type)



Net cover optional

- ◊ Aluminum alloy enclosure, high pressure electrostatic plastic sprayed surface, stainless steel exposed fastener;
- ◊ Toughened glass stands 4J impact ;
- ◊ Silicon rubber sealing strip;
- ◊ Separate light source cavity, electrical and wiring cavity, just open the wiring cavity while connecting wire;
- ◊ The lamp body use wireless connection structure with installation accessories, all installation mode accessories can be interchangeable and universal, easy for installation and maintenance;
- ◊ Several Cree LED, long life span up to 50000 hours;
- ◊ Wide voltage input(90~305V), constant power output, $\text{COS}\Phi \geq 0.95$, own constant flow, open circuit, short circuit, surge protection and so on function;
- ◊ II type lamp has a larger range of illumination;
- ◊ T-type LED angle: 30°, 45°, 60°;
- ◊ Installation Mode: G-Pendant pole type, X-Ceiling type, D3-Pendant chain type, D1-Pendant chain type(Open side cover), B-Wall type (adjustable angle), B1-Wall type 30°, B2-Wall type 90°, F-Flange type, h-Fence type;
- ◊ Entry Thread: G3/4, NPT3/4, M25×1.5;
- ◊ Rated Voltage(V): 220/230*/240*;
- ◊ Rated Power(W): 20, 25, 30, 45, 50, 60, 70, 85, 100, 120.

- ◊ II2 G Ex db op is IIC T6/T5 Gb
- ◊ II2 D Ex tb op is IIIC T80°C Db
- ◊ II2 D Ex tb op is IIIC T95°C Db

Zone 1 and Zone 2
Zone 21 and Zone 22

IP66

T6(T80°C):-40°C ≤ Ta ≤ +40°C
T5(T95°C):-40°C ≤ Ta ≤ +55°C

*: Proposed while ordering

A-1

- ◊ Aluminum alloy enclosure, high pressure electrostatic plastic sprayed surface, stainless steel exposed fastener;
- ◊ Toughened glass stands 4J impact ;
- ◊ Silicon rubber sealing strip;
- ◊ Separate light source cavity, and wiring , just open the wiring cavity while connecting wire;
- ◊ The lamp body use wireless connection structure with installation accessories, all installation mode accessories can be interchangeable and universal, easy for installation and maintenance;
- ◊ Several Cree LED, long life span up to 50000 hours;
- ◊ Wide voltage input(90~305V), constant power output, $\text{COS}\Phi \geq 0.95$, own constant flow, open circuit, short circuit, surge protection and so on function;
- ◊ LED angle: 30°, 45°, 60°;
- ◊ Installation Mode: T-flood light;
- ◊ Entry Thread: G3/4, NPT3/4, M25×1.5;
- ◊ Rated Voltage(V): 220/230*/240*;
- ◊ Rated Power(W): 20, 25, 30, 45, 50, 60, 70, 85, 100, 120.

- ◊ II2 G Ex db op is IIC T6/T5 Gb
- ◊ II2 D Ex tb op is IIIC T80°C Db
- ◊ II2 D Ex tb op is IIIC T95°C Db

Zone 1 and Zone 2
Zone 21 and Zone 22

IP66

T6(T80°C):-40°C ≤ Ta ≤ +40°C
T5(T95°C):-40°C ≤ Ta ≤ +55°C

*: Proposed while ordering

A-2

- ◊ Aluminum alloy enclosure, high pressure electrostatic plastic sprayed surface, stainless steel exposed fastener;
- ◊ Toughened glass stands 4J impact ;
- ◊ Silicon rubber sealing strip;
- ◊ Separate light source cavity, electrical and wiring cavity, just open the wiring cavity while connecting wire;
- ◊ Several Cree LED, long life span up to 50000 hours;
- ◊ Wide voltage input(90~305VAC/127~250VDC), constant power output, $\text{COS}\Phi \geq 0.95$, own constant flow, open circuit, short circuit, surge protection and so on function;
- ◊ LED angle: 30°, 60°, 90°;
- ◊ Installation Mode: G-Pendant pole type, B-Bracket type, F-Flange type, h-Fence type ;
- ◊ Entry Thread: M25×1.5, M20×1.5,NPT3/4,NPT1/2;
- ◊ Rated Voltage(V): 110/120/220/230/240/277;
- ◊ Rated Power(W): 150, 200, 240.

- Ex d IIC T5/T4 Gb
- Ex d A21 IP66 T95/T130°C

Zone 1 and Zone 2
Zone 21 and Zone 22

IP66

T5(T95°C):-40°C ≤ Ta ≤ +40°C
T4(T130°C):-40°C ≤ Ta ≤ +55°C

A-3

HLBD06-F Series explosion-proof LED lightings



Net cover optional

- ◇ Aluminum alloy enclosure, high pressure electrostatic plastic sprayed surface, stainless steel exposed fastener;
- ◇ Toughened glass stands 4J impact ;
- ◇ Silicon rubber sealing strip;
- ◇ Separate light source cavity, electrical and wiring cavity, just open the wiring cavity while connecting wire;
- ◇ Several osram or philips LED, long life span up to 50000 hours;
- ◇ Wide voltage input(90-305VAC/127-250VDC), constant power output, $\text{COS } \Phi \geq 0.95$, own constant flow, open circuit, short circuit, surge protection and so on function;
- ◇ Lamp has a larger range of illumination;
- ◇ Installation Mode: G-Pendant pole type, B-Bracket type, F-Flange type, h- Fence type ;
- ◇ Entry Thread: M25×1.5;
- ◇ Rated Voltage(V): 110/120/220/230/240/277;
- ◇ Rated Power(W): 150, 200, 240, 300.

Ex d IIC T6/T5/T4 Gb
Ex tD A21 IP66 T80/T95/T130°C
Zone 1 and Zone 2
Zone 21 and Zone 22

IP66

150, 200W:
T6(T80°C)-40°C ≤ Ta ≤ +40°C
T5(T95°C)-40°C ≤ Ta ≤ +55°C

240, 300W:
T5(T95°C):-40°C ≤ Ta ≤ +40°C
T4(T130°C):-40°C ≤ Ta ≤ +55°C

A-4

HLBD56-Series explosion-proof LED lightings



Net cover optional

- ◇ Aluminum alloy enclosure, high pressure electrostatic plastic sprayed surface, stainless steel exposed fastener;
- ◇ Toughened glass stands 4J impact;
- ◇ Silicon rubber sealing strip;
- ◇ Separate light source cavity, and wiring , just open the wiring cavity while connecting wire;
- ◇ The lamp body use wireless connection structure with installation accessories, all installation mode accessories can be interchangeable and universal, easy for installation and maintenance;
- ◇ Several LEDs, life span up to 50000 hours;
- ◇ Anti-dazzle reflector, large illumination angle, and even luminance;
- ◇ Wide voltage input(150~260V), constant power output, $\text{COS } \Phi \geq 0.95$, own constant flow, open circuit, short circuit, surge protection and so on function;
- ◇ Installation Mode : G-Pendant pole type , D1- Pendant chain type(Open side cover), B1-Wall type 30° , B2-Wall type 90° , F-Flange type, h- Fence type;
- ◇ Entry Thread: G3/4, NPT3/4, M25×1.5;
- ◇ Rated Voltage(V): 220/230*/240*;
- ◇ Rated Power (W): 20, 30, 40, 50, 60, 70, 80, 100, 120;
- ◇ Charging time: 24h;
- ◇ Emergency time: 60, 90min.

Ex d II C T6 Gb
Ex tD A21 IP66 T80°C

Zone 1 and Zone 2
Zone 21 and Zone 22

IP66

*: Proposed while ordering

A-5

HLBD57-Series explosion-proof LED lightings(Radar sensing distance)



Net cover optional

- ◇ Aluminum alloy enclosure, high pressure electrostatic plastic sprayed surface, stainless steel exposed fastener;
- ◇ Toughened glass stands 4J impact;
- ◇ Silicon rubber sealing strip;
- ◇ Separate light source cavity, electrical wiring cavity, just open the wiring cavity while connecting wire;
- ◇ The lamp body use wireless connection structure with installation accessories, all installation mode accessories can be interchangeable and universal, easy for installation and maintenance;
- ◇ Several LEDs, life span up to 50000 hours;
- ◇ Anti-dazzle reflector, large illumination angle, and even luminance;
- ◇ Adhesive sealing customized power supply, wide voltage input, constant power output, $\text{COS } \Phi \geq 0.95$, own constant flow, open circuit, short circuit, surge protection and so on function;
- ◇ Intelligent dimming : perception of personnel or equipment after being moved within the scope of monitoring, the brightness turn to 20% (0%) ~100 % range of lighting regulation instantly, personnel or equipment left after delaying 30~120s, the lamp brightness restore to 20% (0%);
- ◇ High induction ranges : the detection zone over a radius of 10 meters, sensitive sensor radius of more than 5 meters, sensors angle than degrees;
- ◇ Lighting sensors status is not affected by ambient temperature,lighting,noise, dust, smoke , rain or snow and so on environment;
- ◇ Installation Mode: G-Pendant pole type, X-Ceiling type, D3-Pendant chain type, D1- Pendant chain type (Open side cover) , F-Flange type, h- Fence type, B-Wall type(adjustable angle), B1-Wall type 30° , B2-Wall type 90°;
- ◇ Entry Thread: G3/4, NPT3/4, M25X1.5;
- ◇ Rated Voltage(V): 220/230*/240*;
- ◇ Rated Power (W): 20, 30, 40, 50, 60, 70, 80, 100;
- ◇ Charging time: 24h;
- ◇ Emergency time: 60, 90min.

Ex d II C T6 Gb
Ex tD A21 IP66 T80°C

Zone 1 and Zone 2
Zone 21 and Zone 22

IP66

*: Proposed while ordering

A-6

HLBD55-C/D Series explosion-proof LED lightings



Net cover optional

- ◇ Aluminum alloy enclosure, high pressure electrostatic plastic sprayed surface, stainless steel exposed fastener;
- ◇ Anti-dazzle cover, 360 degree illumination angle, and even luminance;
- ◇ Silicon rubber sealing strip;
- ◇ Air cooling shroud , small size, light weight;
- ◇ C-type Lamp: Separate source cavity, wiring cavity, just open the wiring cavity while connecting wire;
- ◇ D-type Lamp: Separate light source cavity, electrical and wiring cavity, just open the wiring cavity while connecting wire; The lamp body use wireless connection structure with installation accessories, all installation mode accessories can be interchangeable and universal, easy for installation and maintenance;
- ◇ Several LEDs, life span up to 50000 hours;
- ◇ Wide voltage input(150~260V), constant power output, $\text{COS}\Phi \geq 0.95$, own constant flow, open circuit, short circuit, surge protection and so on function;
- ◇ Installation Mode: G-Pendant pole type, X-Ceiling type, D3-Pendant chain type, D1- Pendant chain type(Open side cover), F-Flange type h- Fence type, B-Wall type(adjustable angle), B1-Wall type 30° , B2-Wall type 90°;
- ◇ Entry Thread: G3/4, NPT3/4, M25X1.5;
- ◇ Rated Voltage (V): 220/230*/240*
- ◇ Rated Power (W): 20, 30, 40, 50;
- ◇ Charging time (h): 24;
- ◇ Emergency time: 60, 90min.

Ex d II C T6 Gb
Ex tD A21 IP66 T80°C

Zone 1 and Zone 2
Zone 21 and Zone 22

IP66

*: Proposed while ordering

A-7

BYS51- Series explosion-proof light fittings for fluorescent lamp



GRP+PC

HLBY01-Series explosion-proof LED lightings(AL)



- ◇ Stands 7J shock GRP enclosure;
- ◇ Stands 4J shock PC lamp cover, anti-dazzle design;
- ◇ Silicon rubber sealing strip;
- ◇ Central locking fine multi - point locking;
- ◇ Explosion-proof electronic ballast, own short circuit and open circuit protection function, wide voltage (150~250V) input, and constant power output, $\text{COS}\Phi \geq 0.98$;
- ◇ Optional explosion-proof LED tube;
- ◇ Built-in safety interlock switch, the cover off automatically
- ◇ Installation mode: G-Pendant pole type, X-Ceiling type, B-wall type, D- Pendant chain type, F-Flange type, h- Fence type;
- ◇ Inlet and outlet : $\Phi 26\text{mm}/\text{M}25\times 1.5$;
- ◇ Rated Voltage (V): 220, 230*, 240*
- ◇ Power(w)* number of tube:
T8: 18×(1~2)(J), 36×(1~2)(J),
T5: 14×(1~2)(J), 28×(1~2)(J),
LED: 9×(1~2)(J), 18×(1~2)(J);
- ◇ Charging time/emergency time: 24h/90min.

T8/T5 tube:
18×(1~2)/36×(1~2)
Ex de mb II C T4 Gb
Ex tD A21 IP65 T80°C

LED Tube:
9×(1~2)/18×(1~2)
Ex de (mb) II C T6 Gb
Ex tD A21 IP65 T80°C

Zone 1 and Zone 2
Zone 21 and Zone 22

IP65

*: Proposed while ordering

Note: See P22 for explosion-proof LED tubes

A-8

- ◇ Aluminum alloy enclosure, Both ends of the cover high-pressure electrostatic plastic - sprayed surface;
- ◇ Toughened glass stands 4J impact, stainless steel exposed fastener;
- ◇ Silicon rubber sealing strip;
- ◇ Several LEDs, life span up to 50000 hours;
- ◇ Constant power supply ,wide voltage (150~260V) input, constant power output, $\text{COS}\Phi \geq 0.95$;
- ◇ Installation Mode: G-Pendant pole type, X-Ceiling type B-wall type, D- Pendant, chain type, F-Flange type, h- Fence type, Z-derrick type;
- ◇ Anti-falling safety device is optional;
- ◇ Entry Thread : G3/4, M25×1.5;
- ◇ Rated voltage(V): AC220/230*/240*, DC24*/36*;
- ◇ Rated Power(W): 10, 12, 15, 20, 25, 30, 40, 50;
- ◇ Charging time : 24h;
- ◇ Power (w)/emergency time: 12(15/20)/90min, 25(30/30T)/60(90min), 40/45(60min), 50/35(50min).

Ex nR II C T6 Ge
Ex tD A21 IP66 T80°C

Zone 2
Zone 21 and Zone 22

IP66

*: Proposed while ordering

A-9

HLBY02-Series explosion-proof light fittings for fluorescent lamp (Clean)



X-ceiling type



Q-embed type

- ◆ Steel Shell, high voltage electrostatic sprayed surface, or stainless steel plate casing, exposed fastener ;
- ◆ Toughened glass stands 4J impact;
- ◆ Special - open lid and hinge structure;
- ◆ Silicon rubber sealing strip;
- ◆ Explosion-proof electronic ballast, own short circuit and open circuit protection function, wide voltage (150~250V) input, and constant power output, $\text{COS}\Phi \geqslant 0.98$;
- ◆ Optional explosion-proof LED tube;
- ◆ Installation Mode: X-ceiling type, Q-embed type;
- ◆ Inlet: $\Phi 25.5\text{mm}/M25 \times 1.5$;
- ◆ Rated Voltage: 220, 230*, 240*;
- ◆ Power(W)* number of tube:
T5: 14×(1~2)(J), 28×(1~2)(J),
T8: 18×(1~2)(J), 36×(1~2)(J);
LED: 9×(1~2)(J), 18×(1~2)(J);
- ◆ Charging time: 24h;
- ◆ Emergency time: 90/120min.

