

Ex-Proof Lighting







Our innovative lighting solutions, integrated with smart control systems, we have developed so far and presented on the market ensured the creation of efficient, safe environments in harmony with environment. In an era where the possibilities offered by the light and light-based technologies constantly and rapidly change, we Emergency Kitnowledge the vital role that lighting plays in every field involving people and nature.





What is a Zone?

It is the analysis of the risk and the classification of the zone based on the level of risk in the facilities where explosive, flammable or combustible materials are produced and/or distributed.

It is examined in two separate categories:

1 - Zone Classification According to Gas Groups

(Zone 0, Zone 1, Zone 2)

2- Zone Classification According to Dust Groups

(Zone 20, Zone 21, Zone 22)

How to Identify a Zone?

Zone classification is performed based on type production specified in the IEC EN 60079-10-1 (Gas) and IEC EN 60079-10-2 (Dust) directives.

Definitions of Zones

Zone 0 : Areas where explosive gas is present continuously, for long periods or frequently

Zone 1 : Areas where explosive gas is likely to occur

Zone 2 : Areas where explosive gas occurs rarely or for a short time

Zone 20 : Areas where explosive dust is present continuously, for long periods or frequently

Zone 21 : Areas where explosive dust is likely to occur

Zone 22 : Areas where explosive dust occurs rarely or for a short time

Note: Zone 0 products are suitable for use in Zone 1 and Zone 2. Zone 1 products are suitable for use in Zone 2. Zone 2 products may only be used in Zone 2. Zone 20 products are suitable for use in Zone 21 and Zone 22. Zone 21 products are suitable for use in Zone 22. Zone 22 products may only be used in Zone 22.

What Is Protection Type?

Indicates the flame-proof enclosure type of the device to be used in the zone. There are many types of enclosures, depending on the specifications of the device.

How to Choose a Protection Type?

You can choose the most suitable protection type for your facility among the enclosure types specified in the IEC EN 60079-0 directive for Zone classification. Moreover, you can learn the content and scope of the directives issued for these types.



What Is an Explosion Group?

It is the determination and classification of the type of explosive, flammable or combustible material produced and/or transferred within the facility.

It is examined in two separate categories:

- 1-Gas Groups (IIA, IIB, IIC)
- 2-Dust Groups (IIIA, IIIB, IIIC)

Explosion Group

Typical Types of Gas and Dust

- IIA : Methane, Ethane, Propane, Butane, Octane, Fuel Oil
- IIB : Acrylic nitrile, ethylene, ethylene oxide
- IIC : Hydrogen, acetylene, carbon disulphide

- IIA : Insulating Powders (Plastic, Cereals, etc.)
- IIB : Semiconducting Powders (Silicone, Zinc, etc.)
- IIC : Conducting Powders (Copper, Iron, Aluminium, etc.)

Note: Equipment in group IIB also provide protection against equipment in group IIA. Equipment in group IIC also provide protection against equipment in group IIA and IIB. Equipment in group IIIB also provide protection against equipment in group IIIA. Equipment in group IIC also provide protection against equipment in group IIA and IIB.

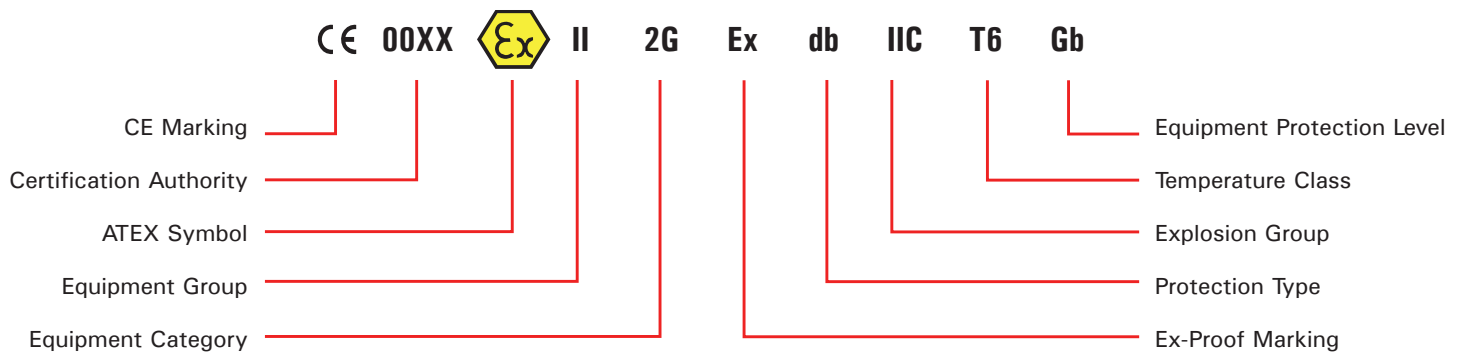
What Is a Temperature Class?

