

Drilling and Exploration

Refining and Distribution

Petrochemicals



ALTAIR Family



Flood High



Flood Low



PARALOS provides Design ,Supply Installation and Maintenance of Explosive & Toxic Gas Permanent Systems. Further on, as authorized distributor of MSA (www.msa-europe.com), which is one of the leading and pioneer companies of Gas Detection Systems and PPE in the marine and industry sector, Paralos undertakes apart of the above services, all health and safety training and equipment provision.

Our goal, every single day, is to provide our customers with dependable, high-quality products, instruments, and service to help ensure a safe return home at the end of each work day.



PERMANENT INSTRUMENTS

Sophisticated range of stationary gas detectors and controllers, installed to determine hazardous locations and to trigger safety related measures automatically in case of alarm: visible and/ or audible alarms, switching off equipment, switching on ventilation, etc.



PORTABLE INSTRUMENTS

Appropriate portable measuring instruments can be used to recognize, measure and monitor dangerous concentrations of hazardous substances in the ambient air or explosive mixtures of gases and vapours in the air.



BREATHING PROTECTION

A wide range of full face masks, half masks, filtering facepieces, hoods and visors, as well as Breathing Protection independent of the ambient air, is provided.



HEAD & EYE PROTECTION

For many workplaces and work activities, eye and head protection is mandatory to protect workers from various hazards.



HEARING PROTECTION & PROTECTIVE CLOTHING

In a world of noise, Sound Control products whisper safety. Chemical Protection Suits and accessories



ATEX SMART PHONES & FLASHLIGHTS

In applications of hazardous areas Paralos provides an excellent communication solution with atex smartphones and intrinsically Safe Permissible Polymer Flashlights and Flood lighting fixtures for atex working spaces

OFFICIAL DISTRIBUTOR AND AUTHORIZED SERVICE PROVIDER

FIELDS OF EXPERTISE:

DESIGN SUPPLY AND INSTALLATION OF PERMANENT GAS DETECTION SYSTEMS / PORTABLE DETECTORS

Paralos Trading S.A provides Design, Procurement and Installation of Gas Detection Systems and portable instruments of MSA brand (www.msasafety.com) as official representative. Some of executed projects is listed below.

CLIENT	PERMANENT GAS DETECTION SYSTEMS
HELLENIC PETROLEUM	Design and Supply of Explosive and Toxic Gas Detection System
HELLENIC PETROLEUM (Fyrom Plant)	Design and Supply of Explosive Gas Detection System
ELPEDISON	Permanent Gas Detection Units
LAFARGE GROUP AGET Chalkis Plant	Permanent Gas Detection Units
TITAN Cement Co S.A. Kamari Plant	Design, Supply and Installation of Oxygen Combustible and Toxic Gases Systems
SPECIFAR	Design and Supply of Explosive and Oxygen Gas Detection System
ELPEDISON	Design and Supply of Gas Detection System and Supply of Portable units.
VIOHALCO Group	Design and Supply of Gas Detection System and Supply of Portable units.



CLIENT	PORTABLE GAS DETECTION
HELLENIC PETROLEUM	Portable Gas Detectors for Toxic Gases
MOTOROIL	Portable Gas Detectors for Combustibles, Oxygen and Toxic Gases
KAVALA OIL	Portable Gas Detectors for Combustibles, Oxygen and Toxic Gases
ELPEDISON	Portable Gas Detectors for Combustibles Gases and Oxygen
TITAN Cement	Portable Gas Detectors for Combustible, Oxygen and Toxic Gases
ATERMON – EKME	Portable Gas Detectors for Toxic Gas



OVERALL PPE CLIENT LIST

REFINERIES:

HELLENIC PETROLEUM S.A
MOTOR OIL HELLAS S.A
KAVALA OIL S.A

PHARMACEYTICAL INDUSTRIES:

JOHNSON & JOHNSON S.A
LAVIPHARM S.A
SPECIFAR S.A
DEMO S.A

ENERGY:

DESFA S.A
VESTAS S.A
ENEL S.A
ELPEDISON S.A

NATIONAL CORPS:

HELLENIC ARMY
HELLENIC NAVY
HELLENIC AIR FORCE
FIRE BRIGADE

FOOD INDUSTRIES:

CHIPITA S.A
DELTA FOODS S.A

MINES:

HELLAS GOLD S.A
IMERYS S.A

CONSTRUCTION COMPANIES:

AKTOR S.A
AEGEK S.A
ATERMON-EKME S.A

CEMENT INDUSTRIES:

TITAN S.A
LAFARGE Group S.A
HALYPS Cement S.A

GENERAL HEAVY INDUSTRIES:

VIOHALCO Group
HALYVOYRGIKI S.A
SCHNEIDER ELECTRIC S.A
ALUMIL S.A
FIBRAN S.A
BIC S.A
POLYECO S.A

SHIPPING COMPANIES

TSAKOS SHIPPING
EASTERN MEDITERRANEAN
MARITIME
PRODUCT SA
ELETSON



Protect

Protect people at work

• Shocks

• Noise

• Gas and vapours

• Projectiles

• Particles

• Radiation

• Falls

Detect

Detect to avoid disasters

• Toxic gases

• Combustible gases and vapours

• Oxygen

• Heat

Escape

Escape for emergency situations

• Toxic gases and vapours

• Particles

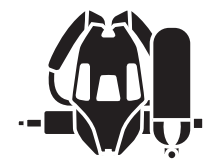
• Fumes

• Oxygen deficiency

MSA – The Safety Company

With operations on 5 continents, over 40 international locations and hundreds of distribution partners around the globe, MSA offers a unique range of safety products for a large number of industries.

Supplied Air Respirators



Air-Purifying Respirators



Head, Eye, Face, Hearing Prot.



Fall Protection



Portable Gas Detection



Fixed Gas & Flame Detection



Thermal Imaging



Trust & Durability

For more than 100 years our passionate mission of safety empowers us, "The SafetyCompany", to protect lives.

We are committed to providing the latest in innovative, best-in-class safety solutions that feature integrated systems capability and allow our customers to return safely to their families and friends.

Every day our customers place their lives in our hands. In response, we provide them with protection they can trust, and their stories become our stories. Hand in hand we partner with our customers to earn that trust.

At MSA, every life has a purpose.

Your direct contact



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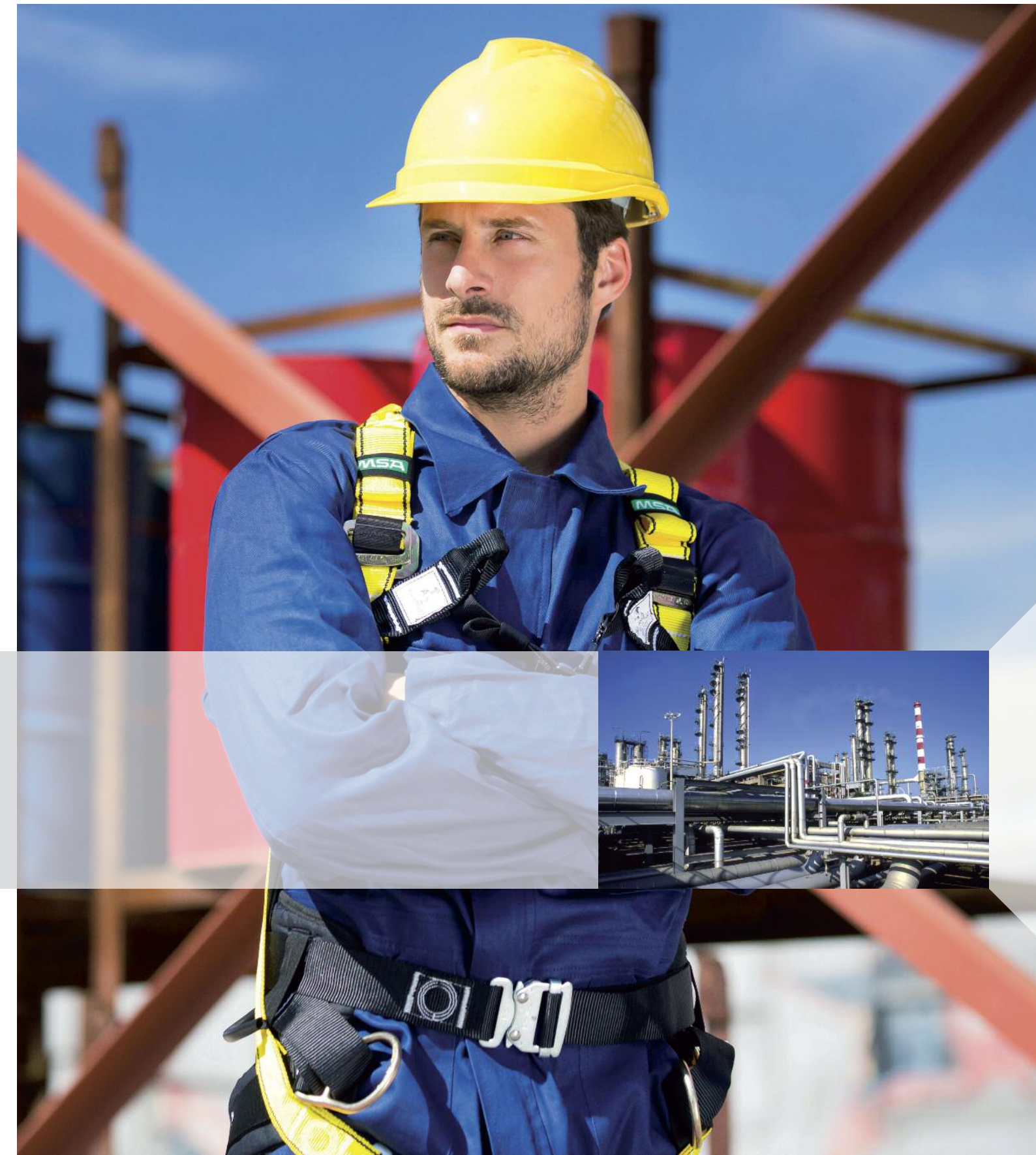
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For contact details of your local MSA affiliate, please visit our website.