T5/T8 tube:
Ex e mb II C T4 Gb
Ex tD A21 IP65 T80°C

Explosion-proof LED tube:
Ex d e (mb) II C T6 Gb
Ex tD A21 IP65 T80°C

Zone 1 and Zone 2
Zone 21 and Zone 22

IP65

*: Proposed while ordering

Note: See P22 for explosion-proof
LED tubes

A-10

BAY51-(E) Series explosion-proof light fittings for fluorescent lamp(AL)



- ◆ Aluminum alloy enclosure, high pressure electrostatic plastic sprayed surface, stainless steel exposed fastener;
- ◆ Toughened glass tube;
- ◆ Special Lamp holder , quickly replace the , ballast;
- ◆ Installation Mode: G- Pendant pole type
X-Ceiling type B-wall type D- Pendant chain type
F-Flange type h- Fence type T-adjustable type;
- ◆ Entry Thread: G1/2;
- ◆ Rated Voltage (V): 220/230*/240*;
- ◆ Power(W)*number of tube :
T8: 18×1(J), 18×2(J), 36×1(J), 36×2(J),
T5: 14×1(J), 14×2(J), 28×1(J), 28×2(J),
LED: 9×1(J), 9×2(J), 18×1(J), 18×2(J);
- ◆ Charging time/emergency time: 24h/90min.

T8 Ballast:
Ex d e II B T5 Gb
Ex tD A21 IP66 T95°C

T5/LED tube:
Ex de II B T6 Gb
Ex tD A21 IP66 T80°C

Zone 1 and Zone 2
Zone 21 and Zone 22

IP54, IP66*

*:Proposed while ordering

A-11

BAD82-Series explosion-proof lightings



Net cover optional

- ◆ Aluminum alloy enclosure, high pressure electrostatic plastic sprayed surface, stainless steel exposed fastener;
- ◆ Prism anti-glare toughened glass stands 4J impact;
- ◆ Silicon rubber sealing ring;
- ◆ Separate light source cavity, electrical and wiring cavity, just open the wiring cavity while connecting wire;
- ◆ The lamp body use wireless connection structure with installation accessories, all installation mode accessories can be interchangeable and universal, easy for installation and maintenance;
- ◆ High pure reflector and lampshade , surface anodized;
- ◆ Built in electric ballast, with Compensation Capacitor $\text{COS}\Phi \geqslant 0.9$;
- ◆ BAD82-X use xenon lamp lighting, long life up to over 10000 hours, color rendering over 80, high efficiency, energy saving and environment friendly;
- ◆ BAD82-T use Ceramic metal halide light source, long life up to 12000hours, color rendering over 80, high efficiency over 87, low radiation, high efficiency and energy saving;
- ◆ Automatic suspension security structure fast and safe replacement of light;
- ◆ Installation Mode: G-Pendant pole type, X-Ceiling type, D3- Pendant chain type, F-Flange type, h- Fence type, B-wall type(adjustable angle), B1-wall type30°, B2-wall type 90°;
- ◆ Entry Thread: G3/4, NPT3/4, M25X1.5;
- ◆ Rated Voltage (V): 220/230*/240*;
- ◆ Rated Power (W):
Metal halide lamp: 70, 100, 150, 175, 250, 400;
High Pressure Sodium Lamp: 70, 100, 110, 150, 250, 400;
High pressure mercury lamp: 80, 125, 175, 250, 400;
Xenon light: 50, 100, 110;
Ceramic metal halide light: 35, 70, 150.

Ex d II C T4 Gb
Ex tD A21 IP66 T130°C

Ex d II C T3 Gb
Ex tD A21 IP66 T195°C

Zone 1 and Zone 2
Zone 21 and Zone 22

IP66

T4(T130°C): ≤150W
T3(T195°C): ≥N150, 175, 250,
400W

*:Proposed while ordering

A-12

BAD83-Series explosion-proof lightings



Net cover optional

- ◇ Aluminum alloy enclosure, high pressure electrostatic plastic sprayed surface, stainless steel exposed fastener
- ◇ Prism anti-glare toughened glass stands 4J impact;
- ◇ Silicon rubber sealing strip;
- ◇ Separate light source cavity, electrical and wiring cavity, just open the wiring cavity while connecting wire;
- ◇ The lamp body use wireless connection structure with installation accessories, all installation mode accessories can be interchangeable and universal, easy for installation and maintenance;
- ◇ Automatic suspension security structure, fast and safe replacement of light source;
- ◇ Metal halide lamp 70, 100W with emergency fitting
- ◇ Installation Mode: G-Pendant pole type, X-Ceiling type, D3- Pendant chain type, F-Flange type, h- Fence type, B-wall type(adjustable angle), B1-wall type30°, B2-wall type 90°, M-road street type;
- ◇ Entry Thread: G3/4, NPT3/4, M25 × 1.5;
- ◇ Rated Voltage(V): 220/230/240*;
- ◇ Rated Power(W):
Metal halide lamp: 70, 100, 150, 175, 250, 400;
High Pressure Sodium Lamp: 70, 100, 110, 150, 250, 400;
High pressure mercury lamp: 80, 125, 175, 250, 400;
Self- mercury lamp: 125, 160, 250, 450;
Energy-saving light: 8, 12, 15, 18, 20, 22, 24, 32, 36, 45, 55, 65, 68, 80, 85;
LED: 5, 7, 9, 10.5, 13;
Incandescent lamp: 25, 40, 60.

- Ex d IIC T6 Gb
- Ex tD A21 IP66 T80°C
- Ex d IIC T4 Gb
- Ex tD A21 IP66 T130°C
- Ex d IIC T3 Gb
- Ex tD A21 IP66 T195°C

Zone 1 and Zone 2
Zone 21 and Zone 22

IP66

- T6(T80°C): Energy-saving light , LED
T4(T130°C): ≤150W
T3(T195°C): >150, N150W

*:Proposed while ordering

Note: Ballast additionally of HID lamp

A-13

BAD52(56)- Series explosion-proof lightings



- ◇ Aluminum alloy enclosure, high pressure electrostatic plastic sprayed surface, stainless steel exposed fastener;
- ◇ Toughened glass cover;
- ◇ Silicon rubber sealing ring;
- ◇ Special structure, quick change light source;
- ◇ Installation mode: G-pendant pole type, X-ceiling type, a-handheld type, b-hanger type, B1-wall type30°, B2-wall type 90° , F-Flange type, h- Fence type;
- ◇ Entry Thread: G3/4;
- ◇ Rated Voltage (V): 220/230*/240*/36*;
- ◇ Rated Power (W):
Metal halide lamp: 70, 100, 150, 175, 250, 400;
High Pressure Sodium Lamp: 70, 100, 110, 150, 250, 400;
Self-ballasting mercury lamp: 125, 160, 250, 450;
High pressure mercury lamp: 80, 125, 175, 250, 400;
Energy-saving light: 15 ~ 45, 55, 85, 105;
Incandescent lamp: 40, 60, 100, Voltage:36V: 40, 60.

- BAD52(56):
- Ex d IIB/IIC T6 Gb
- Ex tD A21 IP66 T80°C
- Ex d IIB/IIC T4 Gb
- Ex tD A21 IP66 T130°C
- Ex d IIB/IIC T3 Gb
- Ex tD A21 IP66 T195°C

Zone 1 and Zone 2
Zone 21 and Zone 22

IP66

- T6(T80°C): Energy-saving light
T4(T130°C): ≤125W
T3(T195°C): ≥150W

*: Proposed while ordering

A-14

HLBT03-Series explosion-proof LED floodlights



- ◇ Aluminum alloy enclosure, high pressure electrostatic plastic sprayed surface, stainless steel exposed fastener;
- ◇ Toughened glass stands 4J impact;
- ◇ Silicon rubber sealing strip;
- ◇ Several LED, life up to over 50000 hours;
- ◇ Wide voltage (180~265V) input, constant power output, $\text{COS}\phi \geq 0.98$;
- ◇ Direct supply of LED photoelectric module structure, separated optical lens, main cavity, and connection cavity, just open the connection cavity while connecting;
- ◇ Module structure, assembled as needed;
- ◇ Special angle adjusting mechanism, user can adjust the irradiation angle on the spot;
- ◇ Installation Mode: B-stanchion type, M-street lamp type
- ◇ Inlet: Φ26mm/M20×1.5/M25×1.5;
- ◇ Rated Voltage(V): 220/230*/240*;
- ◇ Rated Power (W): 50, 100, 150, 200, 250.

- Ex II2 G Ex db eb op is IIB T6/T5 Gb
- Ex II2 G Ex db eb op is IIB+H2 T6/T5 Gb
- Ex II2 D Ex tb op is IIIC T80°C Db
- Ex II2 D Ex tb op is IIIC T95°C Db

Zone 1 and Zone 2
Zone 21 and Zone 22

IP66

- T6(T80°C): -40°C ≤ Ta ≤ +40°C
T5(T95°C): -40°C ≤ Ta ≤ +55°C

*: Proposed while ordering

A-15

HLBT53-II Series explosion-proof LED floodlights



- ◇ Aluminum alloy enclosure, high pressure electrostatic plastic sprayed surface, stainless steel exposed fastener;
- ◇ Toughened glass stands 4J impact;
- ◇ Silicon rubber sealing strip;
- ◇ Separate light source cavity, electrical and wiring cavity, just open the cavity while connecting wire;
- ◇ Several LEDs, life up to over 50000 hours;
- ◇ Wide voltage (150~265V) input, constant power output, $\text{COS}\Phi \geq 0.95$;
- ◇ Secondary optical design of reflector, even illumination;
- ◇ Special angle adjusting mechanism, user can adjust the irradiation angle on the spot;
- ◇ Installation Mode: B-stanchion type, M-street lamp type;
- ◇ Entry Thread: G3/4;
- ◇ Rated Voltage (V): 220/230*/240*;
- ◇ Rated Power (W): 75, 90, 100, 135, 150, 180, 200.

Ex d IIB T6 Gb
Ex d IIIB+H2 T6 Gb
Ex tD A21 IP66 T80°C

Zone 1 and Zone 2
Zone 21 and Zone 22

IP66

*: Proposed while ordering.

A-16

BAT51-Series explosion-proof floodlights



- ◇ Aluminum alloy enclosure, high pressure electrostatic plastic sprayed surface, stainless steel exposed fastener;
- ◇ Toughened glass stands 4J impact;
- ◇ Silicon rubber sealing strip;
- ◇ High light body horizontal rotated 360 degrees and elevation adjustable within +90 ~ -60°C;
- ◇ High pure aluminum reflector, anodic oxidation on the surface, high glisten rate;
- ◇ Projection distance greater than 150 meters;
- ◇ Installation Mode: X-ceiling type, S-seat type;
- ◇ Entry Thread: G3/4, NPT3/4, M25X1.5;
- ◇ Rated Voltage(V): 220/230*/240*;
- ◇ Rated Power(W):
Metal halide lamp: 70, 100, 150, 175, 250, 400;
High Pressure Sodium Lamp: 70, 100, 110, 150, 250, 400;
Xenon lamp: 50, 70, 100.

Ex d II B T3 Gb(≤400W)
Ex d II C T3 Gb(≤400W)
Ex tD A21 IP66 T195°C(≤400W)
Ex d II B T4 Gb(xenon lamp)
Ex d II C T4 Gb(xenon lamp)
Ex tD A21 IP66 T130°C(xenon lamp)

Zone 1 and Zone 2
Zone 21 and Zone 22

IP66

*: Proposed while ordering.

A-17

BAT52-Series explosion-proof floodlights



Net cover optional

- ◇ Aluminum alloy enclosure, high pressure electrostatic plastic sprayed surface, stainless steel exposed fastener;
- ◇ Toughened glass stands 4J impact;
- ◇ The lamp body can be installed horizontally or wall-mounted, adjustable from 45 ~ 90°;
- ◇ The side opening, quick replacement of light sources;
- ◇ High orange diffuse reflection plate can make light soften, large irradiation angle;
- ◇ Installation Mode: B-stanchion type, M-street lamp type;
- ◇ Entry Thread: G3/4;
- ◇ Rated Voltage(V): 220/230*/240*;
- ◇ Rated Power (W):
Metal halide lamp: 70, 100, 150, 175, 250, 400;
High Pressure Sodium Lamp: 70, 100, 110, 150, 250, 400.

Ex d(e) IIB T4 Gb(≤150W)
Ex d(e) IIC T4 Gb(≤150W)
Ex tD A21 IP66 T130°C(≤150W)
Ex d(e) IIB T3 Gb(≤400W)
Ex d(e) IIC T3 Gb(≤400W)
Ex tD A21 IP66 T195°C(≤400W)

Zone 1 and Zone 2
Zone 21 and Zone 22

IP66

*: Proposed while ordering

A-18

BAT52-II Series explosion-proof floodlights (Stainless steel enclosure)



- ◇ Square stainless steel enclosure, nice figure and stainless steel out fastener;
- ◇ Toughened glass stands 4J impact;
- ◇ Silicon rubber sealing strip;
- ◇ The lamp body can be installed horizontally or wall-mounted, adjustable from 45 ~ 90°;
- ◇ High orange diffuse reflection can make light soften, large irradiation angle;
- ◇ Inlet: Φ26mm/M25×1.5;
- ◇ Rated voltage(V): 220/230*/240*;
- ◇ Rated Power(W):
Metal halide lamp: 175, 250, 400, 1000;
High Pressure Sodium Lamp: 150, 250, 400, 1000.

Ex nR II T4 Ge(≤250W)
Ex tD A21 IP66 T130°C(≤250W)
Ex nR II T3 Ge(400W)
Ex tD A21 IP66 T190°C(400W)
Ex nR II T2 Ge(1000W)
Ex tD A21 IP66 T290°C(1000W)

Zone 2
Zone 21 and Zone 22

IP66

*: Proposed while ordering

A-19

BAZ51-Series explosion-proof ballasts



◊ Aluminum alloy enclosure, high pressure electrostatic plastic sprayed surface, stainless steel exposed fastener;	Ex d II C T6 Gb Ex tD A21 IP66 T80°C
◊ Silicon rubber sealing strip;	Zone 1 and Zone 2
◊ Upon request with compensator $\text{COS } \phi \geq 0.9$;	Zone 21 and Zone 22
◊ Entry Thread: G3/4;	
◊ Rated Voltage (V): 220/230*/240*;	IP66
◊ Rated Power(W):	*: Proposed while ordering
Metal halide lamp: 70, 100, 150, 175, 250, 400;	
High Pressure Sodium Lamp: 70, 100, 110, 150, 250, 400;	
High pressure mercury lamp: 80, 125, 175, 250, 400.	

