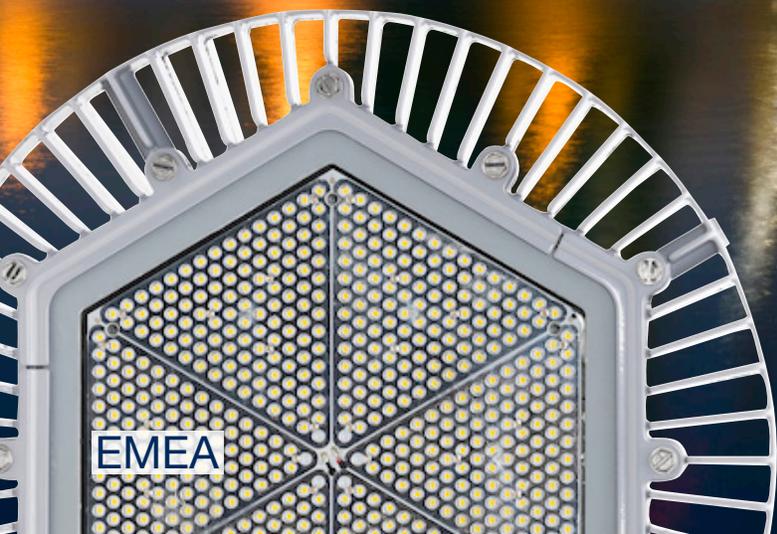


DIALIGHT INDUSTRIAL LED LIGHTING

For Power
Generation
Applications



Dialight

WHY LIGHTING MATTERS in Power Generation Applications

Lighting is of critical importance in Power Generation plants to maximise both safety and productivity. These sites are among the most dangerous places to work due to the presence of volatile chemicals and explosive environments. It is without question that the lighting must be able to prevent and withstand combustible and explosive atmospheres while also providing clear illumination for workers to read colour coded safety labels.



-  Hazardous chemicals
-  High heat
-  Confined spaces
-  Physical hazards, such as slips, falls, and moving objects
-  Arc Flash
-  Flammable and explosive environments

INJURIES, ILLNESSES AND WORKPLACE FATALITIES IN EUROPE

Poor illumination can contribute to tragic work site accidents and injuries. In 2017 alone, Eurostat and the International Labour Organization cited:



The Power Generation industry involves risks and hazards that demand high quality lighting. When choosing a lighting partner for your facilities, care must be taken to ensure their products have proven to perform safely and reliably in your environments and offer a sustainable solution.



DIALIGHT SOLUTIONS for Power Generation Applications

Dialight is the world leader in industrial LED lighting technology with millions of fixtures installed worldwide. We specialise in lighting products designed for the world's harshest industrial environments – enabling industrial customers to reduce their energy costs, maintenance costs, and carbon footprint while maximising the safety and productivity of their employees and facility. From our signature High Bay line to our versatile Linear fixtures, Dialight offers a large selection of rugged products ideally suited for environments found within the Power Generation Industry.



WHERE TO USE DIALIGHT PRODUCTS in Power Generation Applications

- TANK FARMS
- TURBINE DECKS (INDOOR & OUTDOOR)
- MAINTENANCE SHOPS
- CHEMICAL STORAGE
- PROCESS AREAS
- COOLING TOWERS AND STACKS
- ELECTRICAL EQUIPMENT ROOMS
- BOILERS
- WALKWAYS
- CONVEYORS (FOR STANCHION MOUNTS)
- WAREHOUSES AND GENERAL AREAS
- GENERAL FLOOD LIGHTING
- COAL HANDLING
- SWITCH YARDS
- CRANES

See product portfolio pages for more detailed product and ordering information



TECHNOLOGY DIFFERENTIATION

When choosing an LED Lighting partner, consider how their products are engineered, constructed and tested prior to making your decision. Most Dialight products are engineered to a **10 year warranty** and were designed with harsh environments, such as Power Generation Plants, in mind.

CUSTOM POWER SUPPLIES

Long-life potted drivers with optimised thermal dissipation for protection against environmental contaminants and vibration related failures.

LOW MAINTENANCE MECHANICAL DESIGN

Sealed and optimised to reduce or eliminate the need for maintenance over the life of the fixture. Easy to install and retrofit to existing infrastructure.

LATEST LEDS AND ADVANCED OPTICS

Highly efficient, crisp, low-glare illumination. Lighting where you need it, not where you don't.

INTELLIGENT CONTROLS

Flexibility to group, dim and schedule lights around the unique needs of a facility to maximise energy savings. Plus, seamless integration with existing factory automation.

