



Pelsan Ex-Proof Lighting and Electrical Equipment Brochure

www.pelsan.com.tr

About Us

Founded **42 years** ago in Istanbul, Pelsan Lighting is one of Turkey's largest manufacturers in the lighting sector, with its impressive figures in production, exports, and employment. Pelsan produces lighting and equipment in a **30,000 m²** closed area with a team of 500 employees. Annually, the company manufactures **5 million lighting units** in its own facilities and exports to **78 countries, primarily in Europe**. Specializing in lighting and electrical equipment developed for explosive environments, Pelsan provides industrial solutions and holds international safety certifications such as ATEX, IECEx, GOST-R, and UL, offering tailored solutions for all explosive gas and dust zones.

Safety

Ensuring the highest level of safety for businesses operating in explosive environments is of great importance. Our products are carefully designed and tested to provide safe working conditions in hazardous areas. Manufactured to prevent explosion risks in such environments, our products are designed according to international standards to ensure the safety of both employees and facilities.

Wide Product Portfolio

Pelsan offers a wide product portfolio for ex-proof solutions. From lighting to electrical equipment, we provide solutions designed for use in hazardous areas across various product categories. To meet the unique needs of each sector and business, we offer a diverse range of products with different technical specifications and applications, providing tailored solutions for every project.

Compliance with Standards

Our products, which fully comply with international safety standards, are certified for reliability and durability with ATEX, IECEx, GOST-R, and UL certifications. By ensuring that equipment used in explosive environments meets the highest quality standards, we provide our customers with internationally recognized solutions. Pelsan closely follows all current legal regulations and standards in the industry, continuously updating its product portfolio to meet these requirements.

Industry-Specific Solutions

Pelsan provides solutions for various sectors, serving a wide range of industries from refineries and chemical plants to power stations and food production facilities. We design ex-proof equipment tailored to the specific challenges and safety needs of each industry, ensuring that business processes continue smoothly and safely. With customized solutions that meet your needs, we are always here to support you.



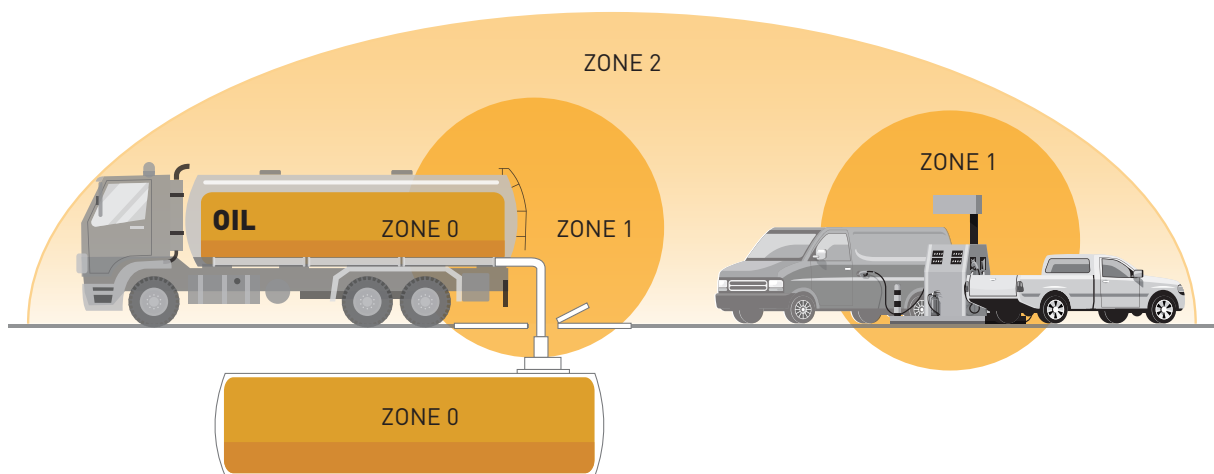
Classification of Hazardous Zones in Explosive Environments

Gas and Vapor Areas

Zone 0: An area where explosive gas/vapor is present continuously or for long periods.

Zone 1: An area where explosive gas/vapor may occasionally occur.

Zone 2: An area where explosive gas/vapor is not normally present, and if it occurs, it is only for short periods during a malfunction.



