GOALTEK

OPERATING INSTRUCTIONS

ExMP32R
Explosion-Proof Torch



SHENZHEN GOALTEK ELECTRIC CO., LTD.

PURPOSE OF THESE INSTRUCTIONS

- Working in hazardous areas, the safety of personnel and plant depends on complying with all relevant safety regulations.
- Staff working on assembly and maintenance therefore have a particular responsibility. It requires precise knowledge of the applicable standards and regulations.
- These instructions give a brief summary of the most important safety measures. It supplements the corresponding regulations which the staff must study.

SAFETY INSTRUCTIONS

- Use this series explosion-proof torch fittings only for its intended purpose.
- ExMP32R explosion-proof torch is not suitable for hazardous areas in Zone 0 or Zone 20!
- Incorrect or impermissible use or non-compliance with these instructions invalidates our warranty provision.
- No changes to the device impairing its explosion-proof performance are permitted.
- Use the Explosion-Proof torch only if they are clean and undamaged.
- Any damage can invalidate the Ex-performance.
- Observe the following during installation and operation:
  - National safety regulations;
  - National accident prevention regulations;
  - National installation regulations(e.g. IEC 60079-14);
  - Generally recognized technical regulations;
  - Safety guidelines in these operating instructions;
  - Characteristic values given on this Explosion-Proof torch.

CONFORMITY TO STANDARDS

This Explosion-Proof Torch is designed, manufactured and tested in accordance with ISO 9001.
The Explosion-Proof Torch complies with the following regulations of ATEX DIRECTIVE 2014/34/EU and following standards:

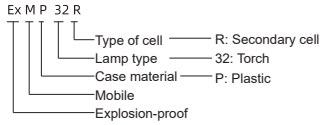
IEC 60079-0: 2017	EN IEC 60079-0: 2018
IEC 60079-11: 2011	EN 60079-11: 2012

APPLICABLE SCOPE

The Explosion-Proof torch is widely used in oil mining, petrochemical, power grid, metallurgy, railway, subway, military industry, police, fire protection, water conservancy, coal mine, manufacturing and other flammable and explosive indoor and outdoor dangerous places. It is designed to be used in all industrial areas and to provide specific portable lighting for patrol woks, inspection works, rescue operations, construction works, etc.

TECHNICAL DATA

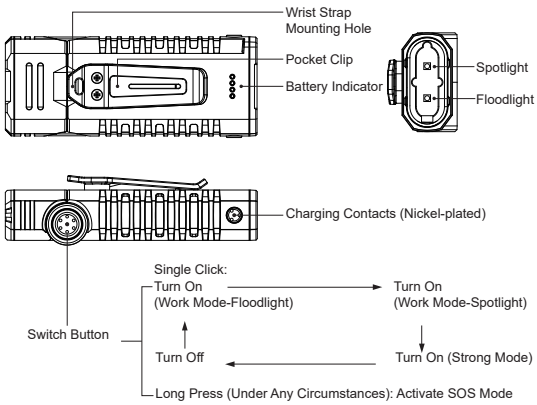
- Model and implication



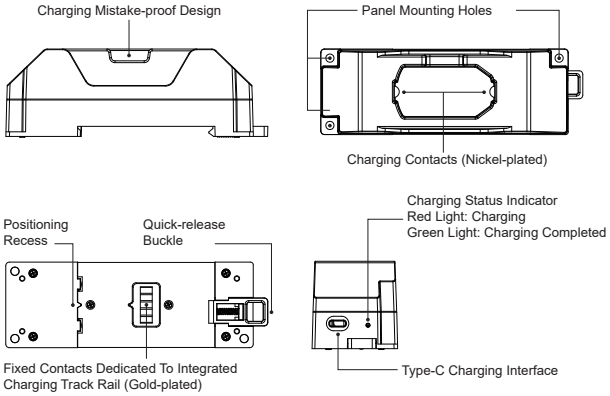
- Basic technical data:
  - Ex mark: Ⓔx I M2 Ex ib I Mb
    Ⓔx II 2 G D Ex ib IIC T4 Gb Ex ib IIIB T130°C Db
  - Intended use: Class I, Class II Zone 1, 2, Class III Zone 21, 22
  - Certificate: ATEX: DNV 23 ATEX 92608X IECEx: IECEx DNV 23.0029X
  - Degree of protection: IP66, IP67 (1m, 30min)
  - Ambient temperature: -40°C to +55°C
  - Battery: Li-ion Rated voltage: 3.6V d.c., Rated capacity, 6700mAh, 24.12Wh
    Um(for charging): 5V d.c.
  - Luminous flux: Work mode (Constant): ≥110lm (Floodlight), ≥110lm (Spotlight); Strong mode: ≥220lm
  - Duration time: Work mode: ≥27h (Floodlight), ≥27h (Spotlight); Strong mode: ≥14h