Indicates maximum surface temperature that can occur on the equipment. The determined temperature class should not approach the determined value at a critical level since it is the most important factor triggering the explosion of the liquid, gas or dust material in the area.

Definitions of Temperature Classes

- T1 : Maximum surface temperature is lower than 450 °C
- T2 : Maximum surface temperature is lower than 300 °C
- T3 : Maximum surface temperature is lower than 200 °C
- T4 : Maximum surface temperature is lower than 135 °C
- T5 : Maximum surface temperature is lower than 100 °C
- T6 : Maximum surface temperature is lower than 85 °C

INFORMATION FOR READING A LABEL

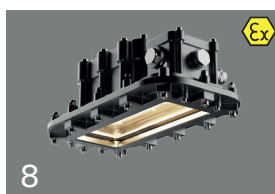


COMMON SOLUTION FOR DIFFERENT SECTORS



Zone-1 (Gas) Zone-21 (Dust)

Content



EX-LINE MINI



EX-FOR MINI



HBC-ZONE 1



PROLIT-ZONE 1



EX-FLEX

EX-LINE MINI

With its advanced mechanical features, the EX-LINE MINI stands out with its durable and sealed Aluminium Injection Housing. Guaranteeing a long service life in harsh environmental conditions, this product provides a colour temperature option and high lighting efficiency with its MID POWER LED. EX-LINE MINI also provides economy with its low consumption costs. With different mounting options and the DALI option, it is suitable for explosive atmospheres with ambient temperatures ranging from -40 °C to +45 °C.



Exproof Product Features

Zone	: Zone 1.21 / 2.21 / 2.22
Group / Category	: II / 2GD
Protection Classs	: db eb tb
Explosion Group	: IIC / IIIC
Maximum Surface	: T6 / T85°C
Temperature Class	
Certificate Code	: EX II 2G Ex db eb IIC T6 Gb EX II 2D Ex tb IIIC T85°C Gb

Mechanical Features

Housing	: Aluminum Injection Housing
Luminaire Surface	: Thermal Tempered Glass
Sealing	: High Temperature Resistant Silicone Gasket and TPV Gasket
Gland (Inlet)	: 1 x M20
Screws and bolts	: AISI 316 Stainless Steel
IP	: IP66

Electrical and Optical Properties

Light Source	: MID POWER LED
Consumption Power	: 20W / 28W / 36W / 44W / 51W
Lumen	: 2387 lm / 3267 lm / 4126 lm / 4890 lm / 5540 lm
Input Voltage	: 220-240V (50-60 Hz)
Colour Temperature	: 2000K / 2700K / 3000K / 4000K / 5000K / 5700K / 6500K
CRI	: ≥80
Optical	: Wide Angle 120°

Other Features

Support Type	: Ceiling, Cable Tray, Pole, Chain Support
Housing Colour	: SW 306G (Smoked)

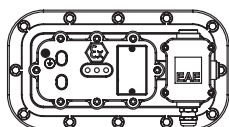
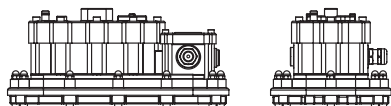
Dimensions

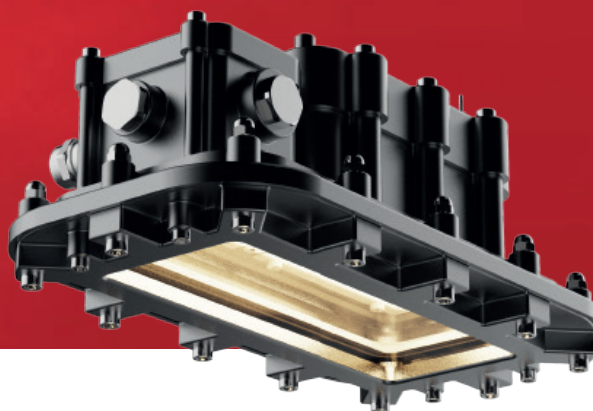
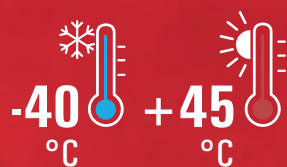
Width	: 223 mm
Height	: 217 mm
Weight	: 5.2 kg

Options

Gland Inlet	: M20, M25, NPT 3/4 and Armored Glands
Gland Outlet	: M20, M25, NPT 3/4 and Armored Glands
Protection Grid	: Yes
DALI	: Yes