A-20

BAK51- II E Series explosion-proof tank inspection vesel light fittings



◊ Aluminum alloy enclosure, high pressure electrostatic plastic sprayed surface, stainless steel exposed fastener;	Ex d IIC T6 Gb Ex tD A21 IP66 T80°C
◊ Toughened glass stands 4J impact;	Zone 1 and Zone 2
◊ LED lighting, life span up to 50000 hours;	Zone 21 and Zone 22
◊ Built-in Switch is optional , touch on, off delay shutdown these two control modes, 5, 10min delay time;	
◊ Used for chemical reaction vessel, or a small range for spot lighting;	IP66
◊ Entry Thread: G1/2;	
◊ Rated Voltage(V): 12/24/36/110/220/230*/240*;	
◊ Rated power (W): 6, 9.	*: Proposed while ordering

LED

A-21

BBJ-Series explosion-proof audio and visual caution spotlight fittings



(I type/90dB)

Net cover optional

◊ Aluminum alloy enclosure, high pressure electrostatic plastic sprayed surface, stainless steel exposed fastener;	Ex d ib II C T6 Gb Ex tD A21 IP66 T80°C
◊ Toughened glass stands 4J impact	Zone 1 and Zone 2
◊ Audible and visual alarm, the lamp own red, blue, yellow, green color for your option;	Zone 21 and Zone 22
◊ LED lighting;	
◊ Entry Thread: G3/4;	IP66
◊ Rated Voltage(V): AC/DC:12/24;	
AC: 36/110/220/230*/240*;	
◊ Voice Strength(dB): 90, 105;	
◊ Rated power(W): 5.	*: Proposed while ordering

A-22

BBJ-JD Series explosion-proof caution spotlight fittings



Net cover optional

◊ Aluminum alloy enclosure, high pressure electrostatic plastic sprayed surface, stainless steel exposed fastener;	Ex d IIC T6 Gb Ex tD A21 IP66 T80°C
◊ Toughened glass stands 4J impact;	Zone 1 and Zone 2
◊ LED lighting;	Zone 21 and Zone 22
◊ Entry Thread;	
◊ Rated voltage(V): AC/DC:12/24;	IP66
AC:36/110/220/230*/240*;	
◊ Rated power(W): 5.	*: Proposed while ordering

A-23

BHZD- Series explosion-proof caution spotlight fittings



- ◇ Aluminum Alloy enclosure, with high-pressure electronic plastic sprayed surface;
- ◇ Toughened glass covers which can work normally under rain snow, hail and sun exposed tough environment;
- ◇ High brightness LED, life span up to 100000 hours;
- ◇ Automatic light control switch control, automatic opening nights and foggy, automatically shut down;
- ◇ Mone obstacle lights when working , it is necessary to synchronize the signal cable connected, that is able to realize synchronous flashing, also can be made wireless synchronization mode upon request or provide a centralized controller;
- ◇ Entry Thread: G3/4;

Lighting source type	Rated Voltage (V)	Rated Power (W)	Peak Intensity	Light Intensity
LED	220	≤8	>200cd	Low light intensity
	230*	≤24	>1000cd	Low light intensity
	240*	≤40	>2000cd	Mediate light intensity
Xenon Light	220	≤50	>20000cd	High light intensity

A-24

HL-BLZD- | 1□E4W-BDJ01 Series explosion-proof exit light fittings



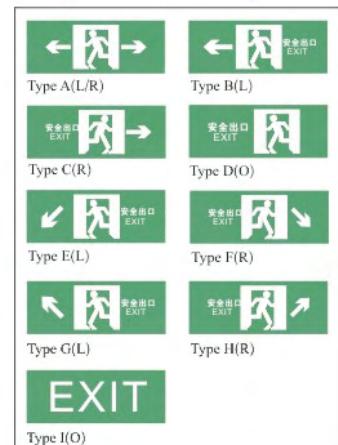
- ◇ Aluminum alloy enclosure, high pressure electrostatic plastic sprayed surface, stainless steel exposed fastener;
- ◇ Toughened glass stands 4J impact;
- ◇ Customer can choose guide symbol which can be customized based on needs;
- ◇ High brightness LED, life span up to 50000 hours;
- ◇ The Lamp is a constant-light lamp, built-in maintenance-free battery, it will charge automatically in the normal power supply, and it will lit while accident or power failure self-test function, automatic discharge once a month;
- ◇ Annual inspection functions, other year from the power to the state of emergency to automatically discharge termination, and then automatically restore the main power status;
- ◇ Entry Thread: G3/4, NPT3/4, M25X1.5;
- ◇ Rated voltage (V): AC 220/230*/240*;
- ◇ Power: 4W;
- ◇ Charging time: 24h;
- ◇ Emergency time: ≥120min.

Ex e ib q IIC T4 Gb
Ex tD A21 IP66 T80°C

Zone 1 and Zone 2
Zone 21 and Zone 22

IP66

*: Proposed while ordering



A-25

HL-ZFZD-E6W-BDJ05-Series explosion-proof emergency light fittings



- ◇ Aluminum alloy enclosure, high pressure electrostatic plastic sprayed surface, stainless steel exposed fastener;
- ◇ Toughened glass stands 4J impact;
- ◇ High brightness LED, life span up to 50000 hours;
- ◇ Specially used for emergency , built-in lithium battery, dynamic charging under normal conditions of transmission, emergency lights will lit automatically when power failure or power outage accident;
- ◇ With overcharge and over discharge, short circuit protection performance;
- ◇ Self-test function automatic discharge month;
- ◇ Annual inspection functions, every other year from the main power to the state of emergency to automatically discharge termination, and then automatically the main power;
- ◇ Entry Thread: G3/4, NPT3/4, M25X1.5;
- ◇ Rated voltage(V): AC220/230*/240*;
- ◇ Charging time: 24h;
- ◇ Lighting power/emergency time: 1.5W×2≥90min.

Ex d e ib q IIC T4 Gb
Ex tD A21 IP66 T80°C

Zone 1 and Zone 2
Zone 21 and Zone 22

IP66

*: Proposed while ordering

A-26

BAJ52-Series explosion-proof emergency fittings



- ◇ Aluminum alloy enclosure, high pressure electrostatic plastic sprayed surface, stainless steel exposed fastener;
- ◇ Built-in lithium battery, dynamic charging under normal conditions of transmission, emergency lights will lit automatically when power failure or power outage accident;
- ◇ Entry Thread: G3/4;
- ◇ Charging time: 24h;
- ◇ Rated Voltage: 220/230*/240*;
- ◇ Emergency time (V): 30, 45, 60, 90;
- ◇ Rated power(w) emergency time
Metal Halide Lamp: 70, 100, 45or30min;
Energy-saving lamp: 32, 36, 45, 55/60or90min;
LED Lamp: 20, 30, 40, 50, 60, 70, 80, 100/60or90min.

Ex d IIC T6 Gb
Ex tD A21 IP66 T80°C

Zone 1 and Zone 2
Zone 21 and Zone 22

IP66

*: Proposed while ordering

A-27

Explosion-proof street lamps (Lamp pole)



- ◇ Steelpipe and cable wiring;
- ◇ High quality steel plate made lamp pole, conical rod or hexagonal pipe structure, internal and external hot-dip zinc treatment and high-voltage electrostatic plastic sprayed surface;
- ◇ Three lamp pole types, including single arm (type A), equal length double arm (type B), unequal length double arm (type C) etc;
- ◇ Various specifications of lamp pole height are customized according to user requirements (standard 6-meter).
- ◇ Rated voltage(V): 220、230*, 240*;
- ◇ Rated power(W):
LED: 60, 75, 85, 100, 120, 150, 200, 250;
Metal halide lamp: 70, 100, 150, 175, 250, 400;
High pressure sodium lamp: 70, 100, 110, 150, 250, 400;
High pressure mercury lamp: 80, 125, 175, 250;
Self-ballasting mercury lamp: 125, 160, 250.

Ex d(e) IIB/IIC T6 Gb
Ex tD A21 IP66 T80°C

Ex d(e) IIB/IIC T5 Gb
Ex tD A21 IP66 T95°C

Ex d(e) IIB/IIC T4 Gb
Ex tD A21 IP66 T130°C

Ex nR IIC T6 Gc
Ex tD A21 IP66 T80°C

Ex nR IIC T4 Gc
Ex tD A21 IP66 T130°C

Ex de (mb) IIC T4/T6 Gb
Ex tD A21 IP66 T130°C/T80°C

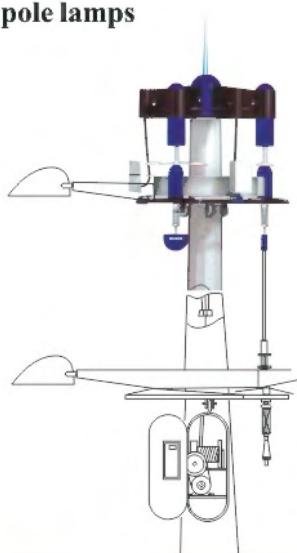
Zone 1 and Zone 2
Zone 21 and Zone 22

IP65、IP66

*: Proposed while ordering

A-28

BGD-Series explosion-proof high pole lamps



- ◇ Light pole: high quality carbon steel plate after processing bending, automatic welding molding, hot dip zinc corrosion treatment;
- ◇ Explosion-proof distribution control system: Explosion-proof control box is fixed at the bottom of the lamp pole, built-in lighting and motor control system, dual circuit power supply;
- ◇ Explosion-proof automatic lifting drive system, hook system, steel cable guide pulley system, guide and brake system, lightning grounding device;
- ◇ All mechanical transmission parts are non-electrical explosion-proof treatment;
- ◇ Rated voltage (V): 220, 230*, 240*, 380, 415;
- ◇ Rated power (W) :
Project lamp≤400W, Floodlight≤1000W,
LED floodlight≤60, 75, 85, 100, 120, 150, 200, 250W.

Ex d e IIB/IIC T4/T3 Gb(floodlight)
Ex tD A21 IP66 T130°C/T195°C(floodlight)

Ex d e IIB(+H2) T6 Gb(LED floodlight)
Ex tD A21 IP66 T80°C(LED floodlight)

Ex nR IIC T4/T3/T2 Gc(floodlight)
Ex tD A21 IP66 T130°C/T195°C/
T290°C(floodlight)

Ex d IIB T4/T3 Gb(project lamp)
Ex d IIC T3 Gb(project lamp)
Ex tD A21 IP66 T130°C/T195°C(project lamp)

Zone 1 and Zone 2
Zone 21 and Zone 22

IP66

*: Proposed while ordering

A-29

BM(D)X51(52)-Series explosion-proof protected distribution box



HLDP03-Series Explosion-proof electrical apparatus (Control distribution system)



(With hinge)

BM(D)X52-P Series explosion-proof lighting (Power) distribution boxes (Cable reel for maintenance)



BM(D)X52- Series explosion-proof illumination(Power) distribution boxes



BM(D)X52-S

BDX52-SQ

- ◇ Copper-free aluminum; powder coated surface;
- ◇ The electric box is explosion proof type, and the junction box is increasing type;
- ◇ Built-in high breaking capacity miniature circuit breakers, such as iC65, S200, and leakage circuit breakers, MCCB, AC contactor, thermal relay, control buttons, control switches, signal lamps and terminals, etc;
- ◇ Ways of installation:
G-Surface type(standard) L-Pedestal type(optional);
- ◇ Inlet and outlet thread:M16~M110×1.5, G1/2~G4;
- ◇ Rated voltage: Max.415V AC;
- ◇ Rated current: Max.250A.

- Ex II2 G Ex de IIIB/IIC T4 Gb
- Ex II2 G Ex de IIIB/IIC T5/T6 Gb
- Ex II2 D Ex tb IIIC T80°C Db IP66
- Ex II2 D Ex tb IIIC T95°C Db IP66

Zone 1 and Zone 2
Zone 21 and Zone 22

IP66

-20°C ≤ Ta ≤ +55°C
-40°C ≤ Ta ≤ +55°C

B-1

- ◇ Copper-free aluminum; powder coated surface;
- ◇ Silicone rubber seal;
- ◇ Explosion-proof enclosure, with hinges. Built-in high breaking capacity miniature circuit breakers, such as iC65, S200, and leakage circuit breakers, MCCB, AC contactor, thermal relay, control buttons, control switches, signal lamps, surge protection device, voltmeter, ammeter and terminals, etc.;
- ◇ Ways of installation:
Surface type(standard), Pedestal type(optional);
- ◇ Inlet and outlet thread:M16~M90×1.5, NPT1/2~3;
- ◇ Rated voltage: Max.AC1000V/DC1500V;
- ◇ Rated current: Max.1200A;
- ◇ Enclosure Size(mm):
282×210×170, 350×210×170, 433×350×280,
563×433×280, 720×563×280, 720×563×350.

- Ex II2 G Ex db II B T6/T5/T4 Gb,
- Ex II2 G Ex db[ia/ib] II B T6/T5/T4 Gb ,
- Ex II2 G Ex db II B+H2 T6/T5/T4 Gb ,
- Ex II2 G Ex db[ia/ib] II B+H2 T6/T5/T4 Gb ,
- Ex II2 D Ex tb IIIC T80/T95/T130°C Db

Zone 1 and Zone 2
Zone 21 and Zone 22

IP66, IP67

T6/T5:-20°C~+60°C, -40°C~+60°C
T5/T4:-20°C~+40°C, -40°C~+40°C

Note: Control button, switch, signal lamps, please refer to E-11~16 in P24~26.

B-2

- ◇ Steel turntable and stent, the surface is high-pressure electrostatic spray;
- ◇ There is an interlock between the explosion-proof socket and the plug, which can be inserted and removed only after the power is off;
- ◇ The cable is tightened and released by the turntable, it is very convenient to rely on the bracket and the traveling wheel when moving;
- ◇ Rated voltage (V): 24, 36, 110, 220, 230, 380, 415, 500, 690;
- ◇ Pin Rated Current (A): 16;
- ◇ Number of poles: 1P + N + PE, 3P + PE, 3P + N + PE.

- Ex d e II C T6 Gb
- Ex tD A21 IP66 T80°C

Zone 1 and Zone 2
Zone 21 and Zone 22

IP65

B-3

- ◇ GRP antistatic shell, stainless steel exposed fasteners, anti-fall-off structure;
- ◇ Increased safety shell, built-in explosion-proof components: circuit breakers (with leakage protection), AC contactor, thermal relay, disconnecting switch, control button;
- ◇ Silicone rubber seal;
- ◇ Switch can be equipped with metal handles and padlocks upon request;
- ◇ Inlet and outlet thread: G1/2 ~ G2, M16 ~ M63×1.5;
- ◇ Rated voltage (V): 220, 230, 240, 380, 415;
- ◇ The total switching current (A): ≤ 63, ≤ 100, ≤ 250;
- ◇ Branch current (A): ≤ 100;
- ◇ Enclosure Size (mm):340×220×159,
340×340×159,
680×340×159.

- Exde II CT4Gb(80~250A)
- Exde II CT6Gb(1~63A)
- Ex tD A21 IP66 T80°C

Zone 1 and Zone 2
Zone 21 and Zone 22

IP66

Note: See P22~27 for internal components

B-4

BM(D)X52-g Series explosion-proof illumination(Power) distribution boxes



BM(D)X52-g

BDX52-gQ

- ◇ Stainless steel shell, stainless steel exposed fasteners;
- ◇ Increased safety shell, built-in explosion-proof components: circuit breakers (with leakage protection), AC contactor, thermal relay, disconnecting switch, control button;
- ◇ Silicone rubber seal;
- ◇ Switch can be equipped with metal handles and padlocks upon request;
- ◇ Rated voltage (V): 220, 230, 240, 380, 415;
- ◇ The total switching current (A): ≤ 63, ≤ 100, ≤ 250;
- ◇ Branch current (A): ≤ 100;
- ◇ Enclosure Size(mm): 180×290×154,
360×360×154,
727×360×154.