MSAsafety.com

MSA Safety Solutions

for Industry



Because every life has a purpose...

MSA – The Safety Company

More than 100 years of experience and capability in comprehensive safety solutions have made MSA a modern and forward-looking company for the protection of people, facilities and the environment.

MSA is a leading provider of innovative and sophisticated products that enhance the safety and health of workers throughout the world, including many industrial applications:

- Construction
- Iron & Steel
- Water Purification
- Electrical Applications & Working at Heights
- Chemical Industry
- Petrochemical & Offshore Industries
- Manufacturing & Handling Industries

Critical to MSA's mission is a clear understanding of customer processes and safety needs.

MSA dedicates significant resources to research, which allows the company to develop a keen understanding of the specific safety requirements for a diverse range of markets.

Providing the best products, services and support protecting the health and safety of people in the workplace. That's MSA's commitment.



Head Protection



Industrial Helmets

Head protection system and accessories

Falling objects, shocks, liquid splashes, electrical hazards

- Use of lifting devices, retrieval of items stored high off the grounds, handling of materials, cable breaking, earthworks



Firefighting & Rescue Helmets

Multifunctional firefighting helmets

Falling objects, fire, flame, fumes

- Firefighting in buildings, tunnels or forest fires, traffic collisions, rescue in hazardous environments

Face Protection



Browguards & Visors

Visors for helmet or headgear adaptation

Impacts, chemical splash, high temperatures, short circuit electric arc, ultraviolet and infrared light

- Handling of hazardous materials, grinding, cutting, varnishing, maintenance of electrical installations

Hearing Protection



Electronic/FM & Passive Ear Muffs

Ear muffs, helmet-mounted ear muffs, foam and banded plugs

Noise, isolation

- High-pressure cleaning, sandblasting, concreting, road surfacing, use of portable electrical, thermal or hydraulic machinery, pneumatic drilling, roadworks

Eye Protection

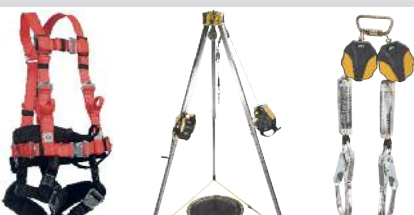


Safety Spectacles & Goggles

Shocks, particles, grains of sand, metal shavings, ultraviolet radiation, liquid or acid splash

- Machining, varnishing, polishing, tightening, assembling, quality review, outdoor activities, handling of hazardous materials

Fall Protection



Fall Protection Equipment

Fall protection equipment and fall arrest systems

Falls from heights

- Confined space, search and rescue, rope access, telecommunications, oil and gas, wind energy, general industry