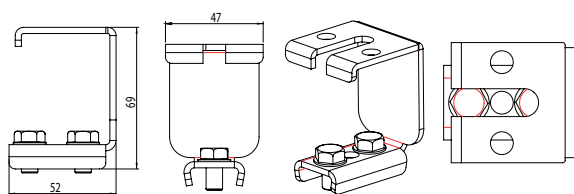
Technical Drawing





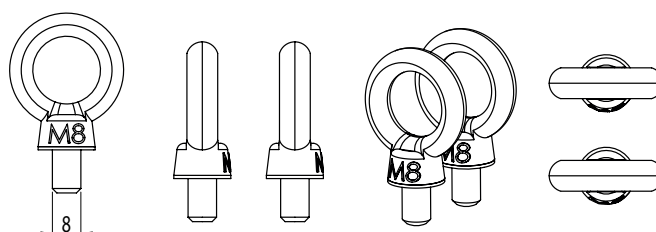
Support Tools

Ceiling and Cable Tray Single Installation



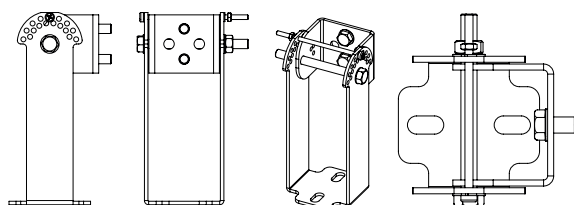
Order Code 3244478

Chain Support Installation



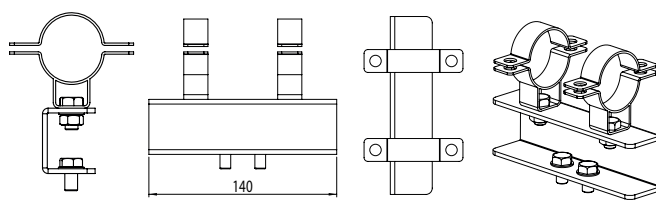
Order Code 3244480

Wall Installation - Installation with Angular Support



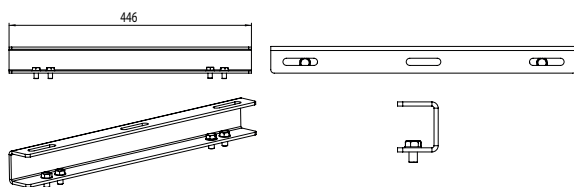
Order Code 3244499

Tube Installation



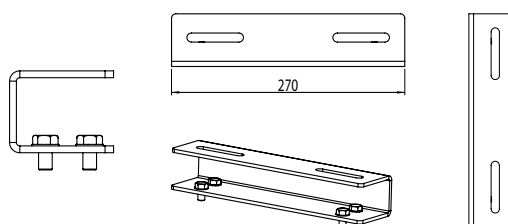
Order Code 3244500

Ceiling and Cable Tray Double Installation



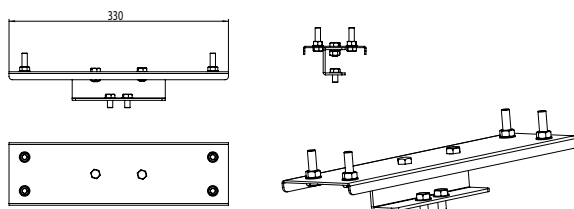
Order Code 3244501

Ceiling and Cable Tray Single Installation - 2



Order Code 3244505

Surface Hanger Kit



Order Code 3245127



Zone 1.21 / 2.21 / 2.22

II 2G Ex db eb IIC T6 Gb
II 2D Ex tc IIIC T85°C Db

EX-FOR MINI

This equipment is an explosion-proof Zone-1.21 LED luminaire. It has protection classes "db" for limited inhalation in Zone 1 in explosive gas atmosphere and "tb" for dust ignition in Zone 21 in explosive dust atmosphere. The LEDs and driver are housed in an IP66 protected enclosure. All cables, glands and terminals are certified. Each model is identical in size and appearance. The main differences are power and product features.



Exproof Product Features

Zone : Zone 1.21 / 2.21 / 2.22
Group / Category : II / 2GD
Protection Classs : db tb
Explosion Group : IIC / IIIC
Maximum Surface: T6 / T85°
Temperature Class
Certificate Code : EX II 2G Ex db IIC T6 Gb
EX II 2D Ex tb IIIC T85°C Db

Mechanical Features

Housing : Aluminum Injection Housing
Luminaire Surface : Thermal Tempered Glass
Sealing : High Temperature Resistant Silicone Gasket and TPV Gasket
Gland (Inlet) : Standard 1 x M20
Screws and bolts : AISI 316 Stainless Steel
IP : IP66

Electrical and Optical Properties

Light Source : MID POWER LED
Consumption Power : 20W / 28W / 36W / 44W / 51W
Lumen : 2387 lm / 3267 lm / 4126 lm / 4890 lm / 5540 lm
Input Voltage : 220-240V (50-60 Hz)
Colour Temperature : 3000K / 4000K / 5000K / 5700K / 6500K
CRI : ≥ 80
Optical : Wide Angle 120°