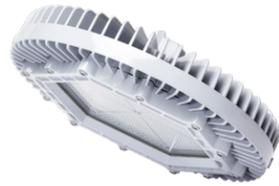


APPLICATION GUIDE for Power Generation Sites

2 **SafeSite® and Vigilant® Area Lights**
 For hazardous and non-hazardous lower ceiling indoor or outdoor process and stanchion mount applications



1 **SafeSite® High Bay**
 Hazardous location chemical storage and processing



3 **Vigilant® High Bay**
 For non-hazardous indoor or outdoor high bay applications over 4.2 metres

4 **Vigilant® LED Bulkhead**
 For non-hazardous lower ceiling indoor or outdoor applications where wider light distribution is critical



9 **Vigilant® L810, L864, L865 Beacons**
 For non-hazardous outdoor obstruction lighting applications such as stacks



8 **Vigilant® High Output High Bay - Low Profile**
 For high ceiling high bay applications typically 12 metres or above



7 **Vigilant® GRP and Stainless Steel Linear**
 For non-hazardous and hazardous indoor or outdoor fluorescent strip/vapourite replacements, task or inspection lighting, electrical rooms, shops, and process areas. 764mm and 1244mm versions available



6 **DuroSite® Flood Lights**
 For industrial indoor or outdoor flood lighting applications; multiple beam patterns available



5 **StreetSense® Street Light**
 For plant maintained roadways and general outdoor illumination, IECEx/ATEX Zone 2 certified



CASE STUDY PPL Power Generation *Bangor, Pennsylvania*

As part of its efforts to reduce energy consumption and cut back on maintenance costs for its twin 400-foot exhaust chimney stacks, the company turned to Fuellgraf Chimney & Tower Inc. to retrofit the stacks with Dialight's high-efficiency LED obstruction lighting. The Lower Mount Bethel chimneys' six Xenon medium-intensity bulbs were not only expensive to operate, but costly to replace and dispose of. Annual replacement bills ran about €9,837 / £8,497, with each lamp costing nearly €1,230 / £1,062. In addition to the cost, safety was a factor, especially considering Lower Mount Bethel Energy's exceptional record. Should one of the bulbs fail unexpectedly, FAA fines could top thousands of dollars per day, for each light that is out. Xenon bulb disposal was also an issue, with special handling required - another added cost.

At Fuellgraf's recommendation, PPL installed six new Dialight L864/L865 dual LED obstruction fixtures in place of the antiquated Xenon fixtures. Powered by ultra-long life LEDs, the new Dialight LED beacons deliver the equivalent of 330-watt illumination from a 110/230VAC 50/60 Hz power supply with exceptional performance and reliability for up to 10 years, in most cases. Solid state construction resists shock and vibration, while the fixture itself is much smaller, reducing wind load interference and damage. The dual beacon uses 90% less electricity than traditional incandescent bulbs to reduce energy consumption and the plant's overall carbon footprint. Pursuant to the company's environmental stewardship, the Dialight beacons also meet the U.S. Fish and Wildlife Services' recommendation for the protection of migratory birds. And, the new LED units are safer for humans, too: the Dialight L864/L865 LED beacons operate at a much lower voltage than traditional Xenon flashtubes, reducing the risk of injury due to electrical shock for installers and maintenance crews. The L864/L865 power supply/control box can be positioned at the base of the tower for added safety and convenience when servicing the units.

- Replaced six 330W Xenon Strobes
- 2 level 395' Height – 20' Diameter Chimney Stacks
- PPL Chimney Stacks - All White beacon (6)
- 90% less electricity than traditional incandescent bulbs
- Significantly less wind loading



For more case study information please visit www.dialight.com.

PRODUCT PORTFOLIO Obstruction Lighting Solutions



VIGILANT® MEDIUM INTENSITY SYSTEM

Dialight is the market leader in LED obstruction solutions with over 20 years of design and manufacturing experience. Dialight offers the industry's most reliable, energy-efficient and comprehensive line of LED-based obstruction systems in the world. Precision patented optics ensure maximum safety with minimal ground scatter for community friendly illumination. Dialight systems offer a small, light-weight flash head for ease of installation, and our low-maintenance fixtures virtually eliminate tower climbs and unplanned site visits for years, dramatically reducing maintenance costs and non-compliance risk. Dialight controlled LED obstruction solutions can be seamlessly integrated into existing operation and control centers while providing additional valuable information, both locally and remotely.