- Structure features:
  - Intrinsically safe explosion-proof design, which can be safely used in explosive atmospheres Class I, Class II Zone 1, 2, Class III Zone 21, 22 and other professional occasions used mobile lightings.
  - High-power LED light source, high light efficiency, long life, average service life up to 50,000 hours, long-term maintenance-free.
  - High-energy lithium-ion battery, excellent charge and discharge performance, low self-discharge rate, no pollution.
  - Made of high-quality imported Nylon and with optimized structural design, it is impact-resistant, waterproof, dustproof, insulated, resistant to oil and corrosion.
  - Small in size, light in weight, with a reliable structure that conforms to ergonomic design, it can be used in various ways such as handheld, hand rope, chest hanging etc.
  - Large button made of high-quality Nylon material, easy to operate with gloves, excellent wear-resistance and scratch-resistance, not be damaged for frequent and long-term use.

INSTRUCTIONS



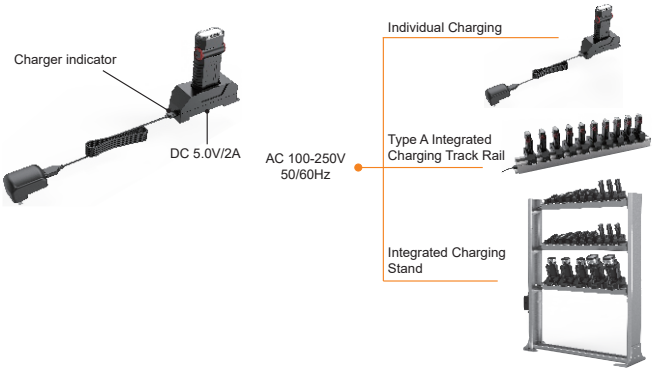
* Charging base is not included in the minimum order unit and needs to be purchased separately.



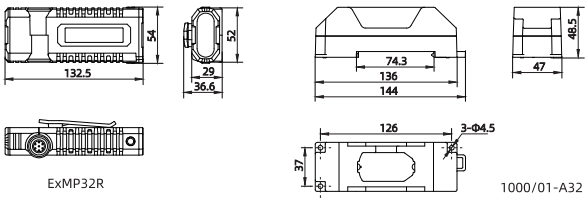
- Illuminating:
  1. Press the button, the floodlight turns on. Press the button again, the spotlight turns on. Press the button once more, both lights turn on at the same time for high brightness. Press the button again to turn off the light. And cycle in turn.
  2. Press and hold the button for more than 3 second to activate the SOS flashing mode. Press the button again to turn off the light.
- Caution:
  Each grid of the power indicator light represents 25% of the battery level. One indicator light on means 25% battery level; two indicator lights on means 50% battery level; three indicator lights on means 75% battery level; four indicator lights on means 100% battery level. When the battery level is lower than 10%, the indicator light flashes.
- Charging description: with 1000/01-A32 dedicated charging base. The charging base has a charging indicator, red means charging, green means full power; During the charging process, the power indicator light of the lamp will flash; To judge whether the power of the lamp is full, please take the charging base indicator light as the standard.
- The charging base has 2 charging input ports: DC 5.0V/2A and a dedicated integrated charging port at the bottom.
- Optional A-type integrated charging bridge or integrated charging rack charging.
- The lamp should be charged timely after each use to ensure that the battery is always in a full power state.

- Angle adjustment:
  Twist the lamp head to adjust the angle of the light to 0°, 10°, 20°, 30°, 40°, 50°, 60°, 70°, 80°, or 90°.





◎ Dimensions



PRECAUTIONS

- Upon receiving, please inspect carefully for any product damage that may have occurred during transportation, such as scratches on the casing, cracks, broken glass and light sources.
- After unpacking the product, please check if all the accessories in the packaging box are complete.
- Keep away from heat sources and fire, and do not drop the battery.
- When disassembling and maintaining the lamp, it must be operated by a professional in a safe place, and non-professionals are strictly prohibited from repairing the lamp.
- When carrying and transporting the packaging, please ensure that the switch/button is not affected by external forces and prevent the switch/button from mis-operating.
- When the lamp is working continuously, a slight temperature rise on the surface is normal.
- Do not put it in strong acid or alkaline environment.
- The lamp should be off when charging.
- If the product has not been used for more than three months, battery maintenance is required. The battery should be fully discharged first, and then charged to complete a charge and discharge cycle.