Respiratory Protection



Air-Purifying Respirators (17% > O₂ > 21%)

Filtering face pieces, half masks and full face masks with particle, gas or combined filters, powered air-purifying respirators

Iron dust, wooden dust, asbestos, silica dust, phytosanitary products, fumes, gas and vapours

- Grinding, sanding, cutting, sweeping, sawing, bagging, machining, welding, brazing, plastering, insulation installation, pharmaceuticals, industrial processes, asbestos environments



Supplied Air Respirators

Breathing apparatus, airline systems

Oxygen deficiency, containment

- Work in confined spaces, work in extreme temperature conditions (cold room, furnace...), sewer operations, tank or silo cleaning, streamlining

Gas Detection



Single-Gas & Multi-Gas Detectors

Especially developed for industrial applications

Combustible gas, O₂, CO, H₂S, SO₂, NO₂, NH₃, Cl₂, ClO₂, NO, HCN, PH₃, CO₂, VOCs

- Confined space, general leak detection, tank maintenance, trenching, manufacturing process emission, refining process, waste/water treatment



Automated Test System

Simple & intelligent testing & calibration

Offers high performances as either a stand-alone unit or an integrated portable detector management

- Field testing, maintenance workshops, Health and Safety Managers from any industry



Fixed Gas Detection

Wall mounted controller and gas monitors

Combustible gases, toxic gases (H₂S, CO, NH₃, Cl₂), oxygen deficiency

- Monitoring of toxic and flammable gases in boiler rooms, engine test beds, and biofuel plants

Gas Detection



Fire & Gas Warning System

SIL systems and Fire & Gas detectors

Combustible gases, toxic gases (H₂S, CO, NH₃, Cl₂), oxygen deficiency, fuel fires, flammable waste

- Monitoring of toxic, flammable gases and fires in petrochemical industries (transport, gas storage, refineries, chemical plants)

Flame Detection



Flame Detector

Multi-IR or UV-IR detector

Hydrocarbon fires and gas fires

- Monitoring and detection of flame in aviation hangars, oil rigs, hydrocarbon storehouses, gas carriers and pressure stations

Environment



Refrigerant Leak Detection Monitor

IR photoacoustics technology

Refrigerant fluids, hydrocarbon vapours

- Monitoring of refrigerant concentrations in cold storage installations (food cold storage and air-conditioning), engine test beds

Heat Detection



Thermal Imaging Cameras

Video transmission in option

Hot points, outbreaks

- Fire attack, incident control, hazardous materials, ventilation, search and rescue, wild fires, fire watch

Air-Purifying Escape

(O₂ between 17 and 21 vol %)



Filter Escape Device

Disposable escape device, 5 minutes

Toxic gases or vapours

- Laboratories and factories, storage and transportation of toxic gases or liquids, gas networks, high pressure valves, refrigeration equipment



Smoke & Gases

Escape hood, 15 minutes

Smoke and gases generated by fires (CO), particles

- Rescue teams, escape device for hospitals, rest-homes, hotels, office buildings or assembly rooms

Supplied Air Escape

(O₂ > 21 vol % or < 17 vol %)



Compressed Air Escape Breathing Apparatus

Compressed air, constant flow, escape breathing apparatus, 15 minutes

Toxic gases or fumes, oxygen deficiency, particles

- Urgent escape from hazardous areas: boats, chemical plants, refineries, water purification plants



Self-Contained Breathing Apparatus

Self-contained breathing apparatus for emergency escape

Oxygen deficiency

- On ships or industrial facilities



Chemical Oxygen Self-rescuer

Oxygen self-rescuer, 20, 30 or 60 minutes

Oxygen deficiency

- Carriage of dangerous substances, nuclear power stations, oil rigs, silos, construction and working on tunnels, water purification areas, waste treatment facilities



Intrinsically Safe Permissible Polymer Flashlights

These flashlights are cETLus, ATEX, IECEx, MSHA and INMETRO listed Intrinsically Safe Permissible. They each use a CREE® LED rated at 140 lumens that works in conjunction with a high-efficiency deep parabolic reflector to create a usable flashlight beam rated at 180 meters. The single body switch provides momentary or constant-on functionality. Power comes from 3 AA premium batteries (not included).