Ex de IIC T4 Gb(80~250A)
Ex de IIC T6 Gb(1~63A)
Ex tD A21 IP66 T80°C

Zone 1 and Zone 2
Zone 21 and Zone 22

IP66

Note: See P22 ~ 27 for internal components

B-5

PXK-Series positive pressure explosion-proof power distribution cabinets



- ◇ Shell material: steel, high-pressure electrostatic spray on the surface, or stainless steel, stainless steel exposed fasteners;
- ◇ Silicone rubber seal;
- ◇ Built-in components: instrumentation, analytical instruments, display instruments, monitors, high-power inverter and general electrical components;
- ◇ Form: box, piano table and cabinet structure, the cabinet is divided into the upper and lower structure, left or right structure or one structure;
- ◇ Positive pressure cabinet explosion-proof control system, with modular, standardized structure, digital integrated control, a key operation, easy to operate;
- ◇ Provide remote power transmission, alarm and power-off signal passive contact;
- ◇ Passive switch contacts: 5A 250VAC, 28VDC;
- ◇ Control system rated voltage (V): AC220/230/240/380/415
- ◇ Air inlet thread: NPT3/8.

Ex d e ib mb px II C T4 Gb
Ex d e ib mb pz II C T6 Gc
Ex ibD mD pD tD A21 IP66 T80°C

Zone 1 and Zone 2
Zone 21 and Zone 22

Ip66

Note: See P27 ~ 30 for internal components

B-6

HLDPO5-Series Explosion-proof electrical apparatus (Control loop opening and breaking)



- ◇ Copper-free aluminum; powder coated surface;
- ◇ Silicone rubber seal;
- ◇ Explosion-proof enclosure, with hinges. Built-in high breaking capacity miniature circuit breakers, such as iC65, S200, and leakage circuit breakers, MCCB and terminals, etc.;
- ◇ Ways of installation:
Surface type(standard), Pedestal type(optional);
- ◇ Inlet and outlet thread:M16~M90×1.5, NPT1/2~3;
- ◇ Rated voltage: Max.AC1000V/DC1500V ;
- ◇ Rated current: Max.800A;
- ◇ Enclosure Size(mm):
282×210×170, 350×210×170, 433×350×280,
563×433×280, 720×563×280, 720×563×350.

Ex II2 G Ex db II B T6/T5 Gb
Ex II2 G Ex db II B+H2 T6/T5 Gb
Ex II2 D Ex tb IIIC T80/T95°C Db

Zone 1 and Zone 2
Zone 21 and Zone 22

IP66, IP67

T6/T5:-20°C~+60°C, -40°C~+60°C

B-7

HLDPO6-Series Explosion-proof electrical apparatus(Control motor system)



Ex II2 G Ex db II B T6/T5 Gb
Ex II2 G Ex db II B+H2 T6/T5 Gb
Ex II2 D Ex tb IIIC T80/T95°C Db

Zone 1 and Zone 2
Zone 21 and Zone 22

IP66, IP67

T6/T5:-20°C~+60°C, -40°C~+60°C

B-8

HLDP07-Series Explosion-proof electrical apparatus (Control circuit)



(With hinge)

- ◇ Aluminium alloy; powder coated surface;
- ◇ Silicone rubber seal;
- ◇ Explosion-proof enclosure, with hinges. Built-in control buttons, control switches, signal lamps, potentiometer voltmeter, ammeter and terminals, etc.;
- ◇ Ways of installation: Surface type(standard);
- ◇ Inlet and outlet thread: M16~M90×1.5, NPT1/2~3;
- ◇ Rated voltage: Max.AC1000V/DC1500V;
- ◇ Rated current: 63A;
- ◇ Enclosure Size(min):
210×282×170, 210×350×170,
350×433×280, 433×563×280,
563×720×280, 563×720×350.
- ◇ Zone 1 and Zone 2
Zone 21 and Zone 22
- ◇ IP66, IP67
- ◇ -20°C~+60°C
-40°C~+60°C

Note: See P24 ~ 26 for internal components

B-9

HLBX02-Series Explosion-proof Control stations



HLBX03-Series Explosion-proof Control stations



HLBX05-Series Explosion-proof Control stations



- ◇ The enclosure is made of stainless steel plate, and the stainless steel exposed fasteners, anti-falling structure;
- ◇ Increased safe enclosure, built-in explosion-proof components, (control button, change-over switch, signal lamp, potentiometer, voltmeter, ammeter, etc.) and terminals;
- ◇ The joints of enclosure and cover use silicone rubber seal;
- ◇ Stainless steel can be installed according to the requirements;
- ◇ Can be installed on the panel or remote control;
- ◇ Ways of installation:
G-Surface type, L-Pole type ;
- ◇ Inlet and outlet thread: M16~M63×1.5, G1/2~G2;
- ◇ Rated voltage: 220, 230, 240, 380, 415;
- ◇ Rated current: 6A/10A/16A;
- ◇ Enclosure Size(mm): 150×180×95, 150×240×95,
180×290×95, 260×290×95, 260×360×95,
360×360×95, 360×360×150.
- ◇ Zone 1 and Zone 2
Zone 21 and Zone 22
- ◇ IP66
- ◇ Max.-40°C ~+70°C

Note: See P22 ~ 24 for internal components

B-10

- ◇ GRP(glass fibre-reinforced polyester resin), and the stainless steel exposed fasteners, anti-falling structure;
- ◇ Increased safe enclosure, built-in explosion-proof components, (control button, change-over switch, signal lamp, potentiometer, voltmeter, ammeter, etc). and terminals; guide rail structure;
- ◇ The joints of enclosure and cover use silicone rubber seal;
- ◇ Can be installed on the panel or remote control;
- ◇ Ways of installation: G-Surface type, L-Pole type;
- ◇ Inlet and outlet thread: M16~M40×1.5, G1/2~G11/4;
- ◇ Rated voltage: 220/230/240/380/415;
- ◇ Rated current: 6A/10A/16A;
- ◇ Enclosure Size(mm): 130×150×106, 130×220×106,
178×260×106, 220×340×106, 340.5×340.5×159,
340.5×681.5×159.
- ◇ Zone 1 and Zone 2
Zone 21 and Zone 22
- ◇ IP66
- ◇ Max.-40°C ~+70°C

Note: See P22 ~ 24 for internal components

B-11

- ◇ GRP(glass fibre-reinforced polyester resin), and the stainless steel exposed fasteners, anti-falling structure;
- ◇ Increased safe enclosure, built-in explosion-proof components, (control button, change-over switch, signal lamp, potentiometer, voltmeter, ammeter, etc). and terminals; guide rail structure;
- ◇ The joints of enclosure and cover use silicone rubber seal;
- ◇ Can be installed on the panel or remote control;
- ◇ Ways of installation: G-Surface type;
- ◇ Inlet and outlet thread: M16~M25×1.5, G1/2~G3/4;
- ◇ Rated voltage: 220/230/240/380/415;
- ◇ Rated current: 6A/10A/16A;
- ◇ Enclosure Size(mm): 85×107×73, 85×139×73,
85×185×73.
- ◇ Zone 1 and Zone 2
Zone 21 and Zone 22
- ◇ IP66
- ◇ Max.-40°C ~+70°C

Note: See P22 ~ 24 for internal components

B-12

BXK-Ⅱ Series explosion-proof control boxes(AL)



(With hinges)



- ◇ Cast aluminum alloy shell, the surface of high-pressure electrostatic spray, stainless steel exposed fasteners, anti-fall-off structure;
- ◇ Silicone rubber seal
- ◇ Built-in explosion-proof components: control switch, control buttons, lights, potentiometers, ammeter, tachometer, etc;
- ◇ Built-in stainless steel hinge, easy installation and maintenance;
- ◇ Installation: G-hanging, L-vertical;
- ◇ Inlet thread: G1/2~G11/2, M16~M50×1.5;
- ◇ Rated voltage (V): 220/230/240/380/415;
- ◇ Rated current (A): 6, 10;
- ◇ Enclosure size (mm): 125×170×98, 145×220×98, 170×280×98.

Ex d II C T6 Gb
Ex tD A21 IP66 T80°C

Zone 1 and Zone 2
Zone 21 and Zone 22

IP66

Note: See P22 ~ 24 for internal components

B-13

BZA53-Series explosion-proof control buttons(AL)



- ◇ Cast aluminum shell, the surface of high-pressure electrostatic spray, stainless steel exposed fasteners;
- ◇ Silicone rubber seal;
- ◇ Built-in explosion-proof button, ammeter, etc.;
- ◇ Inlet thread: G3/4;
- ◇ Specification: -1, -1S, -2, -3, -2A;
- ◇ Rated voltage (V)/Rated current (A):
AC220/230/240V/3.5A, AC380/415V/6A,
DC24V/0.4A, DC60V/0.9A,
DC110V/1.6A, DC220V/0.25A.

Ex d II C T6 Gb
Ex tD A21 IP65 T80°C

Zone 1 and Zone 2
Zone 21 and Zone 22

IP65

B-14

BZM-10 Series explosion-proof lighting switches



- ◇ Cast aluminum shell, the surface of high-pressure electrostatic spray, stainless steel exposed fasteners;
- ◇ Silicone rubber seal;
- ◇ Flameproof switch built-in components;
- ◇ Inlet thread: G3/4;
- ◇ Rated voltage (V): 220/230;
- ◇ Rated current (A): 10;
- ◇ Number of poles: 1P + PE.

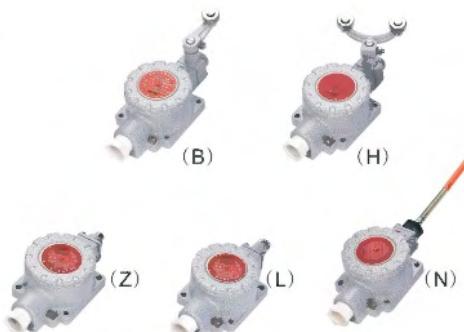
Ex d II B T6 Gb
Ex tD A21 IP65 T80°C

Zone 1 and Zone 2
Zone 21 and Zone 22

IP65

B-15

dLXK-□C Series explosion-proof position switches



- ◇ Cast aluminum shell, the surface of high-pressure electrostatic spray, stainless steel exposed fasteners;
- ◇ Inlet thread: G1/2;
- ◇ Rated voltage (V): AC: 24/36/110/127/220/380, DC: 12/24/36/110/220;
- ◇ Rated current (A): 5.

Ex d II CT6Gb
DIPA20TA,T6

Zone 1 and Zone 2
Zone 20, Zone 21 and Zone 22

IP66

B-16

HLBSP01-Series Explosion-proof plug and sockets



- ◆ Aluminium alloy; powder coated surface;
- ◆ With the interlock function, after the switch in the socket cavity is broken, the plug can be pulled out after the plug is inserted into the cavity, the switch can be closed;
- ◆ Plug and contact performance is reliable, the socket sleeve is equipped with a flexible leaf spring sleeve, so that the plug has self-cleaning features, a small contact resistance and low temperature rise, reducing the insertion force;
- ◆ Socket has a padlock, can be locked when not in use, the socket can not be opened;
- ◆ Inlet thread: 16A-3, 4 poles: M25 × 1.5, NPT3/4, 16A-5 poles and 32A: M32 × 1.5, NPT 1, 63A: socket-M40 × 1.5, NPT11/4, plug-M50 × 1.5, NPT11/2; 125A: socket-M63 × 1.5, NPT2, plug-M50 × 1.5, NPT11/2;
- ◆ Number of poles: 16/32A- 3, 4, 5 poles, 63/125A- 4, 5 poles;
- ◆ Rated voltage (V): 110 ~ 130, 220 ~ 250, 380 ~ 415, 480 ~ 500, 600 ~ 690;
- ◆ Rated current (A): 16, 32, 63, 125.

Ex d II C T6 Gb
Ex tD A21 IP66 T80°C

Zone 1 and Zone 2
Zone 21 and Zone 22

IP66

-60°C ~ +55°C

B-17

BCZ8060-Series explosion-proof anti-corrosion plug and sockets



- ◆ GRP antistatic shell, stainless steel exposed fasteners;
- ◆ With the interlock function, after the switch in the socket cavity is broken, the plug can be pulled out after the plug is inserted into the cavity, the switch can be closed;
- ◆ Plug and contact performance is reliable, the socket sleeve is equipped with a flexible leaf spring sleeve, so that the plug has self-cleaning features, a small contact resistance and low temperature rise, reducing the insertion force;
- ◆ Socket has a padlock, can be locked when not in use, the socket can not be opened;
- ◆ Inlet thread: 16A: M25 × 1.5, 32A, M40 × 1.5, 63A, M50 × 1.5;
- ◆ Number of poles: 3, 4, 5 poles;
- ◆ Rated voltage (V): 110 ~ 130, 220 ~ 250, 380 ~ 415, 480 ~ 500, 600 ~ 690;
- ◆ Rated current (A): 16, 32, 63, 125.

Ex d II C T6 Gb(16, 32A)
Ex tD A21 IP65 T80°C

Ex d II C T5 Gb(63A, 125A)
Ex tD A21 IP66 T80°C

Zone 1 and Zone 2
Zone 21 and Zone 22

IP65

B-18

AH-Series explosion-proof junction boxes



- ◆ Cast aluminum alloy shell, the surface of high-pressure electrostatic spray, stainless steel exposed fasteners;
- ◆ Inlet thread: G1/2 ~ G2, M20 ~ M63 × 1.5, NPT1/2 ~ 2;
- ◆ Specifications: 1way, 2way, 3way, 4way, angle 2way;
- ◆ Rated voltage (V): 220/230/240/380/415;
- ◆ Rated current (A): 20.

Ex d II CT6Gb
Ex tD A21 IP66 T80 °C

Zone 1 and Zone 2
Zone 21 and Zone 22

IP66

C-1

HLBH31(32) - Series explosion-proof terminal boxes



HLBH□-M25d
HLBH□-NPT3/4d

- ◆ Cast aluminum alloy shell, the surface of high-pressure electrostatic spray, stainless steel exposed fasteners;
- ◆ Inlet thread: NPT1/2 ~ 11/2, M20 ~ M50×1.5
- ◆ Specifications: 1way, 2way, 3way, 4way, angle 2way;
- ◆ Rated voltage (V): 220/230/240/380/415/500
- Intrinsic safety: ≤36V;
- Rated current (A): 10, 16, 20;
- Intrinsic safety: ≤5A.

Ex II 2 G Ex db IIC T6Gb
Ex II 2 G Ex ib IIC T6Gb
Ex III 1 G Ex ia IIC T6Ga
Ex II 2 D Ex tb IIIC T80 °C Db

-60 °C ≤ Ta ≤ + 55 °C

Zone 1 and Zone 2
Zone 0, Zone 1 and Zone 2
Zone 21 and Zone 22

IP66

C-2

BJX-Series explosion-proof terminal boxes



(IIB)



(IIB)



(IIC)



(IIC)

- ◇ Cast aluminum alloy shell, the surface of high-pressure electrostatic spray, stainless steel exposed fasteners;
- ◇ Silicone rubber seal
- ◇ Inlet thread: G1 / 2 ~ G4 / M16 ~ M110 × 1.5;
- ◇ Rated voltage (V): 220/230/240/380/415/500/690;
- ◇ Rated current (A): 10, 20, 32, 63, 100, 125, 200, 300, 400;
- ◇ Enclosure Size(mm): 165×165×116, 210×230×129, 230×270×129, 300×370×160, 560×560×197.