Other Features

Support Type : Ceiling, Cable Tray, Pole, Chain Support
Housing Colour : SW 306G (Smoked)

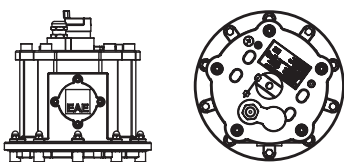
Dimensions

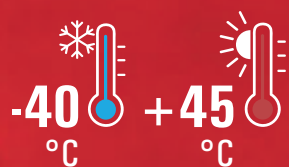
Width : 225 mm
Height : 221 mm
Weight : 5.5 kg

Options

Gland Inlet : M20, M25, NPT 3/4 and Armored Glands
Gland Outlet : M20, M25, NPT 3/4 and Armored Glands
Protection Grid : Yes
DALI : Yes

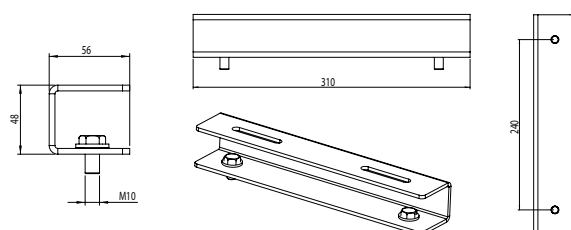
Technical Drawing





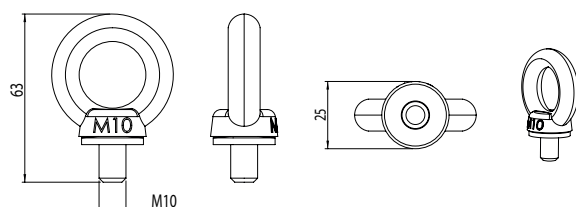
Support Tools

Ceiling and Cable Tray Single Installation



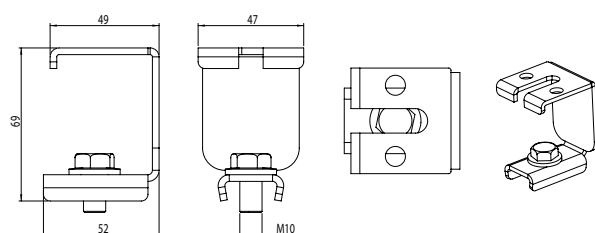
Order Code 3245782

Single Mapa Hanger Set



Order Code 3245137

Cable Tray Hanger Set



Order Code 3245131



Zone 1.21 / 2.21 / 2.22

II 2G Ex db IIC T6 Gb

II 2D Ex tb IIIC T85°C Db

HBC-EX ZONE 1

With its high resistance to explosion, HBC-EX ZONE 1 exhibits excellent performance against ignition in explosive gas atmosphere and explosive dust atmosphere. Offering long-lasting use in project areas, HBC-EX ZONE-1 is the common solution of different industries that need lighting.



Exproof Product Features

Zone : Zone 1.21 / 2.21 / 2.22
Group / Category : II / 2GD
Protection Classs : 2GD
Explosion Group : IIC / IIIC
Maximum Surface: T6 / T85°C
Temperature Class
Certificate Code : EX db eb mb IIC T6 Gb
EX tb IIIC T85°C Db

Mechanical Features

Housing : Aluminum Injection Housing
Luminaire Surface : Clear Thermal Tempered Glass
Sealing : Temperature Resistant Silicone Gasket
Gland (Inlet) : 1 x M20
Gland (Outlet) : 1 x M20
Screws and bolts : AISI 316 Stainless Steel
IP : IP66

Electrical and Optical Properties

Light Source : MID POWER LED
Consumption Power : 70W / 107W / 130W
Lumen : 8388 lm / 12100 lm / 15100 lm
Input Voltage : 220-240V (50-60 Hz)
Colour Temperature : 4000K / 5000K / 6500K
CRI : ≥ 85
Optical : Wide Angle 120°

Other Features

Support Type : Ceiling Montajı, Cable Tray,
Pole, Pendant
Housing Colour : SW 306G (Smoked)

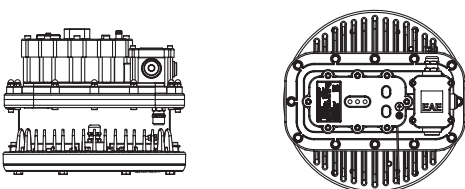
Dimensions

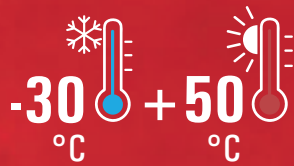
Width : 225 mm
Height : 221 mm
Weight : 10.1 - 10.9

Options

Gland Inlet : M20, M25, NPT 3/4 and
Armored Glands
Gland Outlet : M20, M25, NPT 3/4 and
Armored Glands
Emergency Kit : Yes (1-3 Hours)
DALI : Yes