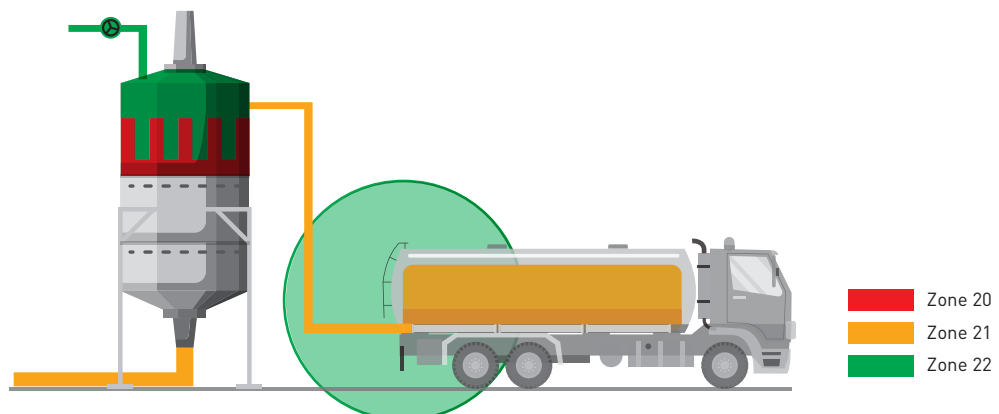
Environments Containing Gas/Vapor: Zone 0, 1, 2

Dust Areas

Zone 20: An area where an explosive dust cloud is present continuously.

Zone 21: An area where an explosive dust cloud may occasionally form.

Zone 22: An area where an explosive dust cloud may rarely occur and, if so, only for short periods.



Environments Containing Dust/Fibers: Zone 20, 21, 22



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You can safely use
Pelsan Ex-Proof products
in chemical and paint facilities, oil storage facilities,
oil loading and unloading terminals, power plants,
industrial facilities, and fuel stations!

”

Zone 1,21,2,22 Lighting Products

Atarex Floodlight & Highbay Lighting



Power (W)	50W-480W
Body	Aluminium Body, IP66
Gas Protection Class	II 2G Ex db IIB T4 Gb
Dust Protection Class	II 2D Ex tb IIIC T130°C Db

0873-0874 Highbay & Road and Street Luminaire



Power (W)	30W-160W
Body	Aluminium Body, IP66 Pole Mounting(25-90)
Gas Protection Class	II 2G Ex de IIC T6 Gb
Dust Protection Class	II 2D Ex tb IIIC T80°C Db

Exta Waterproof & Highbay Lighting



Power (W)	50W-150W
Body	Aluminium Body, IP66
Gas Protection Class	II 2G Ex db IIB T6 Gb
Dust Protection Class	II 2D Ex tb IIIC T85°C Db

*Emergency Lighting Kit Applicable.

RB LED Weatherproof Lighting



Power (W)	25W-100W
Body	GRP Body, IP66
Gas Protection Class	II 2G Ex eb mb op is IIC T4 Gb
Dust Protection Class	II 2D Ex tb IIIC T135°C Db

*Emergency Lighting Kit Applicable.

Exta Exit Emergency Lighting



Power (W)	8W, 3 Hour Emergency Operation Time
Body	Aluminium Body, IP66
Gas Protection Class	II 2G Ex db IIB T6 Gb
Dust Protection Class	II 2D Ex tb IIIC T85°C Db

RB Exit LED Emergency Lighting



Power (W)	25W, 3 Hour Emergency Operation Time
Body	GRP Body, IP66
Gas Protection Class	II 2G Ex db eb mb op is IIC T4 Gb
Dust Protection Class	II 2D Ex tb IIIC T135°C Db

Exit Emergency Lighting



Power (W)	9W Led Tube & 8W Fluorescent 3 Hour Emergency Operation Time
Body	Aluminium Body, IP66
Gas Protection Class	II 2G Ex db IIC T6 Gb
Dust Protection Class	II 2D Ex tb IIIC T85°C Db

EV Series Globe Lighting



Power (W)	E27-E40 Lampholder
Body	Aluminium Body, IP66 Ceiling (45-90) ve Hanger Mounting
Gas Protection Class	II 2G Ex d IIB T4
Dust Protection Class	II 2D Ex tD A21 Tmax

EVO Series Tank Lighting



Power (W)	50W LED - E27 Lampholder
Body	Aluminium Body, IP66
Gas Protection Class	II 2G Ex d IIC T6..T5 Gb
Dust Protection Class	II 2D Ex tb IIIC T65°C.. T90°C Db