Ex d II B T6 Gb
Ex d II C T6 Gb
Ex tD A21 IP66 T80 °C

Zone 1 and Zone 2
Zone 21 and Zone 22

IP66

C-3

HLDP11- Series Explosion-proof electrical apparatus (For cable connection)



- ◇ Cast aluminum alloy shell, the surface of high-pressure electrostatic spray, stainless steel exposed fasteners;
- ◇ Silicone rubber seal;
- ◇ Inlet thread: M16~M90×1.5, NPT1/2 ~ 3;
- ◇ Rated voltage (V): 220/230/240/380/415/500/690;
- ◇ Rated current (A): 10, 20, 32, 63, 100, 125, 200, 300, 400,630;
- ◇ Enclosure Size(mm): 282 × 210 × 170, 350 × 210 × 170, 433 × 350 × 280, 563 × 430 × 280, 720 × 563 × 280, 720 × 563 × 350.

Ex II 2 G Ex db II B T6/T5/T4 Gb
Ex II 2 G Ex db II B+H2 T6/T5/T4 Gb
Ex II 2 D Ex tb IIIC T80/T95/T130°C Db

Zone 1 and Zone 2
Zone 21 and Zone 22

IP66, IP67

T6/T5:-20°C~+60°C, -40°C~+60°C
T5/T4:-20°C~+40°C, -40°C~+40°C

C-4



(With hinge)

HLBH16-C Series explosion-proof terminal boxes(SS)



- ◇ Stainless steel shell;
- ◇ Thread structure, easy to open the lid;
- ◇ Silicone rubber seal;
- ◇ Inlet thread: G1/2~4, NPT1/2~4, M16~M110 × 1.5;
- ◇ Rated voltage (V): 220/230/240/380/415/500/690;
- ◇ Rated current (A): 10, 20, 32, 63,100,125,200,300,400;
- ◇ Enclosure Size(mm): 220 × 220 × 150, 330 × 330 × 180, 450 × 450 × 200.

Ex d IIC T6 Gb
Ex tD A21 IP66 T80 °C

Zone 1 and Zone 2
Zone 21 and Zone 22

IP66

C-5

eJX-Series explosion-proof terminal boxes (AL)



(eJX-)



(eJX-ia)

- ◇ Cast aluminum alloy shell, the surface of high-pressure electrostatic spray, stainless steel exposed fasteners, anti-fall-style structure;
- ◇ Silicone rubber seal;
- ◇ Inlet thread: G1/2 ~ G4, M16~M110×1.5;
- ◇ Rated voltage (V): eJX-ia: ≤ 24; eJX: 220/230/240/380/415/500/690;
- ◇ Rated current (A): eJX-ia: 5; eJX: 10, 20, 32, 63, 100, 125, 200, 300, 400;
- ◇ Enclosure Size(mm): 125×170×98, 140×140×124, 145×220×98, 210×140×124, 170×280×98, 210×210×124, 300×210×124, 300×300×127, 430×300×204, 560×430×200.

Ex e II CT6 Gb (≤40A)
Ex tD A21 IP66 T80 °C
Ex e II CT5 Gb (≤63A)
Ex tD A21 IP66 T80 °C
Ex e II CT4 Gb (≤400A)
Ex tD A21 IP66 T80 °C
Ex ia II CT6 Ga (5A)
Ex tD A21 IP66 T80 °C

Zone 0, Zone 1 and Zone 2
Zone 21 and Zone 22

IP66

C-6

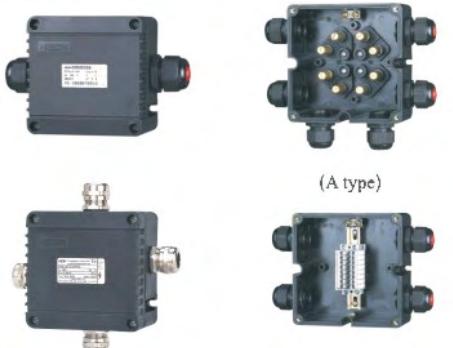
HLBH02-S Series explosion-proof terminal box(SS)



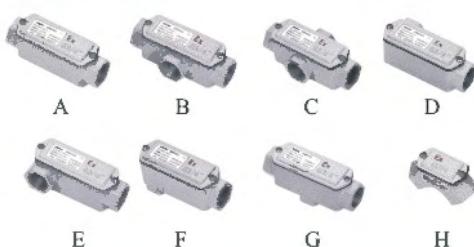
HLBH03-Series explosion protected terminal box(GRP)



HLBH05- Series explosion protected terminal box



BHC- Series explosion-proof wiring boxes



- ◇ Stainless steel shell, stainless steel exposed fasteners;
- ◇ Silicone rubber seal;
- ◇ According to the requirements can be built-in stainless steel hinge, easy installation and maintenance;
- ◇ can be transferred to the lock or padlock on request;
- ◇ inlet thread: G1/2 ~ G2, M16~M63×1.5;
- ◇ Rated voltage (V): 220/230/240/380/415/500/690;
- ◇ Intrinsic safety: ≤36V;
- ◇ Rated current (A): 10,16,20,25,32,50,63,100,125,142;
- ◇ Intrinsic safety: ≤5A;
- ◇ Enclosure Size(mm)130 × 130 × 95, 130 × 180 × 95, 150 × 240 × 95, 240 × 240 × 95, 290 × 180 × 95/154, 290 × 260 × 95/154, 360 × 260 × 95/154, 360 × 360 × 95/154/232, 727 × 360 × 95/154/232/276, 727 × 727 × 154/276.

- Ex II2 G Ex eb II C T6/T5/T4 Gb
- Ex II1 G Ex ia II C T6 Ga
- Ex II2 G Ex ia II C T6 Gb
- Ex II2 D Ex tb IIIC T80 °C /T95 °C /T130 °C Db

Ex eb T6 for Tamb:-40°C~+40°C;
T5 for Tamb:-40°C~+55°C;
T4 for Tamb:-40°C~+40/55°C
Ex ia T6 for Tamb:-40°C~+40/45/55/60°C

Zone 0, Zone 1 and Zone 2
Zone 21 and Zone 22

IP66

C-7

- ◇ GRP antistatic shell, stainless steel exposed fasteners, anti-fall-style structure;
- ◇ Built-in terminals;
- ◇ Silicone rubber seal;
- ◇ Inlet and outlet thread: G1/2~G2, M16~M63×1.5;
- ◇ Rated voltage (V): 220, 230, 240, 380, 415, 500, 690;
- ◇ Intrinsic safety: ≤36V;
- ◇ Rated current (A): 10, 20, 32, 63, 100, 125, 142;
- ◇ Intrinsic safety: ≤5A;
- ◇ Enclosure Size(mm)130×150×106, 130×220×106, 178×260×106, 340×220×106/159, 681×340×159, 340×340×159/202.

- Ex II2 G Ex eb IIC T6/T5 Gb
- Ex II2 D Ex tb IIIC T80/T95 °C Db

Ex III G Ex ia IIC T6 Ga (5A)
Ex II2 G Ex ib IIC T6 Gb (5A)
Ex II2 D Ex tb IIIC T80 °C Db

-40 ° C ≤ Ta ≤ + 40/55/65/70 ° C

Zone 1 and Zone 2
Zone 21 and Zone 22

Zone 0, Zone 1 and Zone 2
Zone 21 and Zone 22

IP66

C-8

- ◇ Polyamide plastic shell, stainless steel exposed fasteners, anti-fall-type structure;
- ◇ Silicone rubber seal;
- ◇ A type: built-in open pressure-type terminals;
- ◇ Standard: built-in terminal block;
- ◇ Inlet thread: M16/20/25/32 × 1.5;
- ◇ Rated voltage (V): 220/380/500;
- ◇ Rated current (A): 20, 5 (ia);
- ◇ Shell size (mm): 95 × 95 × 63; 125 × 125 × 70.

- Ex II2 G Ex eb IIC T6 Gb
- Ex II2 D Ex tb IIIC T80 °C Db

Ex II1 G Ex ia IIC T6 Ga (5A)
Ex II2 G Ex ib IIC T6 Gb (5A)
Ex II2 D Ex tb IIIC T80 °C Db

-40 ° C ≤ Ta ≤ + 40/55/60/70 ° C

Zone 1 and Zone 2
Zone 21 and Zone 22
Zone 0, Zone 1 and Zone 2
Zone 21 and Zone 22

IP66

C-9

- ◇ Cast aluminum alloy shell, the surface of high-pressure electrostatic spray, stainless steel exposed fasteners;
- ◇ Thread size: G1/2 ~ G4;
M20X1.5~M63X1.5 shall be customized;
NPT1/2 ~ NPT4 shall be customized;
- ◇ Code: A, B, C, D, E, F, G, H.

- Ex e ll C Gb
- Ex tD A20 IP65

Zone 1 and Zone 2
Zone 20, Zone 21 and Zone 22

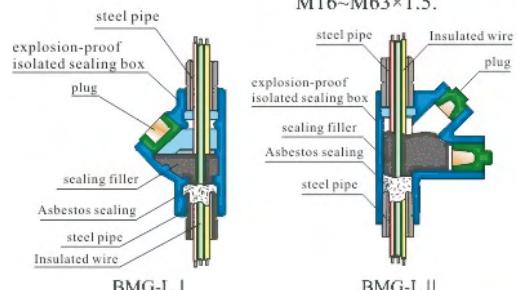
IP65

C-10

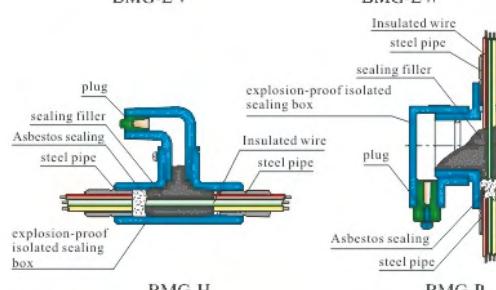
BMG-Series explosion-proof seal bushings



- ◆ Cast aluminum alloy shell, the surface of high-pressure electrostatic spray;
- ◆ Thread specifications of L I、H、P: G1/2~G4, NPT1/2~4; M16~M110×1.5;
- ◆ Thread specifications of L II: G1/2~G2, NPT1/2~2; M16~M63×1.5.



BMG-L I



BMG-H

BMG-P

Ex d II C Gb
Ex tD A20 IP66

Zone 1 and Zone 2
Zone 20, Zone 21 and Zone 22

IP66

Form:
L-vertical
H-horizontal
P-drainage

C-11

BNG-Series explosion-proof flexible conduits



- ◆ Connecting pipe material: stainless steel, with wire braided rubber;
- ◆ BNG-s: the product is composed of high quality carbon steel made internal and external thread pipe connector and lined reinforced steel wire mesh tube rubber conduit.
- ◆ BNG-g: the product is composed of internal and external stainless steel thread pipe connector, stainless steel bellow, stainless steel mesh tube and etc.
- ◆ Thread specifications: G1/2~G2, NPT1/2~2; M16~M63×1.5.

Ex d II C Gb
Ex tD A20 IP65

Ex e II C Gb
Ex tD A20 IP66

Zone 1 and Zone 2
Zone 20, Zone 21 and Zone 22

IP65, IP66

C-12

BHJ-Series explosion-proof active pipe connectors



- ◆ Carbon steel, galvanized surface, or stainless steel;
- ◆ Thread specifications: G1/2~G4, NPT1/2~4; M16 ~ M110 × 1.5, can be customized.

Ex d II C Gb
Ex tD A20 IP66

Zone 1 and Zone 2
Zone 20, Zone 21 and Zone 22

IP66

C-13

BGJ-Series explosion-proof connectors(Pipe, Reducer)



- ◆ Carbon steel, galvanized surface, or stainless steel;
- ◆ Thread specifications: G1/2 ~ G4, NPT1/2~4; M16 ~ M110 × 1.5, can be customized.

Ex d II C Gb
Ex tD A20 IP66

Zone 1 and Zone 2
Zone 20, Zone 21 and Zone 22

IP66

C-14

BDM-7 Series explosion-proof cable gland



- ◆ Engineering plastic material;
- ◆ Thread size: M16 ~ M63 × 1.5.

Ex e II C Gb
Ex tD A20 IP66

Zone 1 and Zone 2
Zone 20, Zone 21 and Zone 22

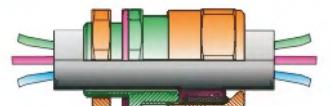
IP66

C-15

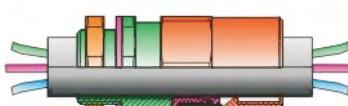
HLBM01/02-Series explosion-proof cable glands(Unarmored)



- ◆ Material: Brass (surface can be nickel-plated) or stainless steel;
- ◆ Mechanical cable clamping device, single ring structure;
- ◆ Thread specifications: G1/2~G2, NPT1/2~2; M16 ~ M63 × 1.5, can be customized.



HLBM01



HLBM02

Ex e II C Gb
Ex tD A20 IP66 / 67

Zone 1 and Zone 2
Zone 20, Zone 21 and Zone 22

-40 °C ≤ Tservice ≤ +100 °C
-60 °C ≤ Tservice ≤ +100 °C

IP66, IP67

C-16

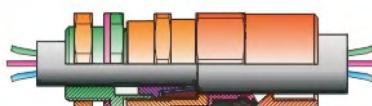
HLBM05/06-Series explosion-proof cable glands(Armored)



- ◆ Material: Brass (surface can be nickel-plated) or stainless steel;
- ◆ Mechanical cable clamping device, single ring structure, suitable for armored cable clamping;
- ◆ Thread specifications: G1/2~G2, NPT1/2~2; M16 ~ M63 × 1.5, can be customized.



HLBM05



HLBM06

Ex e II C Gb
Ex tD A20 IP66

Zone 1 and Zone 2
Zone 20, Zone 21 and Zone 22

-40 °C ≤ Tservice ≤ +100 °C
-60 °C ≤ Tservice ≤ +100 °C

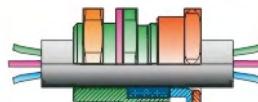
IP66

C-17

HLBM07/08- Series explosion-proof cable glands(Unarmored)



- ◆ Material: Brass (surface can be nickel-plated) or stainless steel;
- ◆ Mechanical cable clamping device, single ring structure;
- ◆ Thread specifications: G1/2~G, NPT1/2~2; M16 ~ M63 × 1.5, can be customized.



HLBM07



HLBM08

Ex d II C Gb (G thread not applicable)
Ex e II C Gb
Ex tD A20 IP66 / 67

Zone 1 and Zone 2
Zone 20, Zone 21 and Zone 22

-40 °C ≤ Tservice ≤ +100 °C
-60 °C ≤ Tservice ≤ +100 °C

IP66, IP67

C-18

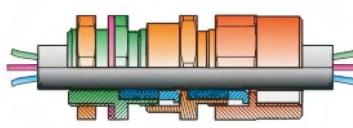
HLBM09/10-Series explosion-proof cable glands(Unarmored)



- ◆ Material: Brass (surface can be nickel-plated) or stainless steel;
- ◆ Mechanical cable clamping device, double ring structure;
- ◆ Thread specifications: G1/2~G2, NPT1/2~2; M16 ~ M63 × 1.5, can be customized.