Ideally suited for:

- TOWERS
- STACKS
- CHIMNEYS

Part Number	Description
White (L865) or Dual red/white (L864/L865) Complete System - IR Compliant	
D1CW-CTR-409	DUAL STROBE white or red/white controller and power supply 120 to 240VAC
D1CW-FH-409	DUAL STROBE white or red/white + IR flash head
D1CW-PS-9409	DUAL STROBE white or red/white power supply 120-240VAC
D256-6000PEC	Day and night photocell, 3/4NPT cast enclosure
CAB-050183	Photocell cable, 50 Ft, 18 AWG / 3 conductor
CAB-020183BFD	Communication cable, 20 Ft, 18 AWG / 3 conductor

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PRODUCT PORTFOLIO High Bays

PRODUCT PORTFOLIO High Bays



VIGILANT® HIGH BAY

For use in non-hazardous indoor and outdoor high bay and occasionally flood lighting applications. Replaces up to 1,000 watt traditional HID fixtures.

Ideally suited for:

- STORAGE/WAREHOUSE
- MAINTENANCE SHOPS
- BOILER ROOM



SAFESITE® HIGH BAY

For use in hazardous classified high bay applications where chemical vapour or explosive dusts are present. See technical spec sheet for applicable certifications.

Ideally suited for:

- PROCESS AREAS
- CHEMICAL STORAGE
- WATER TREATMENT
- LOADING/UNLOADING

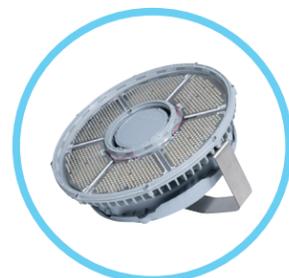


VIGILANT® HIGH OUTPUT HIGH BAY

For use in high output or high ceiling non-hazardous indoor and outdoor high bay applications. Replaces up to 1,500 watt traditional HID fixtures with mounting heights up to 30.5 metres.

Ideally suited for:

- STORAGE/WAREHOUSE



RELIANT™ HIGH BAY

For use in indoor non-hazardous applications to replace either HID or Fluorescent fixtures up to 1,000 watts where harsh environment protection is less of a concern.

Ideally suited for:

- STORAGE/WAREHOUSE
- MAINTENANCE SHOPS
- SHIPPING/RECEIVING

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Part Number	Certification	Fixture Lumens	Wattage	lm/W	CCT	Lens	Beam Distribution
Vigilant® High Bay*							
HEE7MC2ADHWNGN	CE, ENEC	11,250	80	141	5000K (cool white)	Glass - Clear	Medium
HEE7MC2BDHWNGN	CE, ENEC	14,250	102	140	5000K (cool white)	Glass - Clear	Medium
HEE7MC2CDHWNGN	CE, ENEC	19,500	129	151	5000K (cool white)	Glass - Clear	Medium
HEE7MC2EDHWNGN	CE, ENEC	26,250	186	141	5000K (cool white)	Glass - Clear	Medium
Vigilant® Low Profile High Output High Bay							
H7E7MC2NDHNNGN	CE, ENEC	61,200	418	146	5000K (cool white)	Glass - Clear	Medium
H7E7MC2KDHNNGN	CE, ENEC	46,000	300	153	5000K (cool white)	Glass - Clear	Medium
H7E7MC2RDHNNGN	CE, ENEC	70,500	485	145	5000K (cool white)	Glass - Clear	Medium
SafeSite® High Bay							
HEA9MC4DNKCG	IECEX / ATEX (Zone 1, Zone 2)	9,650	88	110	5000K (cool white)	Glass - Clear	Medium
HEA9MC4GNKCG	IECEX / ATEX (Zone 1, Zone 2)	12,500	112	110	5000K (cool white)	Glass - Clear	Medium
HEA9MC4KNKCG	IECEX / ATEX (Zone 1, Zone 2)	16,000	144	110	5000K (cool white)	Glass - Clear	Medium
HEA9MC4PNKCG	IECEX / ATEX (Zone 1, Zone 2)	23,500	212	110	5000K (cool white)	Glass - Clear	Medium
SafeSite® Hydrogen High Bay							
HEH9MC4DNKCG	IECEX / ATEX (Zone 1, Zone 2)	11,250	80	141	5000K (cool white)	Glass - Clear	Medium
HEH9MC4GNKCG	IECEX / ATEX (Zone 1, Zone 2)	14,250	102	140	5000K (cool white)	Glass - Clear	Medium
HEH9MC4KNKCG	IECEX / ATEX (Zone 1, Zone 2)	19,500	129	151	5000K (cool white)	Glass - Clear	Medium
HEH9MC4PNKCG	IECEX / ATEX (Zone 1, Zone 2)	22,500	186	141	5000K (cool white)	Glass - Clear	Medium
Reliant™ High Bay*							
RRE4MC2ADHNNGN	CE / ENEC	10,600	71	149	5000K (cool white)	Clear Polycarbonate	Medium
RRE4MC2BDHNNGN	CE / ENEC	13,400	91	147	5000K (cool white)	Clear Polycarbonate	Medium
RRE4MC2CDHNNGN	CE / ENEC	16,900	114	148	5000K (cool white)	Clear Polycarbonate	Medium
RRE4MC2EDHNNGN	CE / ENEC	22,800	159	143	5000K (cool white)	Clear Polycarbonate	Medium
RRE4MC2GDHNNGN	CE / ENEC	28,200	191	148	5000K (cool white)	Clear Polycarbonate	Medium
RRE4MC2JDHNNGN	CE / ENEC	33,800	232	146	5000K (cool white)	Clear Polycarbonate	Medium