EVB-LF, -CR Warning Lighting



Power (W)	12V-24V AC/DC, 220V AC
Body	Aluminium Body, IP66
Gas Protection Class	II 2G Ex d IIB T4
Dust Protection Class	II 2D Ex tD A21 T100°C Db

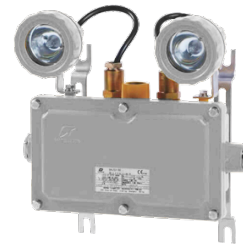
*Red, Blue, Yellow, Green LED Beacon or Strobe

EVP Portable Lighting



Power (W)	E27 Lampholder
Body	Aluminium Body, IP66
Gas Protection Class	II 2G Ex d IIB T4
Dust Protection Class	II 2D Ex tD A21 T100°C Db

BAJ52 Emergency Lighting



Power (W)	2x10W LED
Body	Aluminium Body, IP66
Gas Protection Class	II 2G Ex db IIB T4 Gb
Specifications	90 mn. Emergency Operation Time

Ex-d Control Unit and Junction Box

MU Control Unit and Junction Box



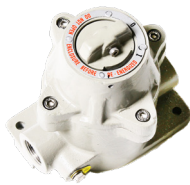
Dimensions	6 Different Sizes from 210x185x153mm to 420x620x338mm
Body	Aluminyum Body, IP65
Gas Protection Class	II 2G Ex d IIB+H2 T6 Gb
Dust Protection Class	II 2D Ex tb IIIC T85°C Db

GUB Junction Box



Dimensions	6 Different Sizes from 130x130x131mm to 336x360x315mm
Body	Aluminium Body, IP66
Gas Protection Class	II 2G Ex d IIB+H2 T6 Gb
Dust Protection Class	II 2D Ex tb IIIC T85°C Db

EFSC Electrical Switch



Specifications	On/Off Pole Changer, Commutator, Two-Way Switch, Multi-Contact, and Up to 32A
Body	Aluminyum Body, IP65
Gas Protection Class	II 2G Ex d IIB T6 Gb
Dust Protection Class	II 2D Ex tb IIIC T65°C Db

EFD Control Box



Specifications	1 Controller Ready Control Unit, Button, Signal Lamp, Potentiometer
Body	Aluminium Body, IP66
Gas Protection Class	II 2G Ex d IIC T6 Gb
Dust Protection Class	II 2D Ex tb IIIC T65°C Db

MUM Control Box



Specifications	2, 3, 4 Controller or Glass Ready Control Unit, Relay, Potentiometer, Button, Signal Lamp, Fuse, Voltmeter, Ammeter
Body	Aluminyum Body, IP65
Gas Protection Class	II 2G Ex d IIB+H2 T6 Gb
Dust Protection Class	II 2D Ex tb IIIC T85°C Db

MUMB Cranes Control Unit



Specifications	Crane Control Unit with 4, 6, or 8 Buttons
Body	Aluminium Body, IP65
Gas Protection Class	II 2G Ex d IIB+H2 T6 Gb
Dust Protection Class	II 2D Ex tb IIIC T85°C Db

GUA
Terminal Box



Specifications	6 Different Sizes from 90x90x61mm to 200x200x122mm with 1, 2, 3, or 4 Entries
Body	Aluminyum Body, IP6X
Gas Protection Class	II 2G Ex d IIB T6 Gb
Dust Protection Class	II 2D Ex t IIIC T85°C Db

FL
Limit Switch



Specifications	Horizontal and Vertical Versions, Wheeled or Shaft Mounted Type
Body	Aluminyum Body, IP65
Gas Protection Class	II 2G Ex d IIC T6 Gb
Dust Protection Class	II 2D Ex tb IIIC T65°C Db

PTC
Static Grounding Device



Specifications	Single Clamp, Contact and Indicator, 220 VAC
Body	Aluminium Body, IP65
Gas Protection Class	II 2G Ex d (Ia) IIB T6 Gb
Dust Protection Class	II 2D Ex t (Ia) IIIC Tmax 85°C Db

ESR
Alarm Sounder



Specifications	12V-24V AC/DC, 220V AC, 90 dB
Body	Aluminium Body, IP65
Gas Protection Class	II 2G Ex d IIB T6 Gb
Dust Protection Class	II 2D Ex tb IIIC T65°C Db

Ex-e Control Unit and Junction Box

GRJ
Control Unit and Junction Box



Dimensions	21 Different Sizes from 80x75x55mm to 600x250x160mm
Body	GRP Body, IP66
Gas Protection Class	II 2G Ex eb ia IIC T6...T4 Gb
Dust Protection Class	II 2D Ex tb IIIC T85°C, T100°C...T135°C Db