HLBM09



HLBM10

Ex d II C Gb (G thread not applicable)
Ex e II C Gb
Ex tD A20 IP66

Zone 1 and Zone 2
Zone 20, Zone 21 and Zone 22

-40 °C ≤ Tservice ≤ +100 °C
-60 °C ≤ Tservice ≤ +100 °C

IP66, IP67

C-19

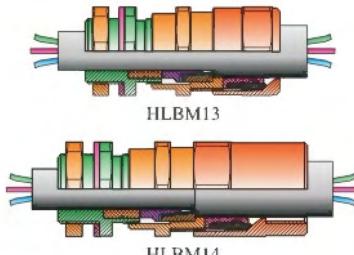
HLBM13/14-Series explosion-proof cable glands(Armored)



- ◊ Material: Brass(surface can be nickel-plated)or stainless steel;
- ◊ Mechanical cable clamping device, double ring structure, suitable for armored cable clamping;
- ◊ Thread specifications: G1/2~G2, NPT1/2~2; M16 ~ M63 × 1.5, can be customized.

Ex d II C Gb (G thread not applicable)
Ex e II C Gb
Ex tD A20 IP66 / 67

Zone 1 and Zone 2
Zone 20, Zone 21 and Zone 22



C-20

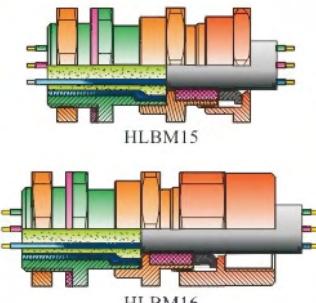
HLBM15/16-Series explosion-proof cable glands(Unarmored)



- ◊ Material: Brass (surface can be nickel-plated) or stainless steel;
- ◊ Packing seal cable, mechanical cable clamping device, single ring structure;
- ◊ Thread specifications: G1/2~G2, NPT1/2~2; M16 ~ M63 × 1.5, can be customized.

Ex d II C Gb (G thread not applicable)
Ex e II C Gb
Ex tD A20 IP66

Zone 1, Zone 2
Zone 20, Zone 21 and Zone 22



C-21

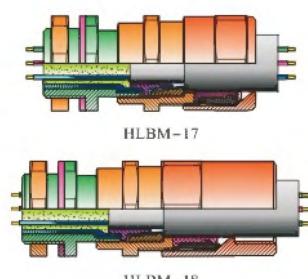
HLBM17/18-Series explosion-proof cable glands(Armored)



- ◊ Material: Brass (surface can be nickel-plated) or stainless steel;
- ◊ Packing seal cable, mechanical cable clamping device, single ring structure, suitable for armored cable clamping;
- ◊ Thread specifications: G1/2~G2, NPT1/2~2; M16 ~ M63 × 1.5, can be customized.

Ex d II C Gb (G thread not applicable)
Ex e II C Gb
Ex tD A20 IP66

Zone 1 and Zone 2
Zone 20, Zone 21 and Zone 22



C-22

MFB-I Isolation sealant



- ◊ Has good flexibility, good anti-aging, high temperature does not flow, not brittle at low temperatures;
- ◊ For metal, cable jacket, etc, has good adhesion, also has a good air tightness;
- ◊ Tasteless, non-toxic, non-corrosive, convenient for construction and maintenance;
- ◊ In the pipe or cable wiring project, has good sealed isolation fire, water-proof effect.

C-23

A, B-type Packing



- ◊ Has the characteristics of waterproof and endurance;
- ◊ Non-corrosive, easy to operate, convenient construction;
- ◊ A, B two kinds of filler mixed curing, higher strength;
- ◊ In the steel pipe or cable, wire wiring project, play isolation seal, fire, the role of anti-smoking, and explosion-proof isolation sealed box supporting the use of better results can be achieved.

C-24

HLBM41-Series explosion-proof stopping plug



- ◊ Material: cast aluminum alloy, carbon steel, brass (nickel-plated) or stainless steel;
- ◊ No flange structure, hexagonal fastening;
- ◊ Thread specifications: NPT1/2~4.

Ex II 2 G Ex db II C Gb
Ex II 2 G Ex eb II C Gb
Ex II D Ex ta III C Da

Zone 1 and Zone 2
Zone 20, Zone 21 and Zone 22

-20 °C ≤ Tservice ≤ +100 °C
-60 °C ≤ Tservice ≤ +100 °C

IP66, IP67

C-25

HLBM42-Series explosion-proof stopping plug



- ◊ Material: cast aluminum alloy, carbon steel, brass (nickel-plated) or stainless steel;
- ◊ Hexagonal flange structure;
- ◊ Thread specifications: G1/2~G4, NPT1/2~4
M16 ~ 110 × 1.5.

Ex II 2 G Ex db II C Gb (G thread not applicable)

Ex II 2 G Ex eb II C Gb
Ex II D Ex ta III C Da

Zone 1 and Zone 2
Zone 20, Zone 21 and Zone 22

-20 °C ≤ Tservice ≤ +100 °C

-60 °C ≤ Tservice ≤ +100 °C

IP66, IP67

C-26

HLBM43-Series explosion-proof stopping plug



- ◊ Material: cast aluminum alloy, carbon steel, brass (nickel-plated) or stainless steel;
- ◊ Round flange structure;
- ◊ Thread specifications: G1/2~G4,
M16 ~ 110 × 1.5.

Ex II 2 G Ex db II C Gb (G thread not applicable)
Ex II 2 G Ex eb II C Gb
Ex II D Ex ta III C Da

Zone 1 and Zone 2
Zone 20, Zone 21 and Zone 22

-20 °C ≤ Tservice ≤ +100 °C

-60 °C ≤ Tservice ≤ +100 °C

IP66, IP67

C-27

HLBM44-Series explosion-proof stopping plug (Plastic)



- ◊ Material: nylon plastic;
- ◊ Thread size: M16 ~ M63 × 1.5.

Ex e II C Gb
Ex tD A20 IP66

Zone 1 and Zone 2
Zone 20, Zone 21 and Zone 22

-20 °C ≤ Tservice ≤ +85 °C

-40 °C ≤ Tservice ≤ +85 °C

C-28

Lock nut



- ◊ Material: carbon steel, stainless steel or brass (surface nickel);
- ◊ Thread size: G1/2~G4, M16 ~ 110 × 1.5.

IP66

C-29

Sealing washer



- ◊ Used for the seal between the head and the shell, waterproof and dustproof;
- ◊ Material: red fiber (GFK), polytetrafluoroethylene;
- ◊ Specifications: G1/2, M16-M25 for selection.

C-30

Earth lug



- ◊ Material: Brass;
- ◊ Provide a ground connection between the cable gland and the equipment.

Specification(G)	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
Rated short-circuit current per second (KA)	3/4	4	5.4	7.2	10.4	10.4	10.4	10.4	10.4

C-31

Shroud



- ◊ Material: neoprene or PVC;
- ◊ suitable for a variety of specifications HLB series explosion-proof cable clamp sealing joints with the appearance of protection.

C-32

Compression nut



- ◊ Material: cast aluminum alloy, carbon steel, stainless steel or brass (surface nickel plating);
- ◊ In the cable routing device, play a role of cable seal clamping;
- ◊ thread size: G1/2~G4, M16~110×1.5.

C-33

BGJ- II C Bulkhead connector


- ◊ Material: Zinc alloy, equipped with hard plastic ring, to protect the cable insulation;
- ◊ It consists of body, lock nut and rubber seal ring.
- ◊ Wear plate joints play the role of connecting steel pipe and cable tray.

Nominal diameter (mm)	15	20	25	32	40	50	70	80	100
Pipe thread(G)	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4

C-34

Protective hole


- ◊ Material: zinc alloy, lined with hard plastic retainer;
- ◊ It is usually used with steel tube to protect the outer protective layer of wire and cable.

Nominal diameter (mm)	15	20	25	32	40	50	70	80	100
Pipe thread(G)	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4

C-35

Pipe clamps


- ◊ Material: steel (nickel-plated) or stainless steel;
- ◊ suitable for the installation of lamps in the field;
- ◊ Specifications: G1/2 ~ G4.

C-36

U-type pipe elamps


- ◊ Material: round (galvanized surface) or stainless steel;
- ◊ Card size: G1/2 ~ G4.

C-37

BT35- Series explosion-proof axial fans


- ◊ Air duct material is steel, the surface of high-pressure electrostatic spray, or FRP, stainless steel exposed fasteners;
- ◊ Products from the explosion-proof motors, blades, hair dryer, protective net enclosures and other components;
- ◊ Low noise, low energy consumption;
- ◊ In addition to ventilation, exhaust purposes, but also in the longer exhaust pipe spacing installed in series to improve the pressure inside the pipe;
- ◊ Installation: G-fixed L-post D- pipe type B- wall;
- ◊ Inlet thread: G3/4, M24 ~ M36;
- ◊ Cable routing;
- ◊ Rated voltage (V): 220/380;
- ◊ Machine number: 2.8, 3.15, 3.55, 4, 4.5, 5, 5.6, 6.3, 7.1, 8, 9, 10, 11.2.

Ex d IIB T4 Gb

Zone 1 and Zone 2

IP54

D-1

BFS- Series explosion-proof exhaust fans


- ◊ Air duct material is steel, motor, fan material is cast aluminum alloy, the surface of high voltage electrostatic spray, stainless steel exposed fasteners;
- ◊ By the explosion-proof motors, blades, hair dryer, protective net enclosures and other components;
- ◊ Installation: G-fixed L-post D- pipe type B- wall;
- ◊ Inlet thread: G3/4;
- ◊ Rated voltage (V): 220/380;
- ◊ Power (W): 220V: 180/350/650, 380V: 180/300/550;
- ◊ Blade diameter (mm): 300, 400, 500, 600.

Ex d IIB T4 Gb

Zone 1 and Zone 2

IP54

D-2

BFS- □ F Series explosion-proof exhaust fans (Square)


- ◊ Door material is steel, the surface of high-pressure electrostatic spray, stainless steel exposed fasteners;
- ◊ By the explosion-proof motors, blades, noodles door, protective net, louver and other components;
- ◊ Blinds for the aluminum alloy, the surface anodized;
- ◊ With damping device;
- ◊ Inlet thread: G3/4;
- ◊ Rated voltage (V): 220/380;
- ◊ Power (W): 180;
- ◊ Blade diameter (mm): 300, 400.

Ex d IIB T4 Gb

Zone 1 and Zone 2

IP54

D-3

BKF (G) R-Series explosion-proof air conditioners



- ◆ Specification:
 - Wall type:
BKF(R)-35/□, BKF(R)-50/□,
BKF(R)-71/□;
 - Floor type:
BKG(R)-50/□, BKG(R)-71/□,
BKF(R)-122/□;
- ◆ Wall type Input power(P):1.5P, 2P, 3P;
- ◆ Floor type Input power(P):2P, 3P, 5P;
- ◆ Rated voltage
50Hz:220/230/240V;
60Hz:220/230/240V.

Ex d e ib mb II B T4 Gb
Ex d e ib mb II C T4 Gb

Zone 1 and Zone 2

-7°C ≤ Ta ≤ +43°C

D-4

HL0211-Series explosion-proof LED tubes



Bi-pin/Single-pin(optional)

- ◆ Transparent material: PC, anti-glare treatment, both ends of the material is aluminum alloy;
- ◆ Built-in LED, life expectancy ≥ 50000 hours;
- ◆ Built-in power supply, wide voltage input (180 ~ 265V), constant power output, COSΦ ≥ 0.95, with constant current, open circuit, short circuit protection;
- ◆ Color temperature 5000K;
- ◆ Matching with the explosion-proof shell supporting the use, can not use alone;
- ◆ Rated voltage (V): 220/230 */240 *;
- ◆ Rated power (W): 9, 18.

Ex d II C Gb
Zone 1 and Zone 2
* Required when ordering

E-1

HLE03-Series explosion-proof enclosures model



- ◆ Cast aluminum alloy shell, the surface of high-pressure electrostatic spray, stainless steel exposed fasteners;
- ◆ Silicone rubber seal;
- ◆ Shell cover: with glass window, threaded hole;
- ◆ Inlet thread: M16 ~ M90 × 1.5, NPT1/2 ~ 3;
- ◆ Shell size (mm): 282 × 210 × 170, 350 × 210 × 170, 433 × 350 × 280, 563 × 430 × 280, 720 × 563 × 280, 720 × 563 × 350.

Ex II 2 G Ex db II B Gb
Ex II 2 D Ex tb III C Db
Ex II 2 G Ex db II B + H2 Gb
Ex II 2 D Ex tb III C Db
-20 °C ≤ Ta ≤ +60 °C
-20 °C ≤ Tservice ≤ +100 °C
-40 °C ≤ Ta ≤ +60 °C
-40 °C ≤ Tservice ≤ +100 °C

Zone 1 and Zone 2
Zone 21 and Zone 22

IP66, IP67

E-2

Explosion-proof Electrical accessories



- ◆ Shell material: engineering plastics;
- ◆ Matching with the explosion-proof shell supporting the use, can not use alone;
- ◆ Attachment code:
- ◆ (A1)Spring-return control button: Spring-return control 1 control button;
- ◆ (A2)Double control button: Spring-return control button, 1 control button element has the function of 2 control buttons;
- ◆ (A3)Mushroom turn-to-release emergency control button: Rotary resetting control button; self-locking;
- ◆ (A4)Mushroom head button: Spring-return control button;
- ◆ (Y0)Emergency button with key: Locked when push, unlocked by key;
- ◆ (Y1)Key-operated control button:
Rotate to lock; release with key Two-place switch function: can be turned within 90 degree;
Three-place switch function: can be turned within 125 degree;
- ◆ φ 38, φ 65, Square Operating handle:
1.Two-place switch function: can be turned within 90 degree;
2.Three-place switch function: can be turned within 125 degree.
- ◆ HL0102 shade color: red, green, yellow, white, blue;
- ◆ Can be marked on the box with the request;
- ◆ Hole size (mm): φ 30.3.

Ex II 2 G Ex eb II C Gb
Ex II 2 D Ex tb III C Db
Zone 1 and Zone 2
Zone 21 and Zone 22

-40 °C ≤ Tservice ≤ +80 °C

IP66



E-3

HL0101-Series explosion-proof button/switch modules



HL0102-Series explosion-proof signal lamp modules



HL0101-A Series explosion-proof button with signal lamp modules



8098-Series explosion-proof potentiometers



- ◇ Material: engineering plastics;
- ◇ Plate front type, guide structure;
- ◇ Plate front type, plate back type (HL0101-M) must be matched with the matching explosion-proof shell used together, can not be used alone;
- ◇ Board after the cable type (HL0101-MD) can be used alone;
- ◇ Maximum voltage (V): 415V;
- ◇ Maximum current (A): 10;
- ◇ Number of poles: 1 (2);

HL0101-□□:
 Ex II2 G Ex db eb IIC Gb
 -40°C ≤ Ta ≤ +70°C(6A)/+60°C (10A)
 -40°C ≤ Tservice ≤ +85°C

HL0101-□M□:
 Ex II2 G Ex db eb IIC Gb
 -40°C ≤ Ta ≤ +70°C(6A)/+65°C (10A)
 -40°C ≤ Tservice ≤ +85°C

HL0101-□/□MD□:
 Ex II2 G Ex db eb IIC T6/T5 Gb
 Ex II2 D Ex tb IIIC T80/T95°C Db
 6 A : -40°C ≤ Ta ≤ +55°C/65°C
 10A : -40°C ≤ Ta ≤ +50°C/55°C

Zone 1 and Zone 2
 Zone 21 and Zone 22
 IP66 E-4

- ◇ Material: engineering plastics ;;
- ◇ Shade material: PC;
- ◇ Shade color: red, green, yellow, white, blue;
- ◇ Built-in LED, life expectancy ≥ 50000 hours;
- ◇ Plate front type, guide structure;
- ◇ Plate front type, plate back type (HL0102-M) must be matched with the matching explosion-proof shell used together, can not be used alone;
- ◇ Board after the cable type (HL0102-MD) can be used alone;
- ◇ Rated voltage (V): AC/DC12 ~ 36, AC/DC48 ~ 127, AC220~415, DC220 ~ 250;
- ◇ Output power (W): <1.