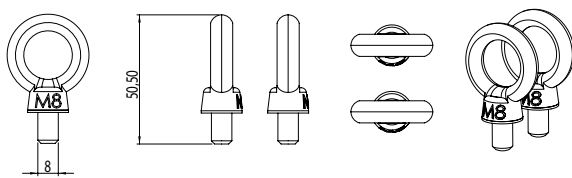
Technical Drawing





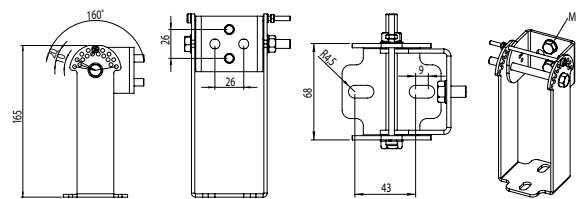
Support Tools

Pendant Hanger Set



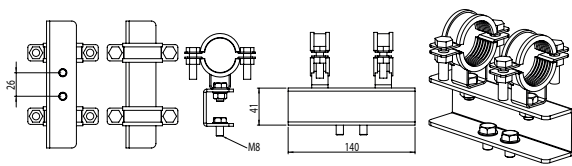
Order Code 3244480

Angular Ceiling Tray Wall Set



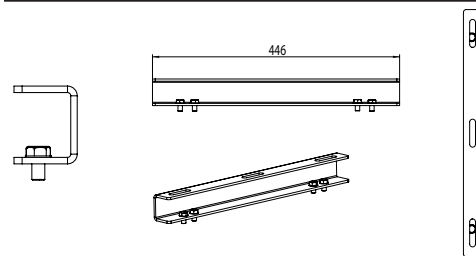
Order Code 3244499

Tube Hanger Set



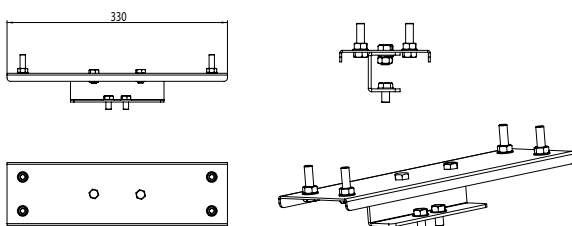
Order Code 3244500

Dual Product Hanging Set



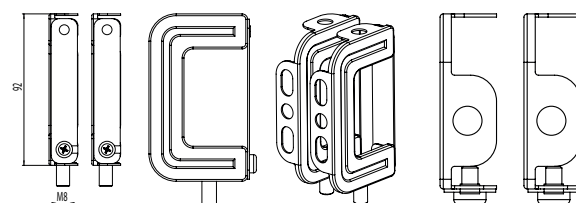
Order Code 3244501

Surface Hanger Set



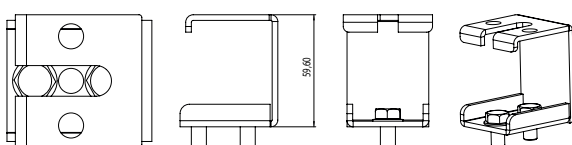
Order Code 3245127

Box Profile Suspension Set



Order Code 3287129

Cable Tray and Ceiling Suspension Set



Order Code 3304454



Zone 1.21 / 2.21 / 2.22

Ex db eb mb IIC T6 Gb

Ex tb IIIC T85°C Db

PROLIT ZONE 1

PROLIT ZONE 1 provides a flexible usage area with its IP66 aluminum injection body with high heat and impact resistance and electronic control options in its class. In addition, the product, which has an e-type energy input terminal, provides an economical installation with its easy installation.



Exproof Product Features

Zone : Zone 1.21 / 2.21 / 2.22
Group / Category : II / 2GD
Protection Classs : 2GD
Explosion Group : IIC / IIIC
Maximum Surface T6 / T85°C
Temperature Class
Certificate Code : EX db mb IIC T6 Gb
EX tb IIIC T85°C Db

Mechanical Features

Housing : Aluminum Injection Housing
Luminaire Surface : Thermal Tempered Glass
Sealing : Temperature Resistant Silicone Gasket
Gland (Inlet) : 1 x M20
Gland (Outlet) : 1 x M20
Screws and bolts : AISI 316 Stainless Steel
IP : IP66

Electrical and Optical Properties

Light Source : MID POWER LED
Consumption Power : 70W / 82W / 107W / 130W
Lumen : 9603 lm / 10986 lm / 13905 lm / 16072 lm
Input Voltage : 220-240V (50-60 Hz)
Colour Temperature : 4000K / 5000K / 6500K
: ≥85
CRI : Wide Angle 120°
Optical