SPECIFIC CONDITIONS OF USE

- Do not charge the product in hazardous location.
- The charger shall be SELV or PELV certified with output voltage of maximum 5V d.c..
- Do not disassemble the product or replace the battery pack in hazardous location.
- Use original battery provided by Goaltek company: 18650-1S2P-01.
- Use only the matching adapter, AC power cord, charging rail track, and charger provided by the Shenzhen Goaltek Electric Co., Ltd. Company; using other adapters, AC power cords, charging rail tracks, and charger for this product is strictly prohibited.
  Otherwise, it may cause battery damage, or even cause the battery combustion or explosion.

MAINTENANCE

◎ The design, selection and installation of this product must strictly follow: EN 60079-14: 2014, IEC 60079-14: 2013 standard;
◎ The inspection and maintenance of this product must strictly follow: EN 60079-17: 2014, IEC 60079-17: 2013 standard;
◎ Strictly adhere to your country's control, inspection, and standard regulations. Components that have a significant impact on explosion-proof performance must be inspected with special care. All maintenance and repairs must use original components manufactured by Goaltek Company. Replacement and repair work should only be carried out by professional and qualified personnel.
◎ Any modifications or changes to the original design of this product are not allowed.
◎ If explosion-proof components are damaged, only replace them with the company's parts. If there are any questions about the malfunction, please consult the company or return the product for repair.
◎ When cleaning the lamp, please note that only a damp cloth should be used for wiping.
◎ Repairs/maintenance are strictly prohibited in potentially explosive environments.
◎ Do not replace battery and drive component by customer.
◎ Troubleshooting:

- The torch fails to light:
  Cause: Low battery capacity or the torch is damaged.
  Solution: If the light does not turn on when the button is pressed, the battery is likely drained and needs to be charged promptly. If the lamp still exhibits abnormal behavior, please contact the after-sales service personnel immediately.
- The torch can not charged.
  Cause: The charging base and the lamp are not matched, or the contacts between the lamp and the charging base are not good.
  Solution: Check whether the charging base matches the lamp and whether the contacts between the lamp and the charging base are good.
  If the lamp has other malfunctions, please contact the company in time.

ACCESSORIES/SPARE PARTS

◎ Standard configuration table

Order Number	Explosion-proof Torch	Charger	Adapter	USB to Type-C Power Cable
ExMP32R	●	O	O	O
ExMP32R+A32	●	●	●	●

● : Indicates standard configuration
O : Indicates that it needs to be ordered separately
◎ Only original spare parts as well as original accessories made by Shenzhen Goaltek ylectric Co., Ltd can be used.

DISPOSAL/RECYCLING

The respective valid national regulations for disposal of waste shall be observed when disposing of apparatus!
We are pleased to answer any special questions you may have. Please contact your nearest Goaltek service station.

CHEMICAL COMPATIBILITY

This product involves the following non-metallic materials. Please consider the relevant chemical compatibility.
Plastic case of lamp -PA
Case of charger-PC+ABS
O seal ring-Silicon rubber/fluororubber
Button-PA

TECHNICAL PARAMETERS

Product Model	Luminous Flux	Run Time	Charging Time	Beam Distance	Illuminance (1m)	Central Intensity (1m)
ExMP32R	Work mode (Floodlight) ≥110lm (Spotlight) ≥110lm Strong mode ≥220lm	Work mode (Floodlight) ≥27h (Spotlight) ≥27h Strong mode ≥14h	≤9h	Work mode (Floodlight) ≥51m (Spotlight) ≥66 m Strong mode ≥85m	Work mode (Floodlight) ≥650lx (Spotlight) ≥1100lx Strong mode ≥1800lx	Work mode (Floodlight) ≥650cd (Spotlight) ≥1100cd Strong mode ≥1800cd

* The above data was obtained under the testing conditions in the Goaltek laboratory environment.

DISCLAIMER

All information is collected under Goaltek laboratory conditions and the user must treat the given values as approximate. The above specifications are subject to change without notice, details of which are available upon request. If you have any other product related questions, please feel free to contact us.