**INTRINSICALLY SAFE
PERMISSIBLE**



XPP-5420G

140 Lumens

- cETLus, ATEX, IECEx, MSHA and INMETRO listed Intrinsically Safe Permissible
- Beam distance rated at 180 meters
- Engineered polymer housing



XPP-5420B

XPP 5420 series



Intrinsically Safe Permissible Polymer Flashlights

High-efficiency deep parabolic reflector



XPP-5420G



XPP-5420B

FEATURES

- CREE® LED technology – 50,000 + hours LED life
- Momentary or constant-on flashlight
- Sharp focused beam for distance illumination
- Engineered polymer housing
- Non-slip grip
- Single body switch
- Waterproof
- Impact & chemical resistant
- Built-in pocket/belt clip
- Includes removable lanyard
- Requires 3 AA batteries (not included)
- Available in black & green
- Limited Lifetime Warranty*



Built-in pocket/belt clip



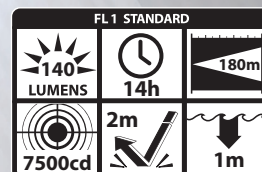
Single body switch



High-efficiency deep parabolic reflector

SPECIFICATIONS

- Lumens: 140
- Run-time: 14 hrs
- Beam distance: 180 meters
- Water rating: IP-X7 waterproof
- Drop rating: 2 meters
- Length: 7in, head diameter: 1.8in, handle diameter: 1.5 x 1.1in, weight: 7.3oz



INCLUDED

- Flashlight with built-in pocket/belt clip
- Removable lanyard

SAFETY RATING

cETLus, ATEX, IECEx, MSHA and INMETRO listed Intrinsically Safe Permissible

Patent 7,738,229



Permissible Nightstick 5420 Flashlight

APPROVAL No. 20-A130001-0

TESTED FOR INTRINSIC SAFETY IN METHANE-AIR MIXTURES ONLY

WARNINGS: 1) MSHA approved for use with three AA Duracell Type PC1500, Energizer Type EN91, and Energizer Type L91 batteries only.

2) Replace the batteries in fresh air only and replace all batteries at the same time. Do not mix batteries from different manufacturers or of different types.

3) Energizer Lithium (Type L91) batteries are to be replaced by a qualified technician only.

4) The Model Nightstick 5420 must not be opened in areas where permissibility is required.

ID 4003544

INTRINSICALLY SAFE

SECURITE INTRINSEQUE

CE 0359

Ex ia I Ma

Ex ia IIC T3 Ga

CLASS I DIV 1 GRPS A-D T3

CLASS II & III DIV 1 GRPS E-G T135C

CLASS I ZONE 0 AEx ia IIC T3 Ga

CLASS I ZONE 0 Ex ia IIC T3 Ga

IECEx ETL 13.0026X

-20°C ≤ Tamb ≤ +40°C

1.5V/Cell AA Alkaline

Ex ia I Ma

Ex ia IIC T3 Ga

CLASS I DIV 1 GRPS A-D T3

CLASS II & III DIV 1 GRPS E-G T135C

CLASS I ZONE 0 AEx ia IIC T3 Ga

CLASS I ZONE 0 Ex ia IIC T3 Ga

IECEx ETL 13.0026X

-20°C ≤ Tamb ≤ +40°C

1.5V/Cell AA Alkaline

Ex ia I Ma

Ex ia IIC T3 Ga

Conforms to:

ANSI/UL STD 913, ANSI/UL 60079-0, ANSI/UL 60079-11, ANSI/ISA 60079-26

Certified to:

CAN/CSA STD C22.2 No 157, CAN/CSA STD C22.2 No 60079-0, CAN/CSA STD C22.2 No 60079-11, CSA STD C22.2 No 25

Model	UPC 0 17398
XPP-5420G	80091 4
XPP-5420B	80092 1

*Limited Lifetime Warranty • Product is warranted to be free from defects in workmanship and materials for the original purchaser's lifetime. The Limited Lifetime Warranty includes the LEDs, housing and lenses. Rechargeable batteries, chargers, switches, electronics and included accessories are warranted for a period of two (2) years with proof of purchase. Disposable, non-rechargeable batteries are excluded from this warranty. Normal wear and failures which are caused by accidents, misuse, abuse, faulty installation and lightning damage are also excluded.