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*Occupancy Sensor models available, see Product Specification Sheet

PRODUCT PORTFOLIO Area Lights, Bulkheads

PRODUCT PORTFOLIO Bulkheads



VIGILANT® AREA LIGHT

This extremely versatile fixture series can be used in non-hazardous indoor and outdoor applications. See technical spec sheet for more information and additional accessories.

Ideally suited for:

- WALKWAYS
- COOLING TOWERS
- LOADING/UNLOADING
- CONVEYORS



SAFESITE® AREA LIGHT

For use in hazardous classified applications where chemical vapours or explosive dusts are present. See technical spec sheet for hazardous certifications and more information on additional accessories.

Ideally suited for:

- PROCESS AREAS
- WALKWAYS
- CONVEYORS
- LOADING/UNLOADING
- CHEMICAL STORAGE

Part Number	Certification	Fixture Lumens	Wattage	lm/W	CCT	Lens	Beam Distribution
Vigilant® Area Light							
ALE7AC26DBJUGN	CE, ENEC	5,500	40	138	5000K (cool white)	Glass - Clear	180°
ALE7AC27DBJUGN	CE, ENEC	7,100	52	137	5000K (cool white)	Glass - Clear	180°
ALE7AC29DBJUGN	CE, ENEC	8,800	66	133	5000K (cool white)	Glass - Clear	180°
ALE7BC26DBJUGN	CE, ENEC	5,700	40	143	5000K (cool white)	Glass - Clear	360°
ALE7BC27DBJUGN	CE, ENEC	7,300	52	140	5000K (cool white)	Glass - Clear	360°
ALE7BC29DBJUGN	CE, ENEC	9,000	66	136	5000K (cool white)	Glass - Clear	360°
SafeSite® Area Light							
HZJA8C2N	IECEX/ATEX (Zone 1, 21, Zone 2, 22)	5,600	58	97	5000K (cool white)	Tempered Glass	180°
HZJA9C2N	IECEX/ATEX (Zone 1, 21, Zone 2, 22)	6,000	58	103	5000K (cool white)	Tempered Glass	360°

Neutral white options available, please consult local Dialight sales office for availability.

For more details on product specifications including mounting information, please visit www.dialight.com.

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VIGILANT® BULKHEAD

For use in non-hazardous indoor and outdoor applications, ideal for any industrial retrofit or greenfield environment.

Ideally suited for:

- PROCESS AREAS
- CONVEYORS
- WALKWAYS
- LOADING AND UNLOADING AREAS



VIGILANT® POLE MOUNT BULKHEAD

For use in non-hazardous indoor and outdoor applications, ideal for any industrial retrofit or greenfield environment.