Other Features

Support Type : Ceiling, Pole, Pendant, Cable Tray
Housing Colour : SW 306G (Smoked)

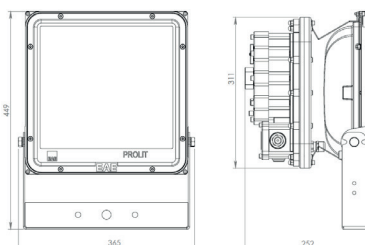
Options

Emergency Kit : Yes (1-3 Hours)
DALI : Yes

Dimensions

Width : 365 mm
Height : 449 mm
Weight : 13.5 - 14.4 kg

Technical Drawing

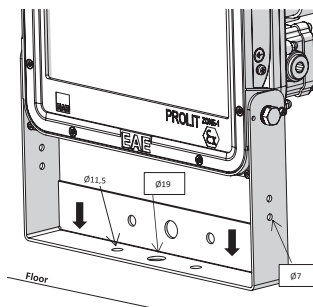


-30 °C +55 °C

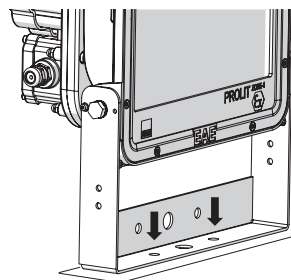


Support Tools

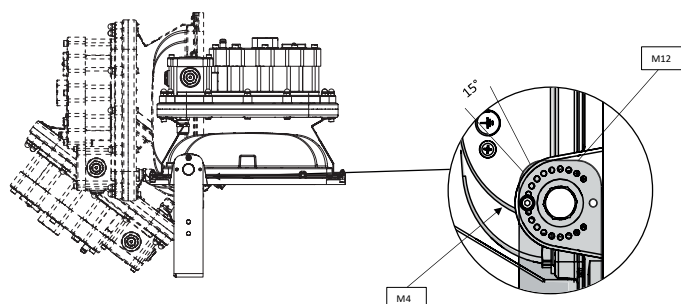
Floor Assembly



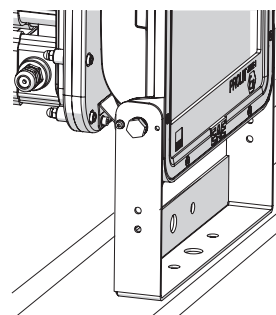
Box Profile Assembly



Adjustable Angle Hanger Kit



Angle Assembly



Zone 1.21 / 2.21 / 2.22

Ex db eb mb IIC T6 Gb

Ex tb IIIC T85°C Db

EX-FLEX

Offering a multi-functional solution for emergency lighting and escape lighting issues, EX FLEX is suitable for explosive areas at ambient temperatures from -20 °C to +50 °C, in Zone 1.21 / 2.21 / 2.22 that require durability with its high-strength housing. Guaranteeing long-lasting use for harsh environmental conditions with its emergency kit option, EX FLEX minimizes possible lighting problems.



Exproof Product Features

Zone : Zone 1.21 / 2.21 / 2.22
Group / Category : II / 2G / 2D
Protection Classs : db eb tb
Explosion Group : IIC / IIIC
Maximum Surface : T6 / T80°C
Temperature Class
Certificate Code : EX db eb IIC T6 Gb
EX tb IIIC T80°C Db

Mechanical Features

Housing : Aluminum Injection Housing
Luminaire Surface : Borosilicate Tubular Glass
Sealing : Temperature Resistant Silicone Gasket
Gland (Inlet) : 2x M20
Gland (Outlet) : 2x M20
Screws and bolts : Stainless Steel
IP : IP66

Electrical and Optical Properties

Light Source : LED
Consumption Power : 5W
Lumen : 202 lm
Input Voltage : 220-240V (50-60 Hz)
Colour Temperature : 4000K
CRI : ≥80
Optical : Wide Angle 120°

Other Features

Support Type : Ceiling Montajı, Boru,
Pendant, Wall
Housing Colour : Grey Polyester

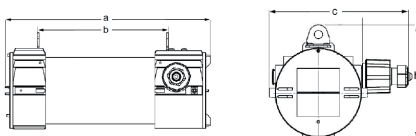
Options

Emergency Kit : Yes (1-3 Hours)

Dimensions

Width : 220 mm
Length : 370 mm
Height : 174 mm
Weight : 4 Kg

Technical Drawing





Support Tools

Pipe Installation



Ceiling Installation



Zone 1.21 / 2.21 / 2.22

Ex db IIC T6 Gb or
Ex db eb IIC T6 Gb
Ex tb IIIC T80°C Db



Content



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■ PROLIT KOMPAKT



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■ PROLIT EXPROOF



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■ HBC-EX ZONE 2



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■ CSD



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■ DPE



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■ GALIS EXIT ZONE

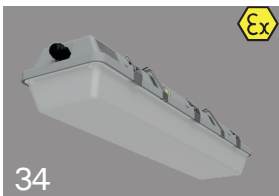


Zone-2 (Gas)
Zone-21 (Dust)
Zone-22 (Dust)