HL0102-□□:
 Ex II2 G Ex db eb IIC Gb
 -40°C ≤ Ta ≤ +70°C
 -40°C ≤ Tservice ≤ +85°C

HL0102-□M□:
 Ex II2 G Ex db eb IIC Gb
 -40°C ≤ Ta ≤ +70°C
 -40°C ≤ Tservice ≤ +85°C

HL0102-□□MD□:
 Ex II2 G Ex db eb IIC T6/T5 Gb
 Ex II2 D Ex tb IIIC T80/T95°C Db
 -40°C ≤ Ta ≤ +55°C/65°C

Zone 1 and Zone 2
 Zone 21 and Zone 22
 IP66 E-5

- ◇ Material: engineering plastics;
- ◇ Shade color: red, green, yellow, white, blue;
- ◇ Built-in LED, life expectancy ≥ 50000 hours;
- ◇ Plate front type, guide structure;
- ◇ Plate front type, plate back type (HL0101-AM) must be matched with the matching explosion-proof shell used together, can not be used alone;
- ◇ Board after the cable type (HL0101-AMD) can be used alone;
- ◇ Button/switch maximum voltage (V): 415V, Maximum current (A): 10;
- ◇ Contact form: HL0101-A is a pair of or2 pairs of contacts, HL0101-AM (MD) is 1 normally open or1 normally closed;
- ◇ Indicator Rated Voltage (V): AC/DC12 ~ 36, AC/DC48 ~ 127, AC220 ~ 415, DC220 ~ 250;
- ◇ Indicator output power (W): <1;
- ◇ Hole size (mm): φ 30.3.

HL0101-A□□□:
 Ex II2 G Ex db eb IIC Gb
 -40°C ≤ Ta ≤ +70°C(6A)/+60°C(10A)
 -40°C ≤ Tservice ≤ +85°C

HL0101-A□□M□:
 Ex II2 G Ex db eb IIC Gb
 -40°C ≤ Ta ≤ +70°C(6A)/+65°C(10A)
 -40°C ≤ Tservice ≤ +85°C

HL0101-A□□□MD□:
 Ex II2 G Ex db eb IIC T6/T5 Gb
 Ex II2 D Ex tb IIIC T80/T95°C Db IP66
 6 A : -40°C ≤ Ta ≤ +55°C/65°C
 10A : -40°C ≤ Ta ≤ +50°C/55°C

Zone 1 and Zone 2
 Zone 21 and Zone 22
 IP66 E-6

- ◇ Material: engineering plastics;
- ◇ Built-in single lap (S), multi-turn (M) potentiometer;
- ◇ Plate front type is rail structure;
- ◇ Plate front type, plate back type (8098-M) should be matched with the matched explosion-proof enclosure, and can not be used alone;
- ◇ Plate back type (8098-MD) can be used alone;
- ◇ Main technical parameters;

Model name	Rated Power(W)	Resistance(KΩ)
8098-1S	1	1, 2, 5, 10, 20, 50, 100, 200, 500, 1000, 2000
8098-2S	2	1, 2, 5, 10, 20, 50, 100, 200, 500, 1000, 2000
8098-2M	2	1, 2, 5, 10, 20, 50, 100

- ◇ Hole size (mm): φ 30.3.

8098-:
 Ex d e II C Gb
 Ex tD A21
 IP20

8098-M:
 Ex d e II C Gb
 Ex tD A21
 IP20, IP65 (head)

8098-MD:
 Ex d e II C T6 Gb
 Ex tD A21 IP66 T80 °C
 IP65

Zone 1, Zone 2 / Zone 21, Zone 22
 IP65, IP20 E-7

8008/2-Series explosion-proof anti-corrosion control switches



8008/2 Two poles switches

8008/2 Four poles switches

- ◇ GRP shell;
- ◇ Matching with the explosion-proof shell supporting the use, and can not be used alone;
- ◇ Rated voltage (V): 230/380/415;
- ◇ Rated current (A): 10;
- ◇ Pole number: 2/4;
- ◇ Handle code: S11-φ 38 operating handle,
S12-φ 65 operating handle (with padlock),
S13-square operating handle;
- ◇ Hole size (mm): φ 30.3.

Ex d IIC Gb

Zone 1 and Zone 2

E-8

8008/2-II Series explosion-proof anti-corrosion control switches



- ◇ Shell material: engineering plastics;
- ◇ Switch for the mother block structure, each pair of contacts are independent, can be composed 100 kinds of electrical contact form, meet various requirements of users;
- ◇ Matching with the explosion-proof shell supporting the use, not alone;
- ◇ Rated voltage (V): 230/415;
- ◇ Rated current (A): 10, 16;
- ◇ Pole number: 2, 4, 6;
- ◇ Handle code: S21-φ 38 operating handle,
S22-φ 65 operating handle (with padlock),
S23-square operating handle;
- ◇ Hole size (mm): φ 30.3.

Ex d IIC Gb

Zone 1 and Zone 2

E-9

HL0109 - Series explosion-proof ammeters



HL0108

HL0109



- ◇ Shell material: engineering plastics;
- ◇ Matching with the explosion-proof shell supporting the use, not alone; protection grade of the cavity can reach IP66 after equipped with HL0108-48/72 explosion-proof calotte;
- ◇ Frequency: 45Hz...60Hz;
- ◇ Power consumption: <0.6VA;
- ◇ Ammeter overload rate: 5 times;
- ◇ Specifications: 48 type, 72 type;
- ◇ Accuracy: 1.5;
- ◇ Range: 0-1A, 0-5A, 0-10A;
- ◇ Range(A): 1, 2.5, 5, 10, 15, 20, 25, 30, 40, 50, 60, 75, 100 etc.;
- ◇ Secondary current: 5A/1A.

Ex II2 G Ex eb IIC Gb

-25 °C ≤ Tservice ≤ + 80 °C
-45 °C ≤ Tservice ≤ + 80 °C

Zone 1 and Zone 2

E-10

HL0105 - Series explosion-proof switch button model



- ◇ Material: aluminum or stainless steel;
- ◇ Button contact module with self-cleaning function;
- ◇ Button contacts for the modular card, up to 6 groups;
- ◇ Button contact module with the button head buckle structure, easy disassembly, Can be rotated to adjust the same direction, easy wiring;
- ◇ Flameproof enclosure should be used in combination, can not be used alone;
- ◇ Maximum voltage/maximum current: 690VAC/2A;
- ◇ Rating: Ui = 690V, Ith = 10A;
- ◇ Button head code:
A1-standard button, A3-emergency stop button,
A4-mushroom head button, B1-knob,
Y0-key mushroom head button, Y1-keyed knob;
- ◇ Thread: M32 × 1.5;
- ◇ According to the requirements can be marked with a box or protective cover.

Ex II2 G Ex db IIC Gb

Ex II2 D Ex tb IIIC Db

Zone 1 and Zone 2

Zone 21 and Zone 22

-40 °C ≤ Tservice ≤ + 100 °C

IP66

E-11



HL0105-A Series explosion-proof switch button model



HL0105-B1 Series explosion-proof switch button model



HL0103-D Series explosion-proof potentiometer



HL0106-Series explosion-proof signal lamp model



- ◇ Aluminum alloy or stainless steel enclosure, equipped with buttons and indicator modules;
- ◇ Polycarbonate injection molding transparent parts ;
- ◇ Button contact module is equipped with wiping action to realize the self-cleaning function;
- ◇ Button contacts and indicator are equipped with modularization card installed, which is very simple and flexible to install. The switch contacts can be added up to 4 sets modules as required;
- ◇ Button contact module and button operation head adopt buckle structure, which is very simple and flexible for disassembly and assembly. After the installation of button contact module and button head, the button contact and indicator modules can be rotated and adjusted in the same direction, making wiring more convenient and beautiful;
- ◇ It shall be equipped with flame-proof box, and not be used alone in the explosive gas and combustible dust environment;
- ◇ Button rated capacity: AC-15:120V/8A, 230V/6A, 400V/4A, 690V/2A; DC-13:24V/5A, 125V/1.1A, 250V/0.55A;
- ◇ Button rated value :Ui=690V Ith=10A;
- ◇ Indicator rated power(W): ≤1;
- ◇ Indicator light source: LED;
- ◇ Terminal wire diameter: 0.5~2.5mm²;
- ◇ Thread: M32 × 1.5.

Ex II2 G Ex db IIC Gb
Ex II2 D Ex tb IIIC Db

Zone 1 and Zone 2
Zone 21 and Zone 22

-40 °C ≤ Tservice ≤ +100 °C

IP66

E-12

- ◇ Aluminum alloy or stainless steel enclosure, equipped with buttons modules;
- ◇ Button contact module is equipped with wiping action to realize the self-cleaning function;
- ◇ Button contacts is equipped with modularization card installed, which is very simple and flexible to install, and can be added up to 4 sets modules as required;
- ◇ Button contact module and button operation head adopt buckle structure, which is very simple and flexible for disassembly and assembly.
- ◇ It shall be equipped with the flameproof box, and not be used alone in the explosive gas and combustible dust environment;
- ◇ Switch handle: two position, three position, three position left and right self-reset, three position right reset;
- ◇ Rated capacity: AC-15:120V/8A, 230V/6A, 400V/4A, 690V/2A; DC-13:24V/5A, 125V/1.1A, 250V/0.55A;
- ◇ Rated value :Ui=690V Ith=10A;
- ◇ Terminal wire diameter: 0.5~2.5mm²;
- ◇ Thread: M32 × 1.5.

Ex II2 G Ex db IIC Gb
Ex II2 D Ex tb IIIC Db

Zone 1 and Zone 2
Zone 21 and Zone 22

-40 °C ≤ Tservice ≤ +100 °C

IP66

E-13

- ◇ Aluminum alloy or stainless steel enclosure;
- ◇ Equipped with potentiometer;
- ◇ Threaded one-piece structure, easy and quick installation and maintenance;
- ◇ It shall be equipped with the flameproof box, and not be used alone in the explosive gas and combustible dust environment;
- ◇ Single turn rated power: 2W, Value: 1, 2, 5, 10, 20, 50, 100, 200, 500, 1000, 2000 kΩ;
- ◇ Multiturn rated power: 2 w, resistance: 1, 2, 5, 10, 20, 50, 100 kΩ;
- ◇ Thread: M32 × 1.5.

Ex d II B Gb
Ex tD A21

Ex d II C Gb
Ex tD A21

Zone 1 and Zone 2
Zone 21 and Zone 22

IP66

E-14

- ◇ Shade material: PC;
- ◇ Shade color: red, green, yellow, white, blue;
- ◇ LED indicator, long life ≥ 50000 hours;
- ◇ Flameproof enclosure should be used in combination, can not be used alone;
- ◇ Can be marked on the box with the request;
- ◇ Thread: M32 × 1.5;
- ◇ Code / Rated voltage (V): 01/AC/DC6, 02/AC/DC12, 03/AC/DC24, 04/AC/DC36, 05/AC/DC48, 06/AC/DC110, 07/AC/DC127, 08/AC/DC220, 09/AC220, 10/AC380;
- ◇ Output power (W): ≤1.

Ex II2 G Ex db IIC Gb
Ex II2 D Ex tb IIIC Db

Zone 1 and Zone 2
Zone 21 and Zone 22

-40 °C ≤ Ta ≤ +60 °C
-40 °C ≤ Tservice ≤ +100 °C

IP66

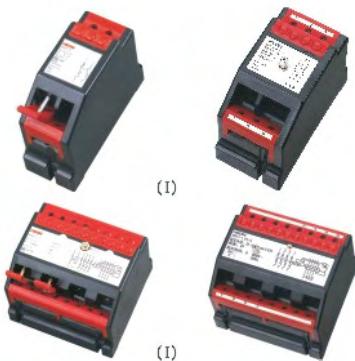
Note: Test report available.

E-15

HL0107-Series explosion-proof signal lamp model



8051-(L) Series explosion-proof anticorrosion circuit breaker



8052-Series explosion-proof AC contactor



8053-Series explosion-proof anti-corrosion thermal relay



8054-Series explosion-proof motor protector



- ◊ Shade material: PC;
- ◊ Shade color: red, green, yellow, white, blue;
- ◊ Shell Material: Anodized aluminum alloy surface, or stainless steel;
- ◊ Built-in LED, long life ≥ 50000 hours;
- ◊ Supporting the use of explosion-proof enclosure, can not be used alone;
- ◊ Thread: M32 \times 1.5;
- ◊ Code/Rated voltage (V):
01/AC/DC12 ~ 36, 02/AC / DC48 ~ 127,
03/AC220 ~ 415, 04/DC220 ~ 250;
- ◊ Output power (W): ≤ 1 ;
- ◊ Can be marked on the box with the request.

Ex II G Ex db eb IIC Gb
Ex II D Ex tb IIIC Db

Zone 1 and Zone 2
Zone 21 and Zone 22

-40 °C $\leq Ta \leq +70$ °C
-40 °C $\leq T_{service} \leq +100$ °C

IP66 , IP20

E-16

- ◊ GRP shell;
- ◊ Built-in Schneider iC65 series of small circuit breakers, a short circuit, overload protection;
- ◊ According to the requirements can be with leakage protection;
- ◊ Shell has a main terminal contacts, electrical accessories contacts and operating handle;
- ◊ I-type product module can be padlocked;
- ◊ Matching with the explosion-proof shell supporting the use, can not be used alone;
- ◊ Rated voltage (V): 220 ~ 250, 380 ~ 415;
- ◊ Rated current (A): 1, 2, 4, 6, 10, 16, 20, 25, 32, 40, 50, 63;
- ◊ Pole number: 1P, 2P, 3P, 4P, 1P + N, 3P + N;
- ◊ Drain electrode number: 2PL, 3PL, 4PL.

Ex d e II C Gb

Zone 1 and Zone 2

IP20

E-17

- ◊ GRP shell;
- ◊ Built-Schneider AC contactor or mechanical interlock;
- ◊ Shell has a main contact, coil contacts and auxiliary contacts;
- ◊ Matching with the explosion-proof shell supporting the use, can not be used alone;
- ◊ Rated voltage (V): 380;
- ◊ Coil voltage (V): 24, 48, 110, 220 ~ 230, 380 ~ 400;
- ◊ Rated current (A): 9, 12, 18, 25, 32.

Ex d e II C Gb

Zone 1 and Zone 2

IP20

E-18

- ◊ GRP shell;
- ◊ built-in thermal relay, with the motor overload and phase failure protection;
- ◊ shell has a main terminal contacts, auxiliary contacts and current release adjustment axis;
- ◊ matching with the explosion-proof shell supporting the use, can not be used alone;
- ◊ Rated voltage (V): 380;
- ◊ thermal relay setting range (A): 0.1~0.16, 0.16 ~ 0.25, 0.25~0.4, 0.4~0.63, 0.63~1, 1~1.6, 1.6~2.5, 2.5~4, 4~6, 5.5~8, 7~10, 9~13, 12~18, 16~24, 23~32.