Ideally suited for:

- PROCESS AREAS
- CONVEYORS
- WALKWAYS
- LOADING AND UNLOADING AREAS

Part Number	Certification	Fixture Lumens	Wattage	lm/W	CCT	Lens	Beam Distribution
Vigilant® Bulkhead Standard and Emergency Options							
BHE4UC23NFNVGN	CE	3,100	22	144	5000K (cool white)	Clear Polycarbonate	Ultra-Wide (Type 1)
BHE4UC26NFNVGN	CE	6,400	45	142	5000K (cool white)	Clear Polycarbonate	Ultra-Wide (Type 1)
BHE4UCG3NFNVGG*	CE	3,100	25	124	5000K (cool white)	Clear Polycarbonate	Ultra-Wide (Type 1)
BHE4UCG6NFNVGG*	CE	6,400	48	133	5000K (cool white)	Clear Polycarbonate	Ultra-Wide (Type 1)
Vigilant® Bulkhead Pole Mount and Emergency Options							
BPE4UC23NNNVGN	CE	3,100	22	144	5000K (cool white)	Clear Polycarbonate	Ultra-Wide (Type 1)
BPE4UC26NNNVGN	CE	6,400	45	142	5000K (cool white)	Clear Polycarbonate	Ultra-Wide (Type 1)
BPE4UCG3NNNVGG*	CE	3,100	25	124	5000K (cool white)	Clear Polycarbonate	Ultra-Wide (Type 1)
BPE4UCG6NNNVGG*	CE	6,400	48	133	5000K (cool white)	Clear Polycarbonate	Ultra-Wide (Type 1)

Neutral white options available, please consult local Dialight sales office for availability.

For more details on product specifications including mounting information, please visit www.dialight.com.

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PRODUCT PORTFOLIO Floodlights

PRODUCT PORTFOLIO Linear Lights



**VIGILANT®
DUAL FLOODLIGHT**

Round high lumen dual floodlight to replace up to 1500 watt HID units in non-hazardous areas. See technical spec sheet for more information on additional accessories, optical patterns, and hazardous certified options.

Ideally suited for:

GENERAL FLOOD LIGHTING

LOADING/UNLOADING AREAS



**DUROSITE®
10/15K FLOODLIGHT**

Traditional square flood light designed to replace 250 watt and 400 watt HID units in non-hazardous areas. See technical spec sheet for information on additional accessories and optical patterns.

Ideally suited for:

GENERAL FLOOD LIGHTING

RAIL YARDS

PARKING AREAS



**STREETSENSE®
STREET LIGHT**

For use in plant maintained roadways, parking areas and general outdoor illumination.

Ideally suited for:

ROADWAYS/PARKING AREAS



**VIGILANT®
GRP LINEAR**

The latest addition to the linear family, featuring extremely durable glass reinforced polyester and our exclusive 10 year warranty. Available in 764mm and 1244mm varieties. For use in indoor and outdoor non-hazardous low mounting height applications. Refer to Dialight website for more information.

Ideally suited for:

LABORATORIES

PROCESS AREAS



**SAFESITE®
GRP LINEAR**

The latest addition to the linear family, featuring extremely durable glass reinforced polyester and our exclusive 10 year warranty. Available in 764mm and 1244mm varieties. For use in indoor and outdoor hazardous certified linear and low mounting height applications where explosive gases may be present. Refer to Dialight website for more information.

Ideally suited for:

LABORATORIES

PROCESS AREAS



**SAFESITE®
STAINLESS STEEL LINEAR**

Available in 764mm and 1244mm varieties. For use in indoor and outdoor hazardous certified linear and low mounting height applications where explosive gases may be present. Refer to Dialight website for more information.

Ideally suited for:

ELECTRICAL ROOMS

WALKWAYS

SHOP AREAS

Part Number	Certification	Fixture Lumens	Wattage	lm/W	CCT	Lens	Beam Distribution
Vigilant® Dual Floodlight							
FLEB66MC2NG	CE	56,000	385	145	5000K (cool white)	Clear Tempered Glass	35°
FLEBM0MC2NG	CE	54,000	385	140	5000K (cool white)	Clear Tempered Glass	92°
DuroSite® Floodlight							
FLE276MC2NG	CE	11,500	106	108	5000K (cool white)	Clear Tempered Glass	105° x 70°
FLE467MC4NG	CE	14,750	135	109	5000K (cool white)	Clear Tempered Glass	70° x 105°
FLE476MC4NG	CE	14,750	135	109	5000K (cool white)	Clear Tempered Glass	105° x 70°
FLE466MC4NG	CE	15,000	135	111	5000K (cool white)	Clear Tempered Glass	45°
StreetSense® Street Light							
SLA3C4CG	IECEX/ATEX (Zone 2)	5,500	65	85	5000K (cool white)	Glass - Clear	Type III
SLA3C4HG	IECEX/ATEX (Zone 2)	10,900	131	83	5000K (cool white)	Glass - Clear	Type III
SLA3C4SG	IECEX/ATEX (Zone 2)	20,250	252	80	5000K (cool white)	Glass - Clear	Type III

Neutral white options available, please consult local Dialight sales office for availability.