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■ GALIS EXPROOF



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■ EX-COR ZONE 2.22



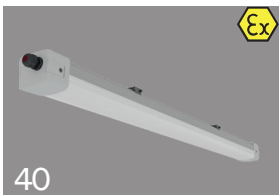
36

■ EX DUAL EXIT ZONE



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■ EX DUAL ZONE



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■ LINEX ZONE 2.21

PROLIT KOMPAKT

Offering a long service life for years thanks to its sealed and durable housing, PROLIT provides benefits for Yesious environment conditions with its alternative lens types. Providing different colour temperature options, PROLIT is offered to users with a wide range of lumen options. Providing high energy efficiency with its HIGH POWER LED, this product is also offered with IP66 protection class. PROLIT is heat and shock absorbent thanks to its high strength tempered glass. PROLIT is suitable for harsh ambient conditions with temperature ranging from -40 °C to +60 °C.



Exproof Product Features

Zone	: Zone 2.22
Group / Category	: II / 3GD
Protection Classs	: ec / tc
Explosion Group	: IIC / IIIC
Maximum Surface Temperature Class	: T4 / T135°C
Certificate Code	: EX II 3G Ex ec IIC T4 Gc EX II 3D Ex tc IIIC T135°C Dc

Mechanical Features

Housing	: Aluminum Injection Housing
Luminaire Surface	: Thermal Tempered Glass
Sealing	: High Temperature Resistant Silicone Gasket
Gland (Inlet)	: 1 x M16
Support Tools	: AISI 316 Stainless Steel
Screws and bolts	: AISI 316 Stainless Steel
IP	: IP66

Electrical and Optical Properties

Light Source	: HIGH POWER LED / MID POWER LED
Consumption Power	: 70W / 75W / 95W / 96W
Lumen	: 8128 lm / 7549 lm / 11366 lm / 11206 lm
Input Voltage	: 220-240V (50-60 Hz)
Colour Temperature	: 3000K / 4000K / 5700K
CRI	: ≥ 70 / ≥ 80
Optical	: High Power LED: 16° / 27° / 52° / 98° / ASM Mid Power LED: 35° / 60° / 90° / ASM

Other Features

Support Type	: Ceiling, Cable Tray, Pole
Housing Colour	: MW 3004

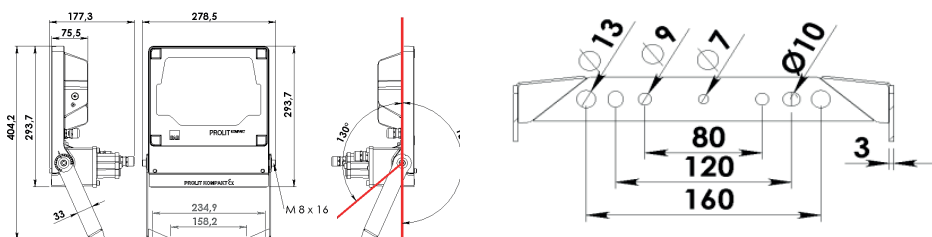
Options

Gland Inlet	: M16, M20, M25, NPT 3/4 and Armored Glands
Gland Outlet	: M16, M20 and Armored Glands
DALI	: Yes