Ex d e II C Gb

Zone 1 and Zone 2

IP20

E-19

- ◊ GRP shell;
- ◊ Built-in motor protection switch, with over-current tripping, short-circuit tripping and phase loss sensitive features and can configure the undervoltage tripping module;
- ◊ shell has a main terminal contacts, auxiliary contacts, operating handle and current release adjustment axis;
- ◊ Matching with the explosion-proof shell supporting the use, can not be used alone;
- ◊ Rated voltage (V): 380;
- ◊ Overload release setting range (A): 0.1~ 0.16, 0.16~0.25, 0.25~0.4, 0.4~0.63, 0.63~1, 1~1.6, 1.6~2.5, 2.5~4, 4~6.3, 6.3~10, 10~16, 16~20, 20~25.

Ex d e II C Gb

Zone 1 and Zone 2

IP20

E-20

8055-Series explosion-proof intermediate relay



- ◇ GRP shell;
- ◇ Built-in small relays, in the control circuit to control a variety of coils and as a signal amplification and transmission;
- ◇ Shell with terminal contacts and coil contacts;
- ◇ Matching with the explosion-proof shell supporting the use, can not be used alone;
- ◇ Rated voltage (V): AC24~220/240, DC24~100/110;
- ◇ Fixed coil voltage (V): AC: 12/24/36/100/110/220/240; DC: 12/24/100/110;
- ◇ Contact capacity: 5A, DC24V/AC220V.

Ex d e II C Gb

Zone I and Zone 2

IP20

E-21

8056-Series explosion-proof anti-corrosion time relay



- ◇ GRP shell;
- ◇ Built-in time relay, delay control in the control circuit;
- ◇ Shell with terminal contacts, coil contacts and time to adjust the shaft;
- ◇ Matching with the explosion-proof shell supporting the use, can not be used alone;
- ◇ Rated voltage (V): AC24 ~ 220/240, DC12 ~ 100/110;
- ◇ Coil voltage: AC: 24/36/48/100/110/220/240
DC: 12/24/100/110;
- ◇ Contact capacity: 5A, 250VAC;
- ◇ Time specifications: 0.5, 1, 5, 10, 30, 60, 120 S, 3, 5, 10, 30, 60, 180 min.

Ex d e II C Gb

Zone I and Zone 2

IP20

E-22

8057-Series explosion-proof anti-corrosion surge protector



- ◇ GRP shell;
- ◇ built-in surge protector to protect the low-voltage distribution system to prevent the impact of transient surge voltage due to indirect lightning or switching operations;
- ◇ Suitable for TN-C, TN-S and Tt systems;
- ◇ Shell with terminal contacts;
- ◇ Matching with the explosion-proof shell supporting the use, not alone;
- ◇ Main technical parameters.

Maximum discharge current	10KA	20KA	40KA	65KA	80KA	120KA
Nominal discharge current.	5KA	10KA	20KA	35KA	40KA	60KA
Pole	IP, 2P, 3P, 4P, 1P+N, 3P+N			1P, 2P, 3P, 4P		

Ex d e II C Gb

Zone I and Zone 2

IP20

E-23

HL0231-PM Control device for pressurized distribution boxes



- ◇ Shell material: stainless steel, the surface brushed;
- ◇ Panel installation (Concealed): and pressure cabinet cabinet inlay one, simple and fine appearance;
- ◇ Silicone rubber seal, high and low temperature resistance, aging resistance;
- ◇ Built-in explosion-proof: control module, display, pressure sensors, solenoid valves, etc .;
- ◇ Modular, standardized structure, digital integrated control, powerful function, parameters (such as pressure, ventilation time, etc.) can be set on the panel operation, fast and convenient, shorten the delivery, easy installation and maintenance, and has a password lock function to prevent non-professionals misuse, a key mode of operation, easy to operate;
- ◇ With automatic control, to provide remote power, alarm and power-down signals (each of a pair of passive contacts), powerful function, digital integrated control, spring-loaded terminals screwdriver with wrenching, wiring more convenient;
- ◇ Color display, Chinese or English display optional, display flow parameters, pressure parameters, working conditions, warning messages and operating conditions;
- ◇ It can be used with explosion-proof pressure relief device, flame arrester, explosion-proof flow sensor, explosion-proof sound and light alarm, etc.
- ◇ Rated voltage (V): 220, 230, 240;
- ◇ Passive switch contacts: 5A 250VAC, 28VDC;
- ◇ Power inlet/cable diameter: M20×1.5/φ 10~φ 14mm;
- ◇ Passive switch inlet/cable diameter: M12×1.5/φ 4~φ 8mm;
- ◇ Inlet thread: NPT3/8.

Ex d e ib mb [px] II C Gb

Ex ibD mD [pD] tD A21

Zone I and Zone 2

Zone 21 and Zone 22

*: Required when ordering.

E-24

HL0231-VM Control device for pressurized distribution boxes



- ◇ Shell material: stainless steel, the surface brushed;
- ◇ Device box cover with built-in stainless steel hinge, anti-fall stainless steel fastening screws, easy installation and maintenance;
- ◇ Wall-mounted installation, installed in the pressure cabinet side of the cabinet, saving cabinet space, disassembly, easy maintenance, simple and fine appearance;
- ◇ Silicone rubber seal, high and low temperature resistance, aging resistance;
- ◇ Built-in explosion-proof: control module, display, pressure sensors, solenoid valves, etc .;
- ◇ Modular, standardized structure, digital integrated control, powerful function, parameters (such as pressure, ventilation time, etc.) can be set on the panel operation, fast and convenient, shorten the delivery, easy installation and maintenance, and has a password lock function to prevent non-professionals misuse, a key mode of operation, easy to operate;
- ◇ With automatic control, to provide remote power, alarm and power-down signals (each of a pair of passive contacts), powerful function, digital integrated control, spring-loaded terminals screwdriver with wrenching, wiring more convenient;
- ◇ Color display, Chinese or English display optional, display flow parameters, pressure parameters, working conditions, warning messages and operating conditions;
- ◇ It can be used with explosion-proof pressure relief device, flame arrester, explosion-proof flow sensor, explosion-proof sound and light alarm, etc.;
- ◇ Rated voltage (V): 220, 230, 240;
- ◇ Passive switch contacts: 5A 250VAC/28VDC;
- ◇ Power inlet/cable diameter: M20×1.5/φ 10~φ 14mm;
- ◇ Passive switch inlet/cable diameter: M12×1.5/φ 4~φ 8mm;
- ◇ Inlet thread: NPT3/8.

Ex d e ib mb [px] II C Gb
Ex ibD mD [pD] tD A21

Zone 1 and Zone 2
Zone 21 and Zone 22

*: Required when ordering.

HL0231-VM-A Control device for pressurized distribution boxes



- ◇ Shell material: stainless steel, the surface brushed;
- ◇ Device box cover with built-in stainless steel hinge, anti-fall stainless steel fastening screws, easy installation and maintenance, simple and fine appearance;
- ◇ Wall-mounted, installed in the pressure chamber vice cavity, disassembly, easy maintenance;
- ◇ Silicone rubber seal, high and low temperature resistance, aging resistance;
- ◇ Built-in explosion-proof: control module, display, pressure sensors, solenoid valves, etc .;
- ◇ Modular, standardized structure, digital integrated control, powerful function parameters (such as pressure, ventilation time, etc.) can be set on the panel operation, fast and convenient, shorten the delivery, easy installation and maintenance, and has a password lock function to prevent non-professionals misuse, a key mode of operation, easy to operate;
- ◇ With automatic control, to provide remote power, alarm and power-down signals (each of a pair of passive contacts), powerful function, digital integrated control, spring-loaded terminals screwdriver with wrenching, wiring more convenient;
- ◇ Color display, Chinese or English display optional, display flow parameters, pressure parameters, working conditions, warning messages and operating conditions;
- ◇ It can be used with explosion-proof pressure relief device, flame arrester, explosion-proof flow sensor, explosion-proof sound and light alarm, etc.;
- ◇ Rated voltage (V): 220, 230, 240;
- ◇ Passive switch contacts: 5A 250VAC/28VDC;
- ◇ Power inlet/cable diameter: M20×1.5/φ 10~φ 14mm;
- ◇ Passive switch inlet/cable diameter: M12×1.5/φ 4~φ 8mm;
- ◇ Inlet thread: NPT3/8.

Ex d e ib mb [px] II C Gb
Ex ibD mD [pD] tD A21

Zone 1 and Zone 2
Zone 21 and Zone 22

*: Required when ordering.

E-25

E-26

HL0231-VM-B Control device for pressurized distribution boxes



- ◇ Shell material: stainless steel, the surface brushed;
- ◇ Device box cover with built-in stainless steel hinge, anti-fall stainless steel fastening screws, easy installation and maintenance;
- ◇ Wall-mounted, installed in the pressure cabinet side of the cabinet, saving cabinet space, the front display, numerical display will be intuitive, simple and fine appearance;
- ◇ Silicone rubber seal, high and low temperature resistance, aging resistance;
- ◇ Built-in explosion-proof: control module, display, pressure sensors, solenoid valves, etc .;
- ◇ Modular, standardized structure, digital integrated control, powerful function, parameters (such as pressure, ventilation time, etc.) can be set on the panel operation, fast and convenient, shorten the delivery, easy installation and maintenance, and has a password lock function to prevent non-professionals misuse, a key mode of operation, easy to operate;
- ◇ With automatic control, to provide remote power, alarm and power-down signals (each of a pair of passive contacts), powerful function, digital integrated control, spring-loaded terminals screwdriver with wrenching, wiring more convenient;
- ◇ Color display, Chinese or English display optional, display flow parameters, pressure parameters, working conditions, warning messages and operating conditions;
- ◇ It can be used with explosion-proof pressure relief device, flame arrester, explosion-proof flow sensor, explosion-proof sound and light alarm, etc.;
- ◇ Rated voltage (V): 220, 230, 240;
- ◇ Passive switch contacts: 5A 250VAC/28VDC;
- ◇ Power inlet/cable diameter: M20×1.5/φ 10~φ 14mm;
- ◇ Passive switch inlet/cable diameter: M12×1.5/φ 4~φ 8mm;
- ◇ Inlet thread: NPT3/8.

Ex d e ib mb [px] II C Gb
Ex ibD mD [pD] tD A21

Zone 1 and Zone 2
Zone 21 and Zone 22

*: Required when ordering.

E-27

HL0231-BP Control device for pressurized distribution boxes



- ◇ Shell material: stainless steel, the surface brushed;
- ◇ Device box cover with built-in stainless steel hinge, anti-fall stainless steel fastening screws, easy installation and maintenance;
- ◇ Top-mounted, saving cabinet space, disassembly, easy maintenance, simple and fine appearance;
- ◇ Silicone rubber seal, high and low temperature resistance, aging resistance;
- ◇ Built-in explosion-proof: control module, display, pressure sensors, solenoid valves, etc .;
- ◇ Modular, standardized structure, digital integrated control, powerful function, parameters (such as pressure, ventilation time, etc.) can be set on the panel operation, fast and convenient, shorten the delivery, easy installation and maintenance, and has a password lock function to prevent non-professionals misuse, a key mode of operation, easy to operate;
- ◇ With automatic control, to provide remote power, alarm and power-down signals (each of a pair of passive contacts), powerful function, digital integrated control, spring-loaded terminals screwdriver with wrenching, wiring more convenient;
- ◇ Color display, Chinese or English display optional, display flow parameters, pressure parameters, working conditions, warning messages and operating conditions;
- ◇ It can be used with explosion-proof pressure relief device, flame arrester, explosion-proof flow sensor, explosion-proof sound and light alarm, etc.;
- ◇ Rated voltage (V): 220, 230, 240;
- ◇ Passive switch contacts: 5A 250VAC/28VDC;
- ◇ Power inlet/cable diameter: M20×1.5/φ 10~φ 14mm;
- ◇ Passive switch inlet/cable diameter: M12×1.5/φ 4~φ 8mm;
- ◇ Inlet thread: NPT3/8.

Ex d e ib mb [px] II C Gb
Ex ibD mD [pD] tD A21

Zone 1 and Zone 2
Zone 21 and Zone 22

*: Required when ordering.

E-28

HL0232-01 Positive pressure type explosion-proof control module



- ◇ Injection molding GRP enclosure, fine appearance;
- ◇ Automatic control, remote power transmission, alarm and power off signal (each 1 pair electrical independent contact), powerful, digital integrated control;
- ◇ Patented modular, standardized structure, spring terminal screw with free spanner press type wiring, easy installation and maintenance;;
- ◇ Used with explosion-proof pressure sensor, explosion-proof flow sensor, explosion-proof electromagnetic valve, explosion-proof sound and light alarm;
- ◇ Rated voltage (V) : 220,230,240;
- ◇ Electrical independent contacts: 5A 250VAC/28VDC.

Ex e ib mb IIC Gb
Ex pD A21

Zone 1 and Zone 2
Zone 21 and Zone 22

IP20

E-29

HL0232-02 Explosion-proof display screen



- ◇ Injection molding GRP enclosure, fine appearance;
- ◇ Built-in color screen, display pressure, flow, warning information and operation , color display intuitive and readable, convenient on-site adjustment and processing;
- ◇ Patented modular, standardized structure, small size, light weight, easy installation, fine appearance.

Ex e IIC Gb
Ex pD A21

Zone 1 and Zone 2
Zone 21 and Zone 22

E-30

HL0232-05 Explosion-proof flow transducer



- ◇ Brass enclosure, nickel plated surface, excellent corrosion resistance performance, fine appearance;
- ◇ Detect the flow rate when purging, and ensure that ventilation rate to meet the design requirements;
- ◇ Standardized, modular structure, small size, easy installation.

Ex ib IIC Gb
Ex pD A21

Zone 1 and Zone 2
Zone 21 and Zone 22

E-31

HL0232-06 Explosion-proof pressure relief device



- ◇ Aviation aluminum enclosure, anti-corrosion surface treatment, fine appearance;
- ◇ Prevent the pressure inside the cabinet is too high to flush cabinet or damage components (such as touch screen), and ensure the safety of the cabinet or components;
- ◇ Modular, standardized structure, small size, easy installation. Two kinds of pressure are available for choice.

E-32

HL0232-07 Explosion-proof Flame Arrestor



- ◇ Aviation aluminum enclosure, anti-corrosion surface treatment, fine appearance;
- ◇ Direct exhaust of ventilated positive pressure cabinet on site to ensure site safety;
- ◇ Inlet and outlet of the air volume with vernier device, more accurate and convenient adjustment;
- ◇ Modular, standardized structure, small size, adjustable air volume (ventilation type), easy installation.

E-33

HL0232-03 Explosion-proof Pressure Sensor



- ◇ Injection molding GRP enclosure, fine appearance;
- ◇ Detect the micro differential pressure inside the positive pressure cabinet, reliable and stable performance imported component;
- ◇ Modular, standardized structure, small size, space saving, separate shell protection to prevent extrusion and collision, easy installation.

Ex ib IIC Gb
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Zone 1 and Zone 2
Zone 21 and Zone 22

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CHINA HELEN EXPLOSION-PROOF ELECTRIC CO.,LTD.

Add: No.477, Jingqi Road Economic Development Zone, Yueqing City,
Zhejiang Province, China.

Tel: +86-577-6226 6666

Fax: +86-577-6266 0606

Sales Tel: +86-577-5577 1033 6266 0610

Sales Fax: +86-577-6266 0606

[Http://www.helonex.com](http://www.helonex.com)

E-mail:helonex@helon.cc



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