For more details on product specifications, please visit www.dialight.com.

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Part Number	Certification	Fixture Lumens	Wattage	lm/W	CCT	Lens	Beam Distribution
Vigilant® GRP Linear							
P2EBMC23A54WGN	CE	2,875	25	115	5000K (cool white)	Textured Polycarbonate	Medium
P4EBMC26A54WGN	CE	5,750	47	122	5000K (cool white)	Textured Polycarbonate	Medium
SafeSite® GRP Linear							
P2ABMC23A54WGN	IECEX/ATEX (Zone 1, 2, 21 & 22), CE	2,875	25	115	5000K (cool white)	Textured Polycarbonate	Circular
P4ABMC26A54WGN	IECEX/ATEX (Zone 1, 2, 21 & 22), CE	5,750	47	123	5000K (cool white)	Textured Polycarbonate	Circular
P2BBMC23A54WGN	IECEX/ATEX (Zone 2, 21 & 22), CE	2,875	25	115	5000K (cool white)	Textured Polycarbonate	Circular
P4BBMC26A54WGN	IECEX/ATEX (Zone 2, 21 & 22), CE	5,750	47	123	5000K (cool white)	Textured Polycarbonate	Circular
SafeSite® Stainless Steel Linear							
ELA1C6MSSCB4	IECEX/ATEX (Zone 1, 21, Zone 2, 22)	2,600	34	76	5000K (cool white)	Clear Polycarbonate	Medium
ELA1C6RSSCB4	IECEX/ATEX (Zone 1, 21, Zone 2, 22)	5,100	67	76	5000K (cool white)	Clear Polycarbonate	Medium
ELEA2C7MSSCB4	IECEX/ATEX (Zone 1, 21, Zone 2, 22)	2,600	35	74	5000K (cool white)	Clear Tempered Glass	Medium
ELEA2C7RSSCB4	IECEX/ATEX (Zone 1, 21, Zone 2, 22)	5,100	70	73	5000K (cool white)	Clear Polycarbonate	Medium

Neutral white options available, please consult local Dialight sales office for availability.

For more details on product specifications, please visit www.dialight.com.

Emergency versions available.

DISCLAIMER. All product information provided is, to the best of Dialight's knowledge, accurate as of the date of publication. When ordering, refer to www.dialight.com for current versions of: (a) relevant product documentation (including the relevant product data sheets); (b) Dialight terms and conditions of sale; and, (c) the relevant product warranty. To the extent that any contract is deemed formed between Dialight and the purchaser of Dialight products and/or an end-user, versions of documents available at www.dialight.com as at the date of sale shall be the versions incorporated therein. In the event of any discrepancy between this document or information provided at www.dialight.com, the latter shall prevail.

HAZARDOUS AREA RATINGS



Fixed and portable fixtures for installation and use in hazardous areas.

Zones

The zone defines the probability of hazardous material being present in an explosive concentration in the atmosphere.

Zone	Hazardous Material in Surrounding Atmosphere
Zone 0, 20	Area in which an explosive gas / dust mixture is continuously present or present for long periods
Zone 1, 21	Area in which an explosive gas / dust mixture is likely to occur for short periods in normal operation
Zone 2, 22	Area in which an explosive gas / dust mixture is present for a very short time due to an abnormal condition

Protection Types

The protection types are used to denote the protection concept utilised in the devices.

Ex	Presence of Hazardous Material	Zones
Ex d	Flameproof (Explosion proof) Enclosure	1, 21, 2, 22
Ex e	Increased Safety	1, 21, 2, 22
Ex m	Encapsulation	1, 21, 2, 22
Ex n or N	Non incensive or/and normally no sparking circuits	2, 22

Temperature Ratings

Certified equipment is tested for maximum temperature rating by approval agencies.

Equipment for Group II receives a temperature code indicating the maximum temperatures of the product.

	Temperature Rating
T1	450°C
T2	300°C
T3	200°C
T4	135°C
T5	100°C
T6	85°C

Groups (Gas & Dust)

Equipment is tested for suitability in specified gas groups and dust groups.

Gas groups IIA, IIB, IIC. Dust groups IIIA, IIIB, IIIC

Group	Hazardous Material in Surrounding Atmosphere
Group IIA	Propane group
Group IIB	Ethylene group
Group IIC	Hydrogen group
Group IIIA	Combustible flyings
Group IIIB	Non-conductive dust
Group IIIC	Conductive dust

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WARNING / DISCLAIMERS:

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