

EXPLOSION-PROOF LED FLEXIBLE STRIP LIGHT

CES-EX-LP Series

Suitable for hazardous locations in explosive gas environments
Zone 1 and Zone 2.



**Engineered for Extremes.
Trusted for Safety.**



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QUALIFICATION CERTIFICATES

ATEX:

- Ex II 2 G Ex mb op is IIC T4 Gb;
- Ex II 2 D Ex mb op is IIIC T135°C Db;
- Certificate No.: TÜV IT 24 ATEX 0179 X



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SCOPE OF APPLICATION

- Wastewater treatment, oil and gas refineries, drilling rigs, offshore platforms, petrochemical facilities, chemical plants, coal mines, aviation bases, food factories, pharmaceutical plants, beverage processing plants, and locations with the presence of flammable vapors, gases, combustible dust, fibers, or fumes.
- Suitable for hazardous locations in explosive gas environments Zone 1 and Zone 2.

PRODUCT DESCRIPTION

The CES-EX-LP Series, an innovative line of LED hazardous area lighting products, specifically designed for use in potentially explosive atmospheres (Zone 1/21 & 2/22) within harsh industrial settings such as coal mines and oil & gas facilities. Our Explosion Proof Strip Lights are designed to provide a reliable and safe lighting solution that provide continuous area lighting and targeted lighting for equipment areas.

PRODUCT FEATURES

- Explosion-proof: ATEX certified for Zone 1/21 and Zone 2/22, suitable for methane, coal dust, and various combustible gases.
- Long lifespan & low energy consumption: Over 50,000 hours of operation, low power consumption, and high efficiency.
- Multi-functional lighting: White for continuous illumination, colored versions for safety systems.
- Robust design: Flexible silicone material, waterproof connectors, and underground mining controller.
- High-quality LED: High-brightness SMD LED chips for superior illumination.
- Voltage compatibility: Rated input voltage of 48V, 36V, and 24V DC/AC, allowing flexible installation.
- IP67 rating: Injection-molded silicone for dustproof and waterproof protection.
- Consistent performance: High color uniformity and consistency for visually cohesive lighting.



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TECHNICAL DATA OF STRIP LIGHT

Parameters

EX marking	Ⓔ II 2G Ex mb op is IIC T4 Gb Ⓔ II 2D Ex mb op is IIIC T135°C Db
Operating temperature range	-40°C~80°C
Dimension	W20mm*H10mm
IP degree of protection	IP67
Impact strength	IK10
Standards	EN IEC 60079-0 EN IEC 60079-18 EN IEC 60079-28
Weight	285g/m

Voltage	LED QTY/m	Lumen/m	Rated power/m	Color	Rated Current (A/m)	PF
AC48V	84	800lm	12W	White	0.27	0.92
AC48V	84	250lm	10W	Amber	0.22	0.96
AC48V	84	670lm	10W	Green	0.22	0.94
AC48V	84	280lm	10W	Red	0.22	0.96

Voltage	LED QTY/m	Lumen/m	Rated power/m	Color	Rated Current (A/m)	PF
DC48V	84	1000lm	12W	White	0.25	1
DC48V	84	320lm	10W	Amber	0.21	1
DC48V	84	850lm	10W	Green	0.21	1
DC48V	84	340lm	10W	Red	0.21	1

Voltage	LED QTY/m	Lumen/m	Rated power/m	Color	Rated Current (A/m)	PF
AC36V	88	800lm	12W	White	0.37	0.91
AC36V	88	260lm	10W	Amber	0.29	0.96
AC36V	88	660lm	10W	Green	0.30	0.93
AC36V	88	270lm	10W	Red	0.29	0.96

Voltage	LED QTY/m	Lumen/m	Rated power/m	Color	Rated Current (A/m)	PF
DC36V	88	1000lm	12W	White	0.33	1
DC36V	88	330lm	10W	Amber	0.28	1
DC36V	88	900lm	10W	Green	0.28	1
DC36V	88	330lm	10W	Red	0.28	1



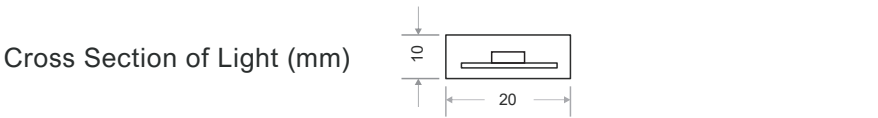
CES-EX-LP Series

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Voltage	LED QTY/m	Lumen/m	Rated power/m	Color	Rated Current (A/m)	PF
AC24V	84	800lm	12W	White	0.55	0.91
AC24V	84	270lm	10W	Amber	0.43	0.96
AC24V	84	630lm	10W	Green	0.45	0.93
AC24V	84	260lm	10W	Red	0.43	0.96

Voltage	LED QTY/m	Lumen/m	Rated power/m	Color	Rated Current (A/m)	PF
DC24V	84	1000lm	12W	White	0.50	1
DC24V	84	350lm	10W	Amber	0.42	1
DC24V	84	880lm	10W	Green	0.42	1
DC24V	84	310lm	10W	Red	0.42	1

Dimension



Item	Figure	Description
Injection-moulded Front Connector(top end)		Connect light to power supply with pre-installed front feed cable, IP65/IP67.
Injection-moulded End Cap		Cross Section of Light (mm)

Note:Unless otherwise stated, the tolerance of the connector is ±0.5mm.

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TECHNICAL DATA OF STRIP LIGHT

Explosion-proof box

Models	CES-EX-LP-A-B1	CES-EX-LP-A-B2
External dimensions	350mm*200mm*170mm	250mm*200mm*170mm
Internal dimensions	280mm*130mm*128mm	180mm*130mm*128mm
ATEX marking	Ex II 2G Ex db IIB+H2T4 Gb	Ex II 2D Ex tb IIIC T135°C Db
IECEx marking	Ex db IIB+H2T4 Gb	Ex tb IIIC T135°C Db
Operating temperature range	-43°C~60°C	
IP degree of protection	IP67	
Weight	9kg	8kg

Power source

Meawell Driver

Input	Output	Max Power
100-240V/277V 50/60Hz	DC 24V/36V/48V	200W

Backup Battery (Optional)

12W Power, 1.5 Hours for Emergency Lighting

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TECHNICAL DATA OF STRIP LIGHT

CESP Explosion-proof led strips multi-color for maximum adaptability



White



Amber



Green



Red

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INSTALLATION MODE

A. Surface mounting	
B. Pendant mounting	