RJ
Control Unit and Junction Box



Dimensions	30 Different Sizes from 58x64x24mm to 600x130x180mm
Body	Aluminium Body, IP66
Gas Protection Class	II 2G Ex eb ia IIC T6...T4 Gb
Dust Protection Class	II 2DEx tb IIIC T85°C, T100°C...T135°C Db

0520 Terminal Box



Dimensions	Junction Box with Ready Terminal Block up to 8 Entries, 95x95x70mm and 125x125x70mm
Body	GRP Body, IP66
Gas Protection Class	II 2G Ex eb IIC T6/T5 Gb
Dust Protection Class	II 2D Ex tb IIIC T85°C/T95°C Gb

SRJ Control Unit and Junction Box



Dimensions	44 Different Sizes from 100x100x60mm to 2000x2000x600mm
Body	Stainless Steel Body, IP66
Gas Protection Class	II 2G Ex eb ia IIC T6...T4 Gb
Dust Protection Class	II 2D Ex tb IIIC T85°C, T100°C...T135°C Db

1242 Ready Control Unit



Dimensions	Control Unit Designed According to Customer Request. Button, Signal, Switch, Potentiometer, Ammeter, Voltmeter Available.
Body	GRP Body, IP66
Gas Protection Class	Ex db eb ia/ib mb IIC/IIB/IIB+H ₂ T6...T4 Gb
Dust Protection Class	Ex tb op is IIIC T80°C...T130°C Db

Socket Outlet

FSQC Socket Outlet



Specifications	1-5 Contacts, Up to 10-115A
Body	Aluminum Body, Suitable for Wall and Panel Mounting.
Gas Protection Class	II 2G Ex db IIC T6 Gb
Dust Protection Class	II 2D Ex tb IIIC T65°C Db

0251-0252-0253-0254 Socket Outlet



Specifications	2-5 Contacts, Suitable for Wall, Panel, and Extension Type Mounting, Up to 16-125A
Body	GRP Body, IP66
Gas Protection Class	II 2G Ex de IIC T5/T6 Gb
Dust Protection Class	II 2D Ex tD A21 T80°C/T90°C Db

Connection Equipment

Octans Unarmored Metal Cable Gland



Specifications	Metric and NPT Male Type Option, M12-M130, NPT 1/4" - NPT 5" Wide Size Range
Body	Nickel-Plated Brass, Stainless Steel, Aluminum Body Options, IP66
Gas Protection Class	II 2G Ex db eb IIC Gb
Dust Protection Class	II 2D Ex tb IIIC Db

Orion Armored Metal Cable Gland



Specifications	Metric ve NPT Diş Tipi Opsiyonu, M12-M130, NPT 1/4" - NPT 5" Geniş Boyut Aralığı
Body	Nickel-Plated Brass, Stainless Steel, Aluminum Body Options, IP66
Gas Protection Class	II 2G Ex db eb IIC Gb
Dust Protection Class	II 2D Ex tb IIIC Db

Pavo - Aries - Grus - Apus Coupling - Adapter - Reducer - Enlarger



Specifications	Metric and NPT Male Type Option, M12-M130, NPT 1/4" - NPT 5" Wide Size Range
Body	Nickel-Plated Brass, Stainless Steel, Aluminum Body Options, IP66
Gas Protection Class	II 2G Ex db eb IIC Gb
Dust Protection Class	II 2D Ex tb IIIC Db

Aquila Metal Blind Plug



Specifications	Metric and NPT Male Type Option, M12-M130, NPT 1/4" - NPT 5" Wide Size Range
Body	Nickel-Plated Brass, Stainless Steel, Aluminum Body Options, IP66
Gas Protection Class	II 2G Ex db eb IIC Gb
Dust Protection Class	II 2D Ex tb IIIC Db

Vega Polyamide Cable Gland



Specifications	Metric Male, M12-M63 Wide Size Range
Body	Polyamide Body, IP66
Gas Protection Class	II 2G Ex eb IIC Gb
Dust Protection Class	II 2D Ex tb IIIC Db

Draco Polyamide Blind Plug



Specifications	Metric Male, M12-M63 Wide Size Range
Body	Polyamid Body, IP66
Gas Protection Class	II 2G Ex eb IIC Gb
Dust Protection Class	II 2D Ex tb IIIC Db

Pelsan



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