Dimensions

Width	: 279 mm
Length	: 294 mm
Height	: 177 mm
Weight	: 5.1 - 5.3 kg

Technical Drawing

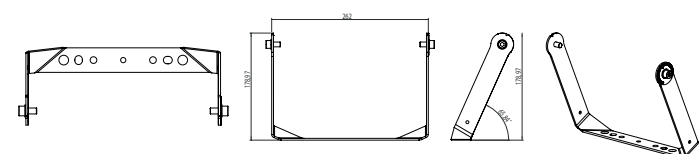


-20°C +55°C



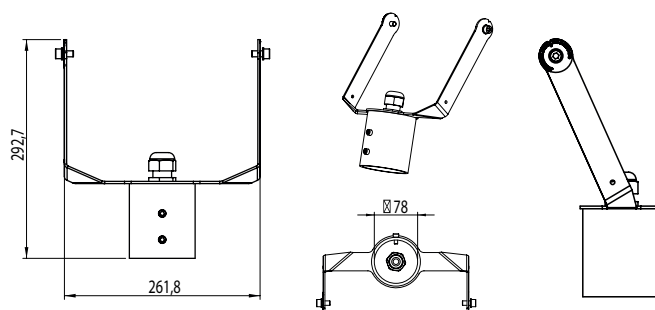
Support Tools

Hanger Set



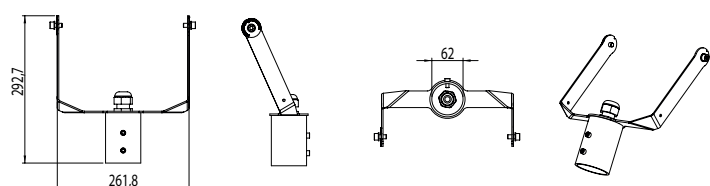
Order Code 2084130

Ø76 Tube Hanger Set



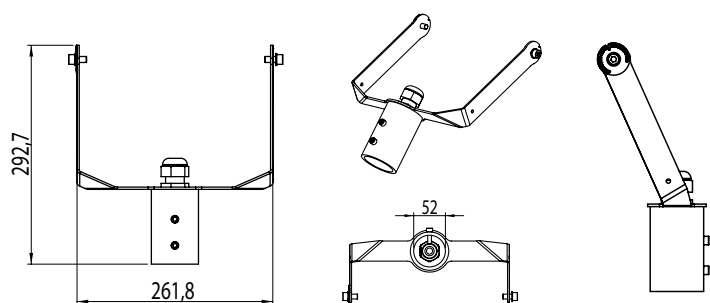
Order Code 3345372

Ø60 Tube Hanger Set



Order Code 3324097

Ø42-48 Tube Hanger Set



Order Code 3345367



Zone 2.22

II 3G Ex ec IIC T4 Gc
II 3D Ex tc IIIC T135 Dc

PROLIT EXPROOF

Developed for Ex-Proof Zone 2.22 lighting, PROLIT KOMPAKT, exhibits excellent performance against heat and impacts with its extra resistant body against explosion and fire risk. In addition to its IP66 class resistant body, it captures the best light output thanks to its efficient LED. Especially designed for use in petrochemical, chemical production, shipbuilding, oil and gas industries. The product, which has ATEX and EAC certificates, meets the lighting needs in Zone 2.22 explosive environments in the best way.



Exproof Product Features

Zone	: Zone 2.22
Group / Category	: II / 3GD
Protection Classs	: ec / tc
Explosion Group	: IIC / IIIC
Maximum Surface	: T4 / T135°C
Temperature Class	
Certificate Code	: EX II 3G Ex ec IIC T4 Gc EX II 3D Ex tc IIIC T135°C Dc

Mechanical Features

Housing	: Aluminum Injection Housing
Luminaire Surface	: Thermal Tempered Glass
Sealing	: High Temperature Resistant Silicone Gasket
Gland (Inlet)	: 1 x M16
Support Tools	: Internal Hanger
Screws and bolts	: AISI 316 Stainless Steel
IP	: IP66

Electrical and Optical Properties

Light Source	: POWER LED
Consumption Power	: 102W / 150W / 176W / 206W
Lumen	: 14879 lm / 19753 lm / 22585 lm / 25760 lm
Input Voltage	: 220-240V (50-60 Hz)
Colour Temperature	: 4000K
CRI	: ≥ 70
Optical	: 16° / 27° / 52° / 98° / AS

Other Features

Support Type	: Ceiling, Cable Tray, Pole
Housing Colour	: MV 3004 (Emergency Kit)

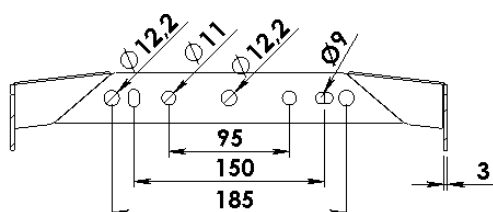
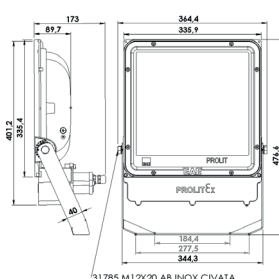
Options

Gland Inlet	: M16, M20, M25, NPT 3/4 and Armored Glands
Gland Outlet	: M16, M20 and Armored Glands
DALI	: Yes

Dimensions

Width	: 336 mm
Length	: 476 mm
Height	: 173 mm
Weight	: 9 Kg

Technical Drawing

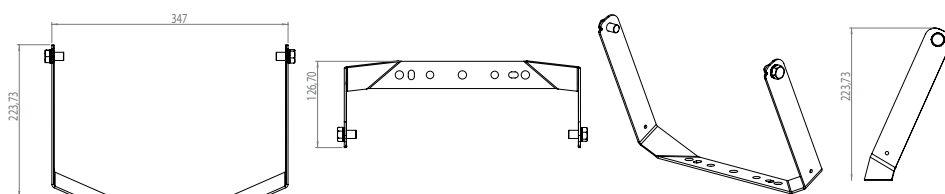


-20°C +55°C



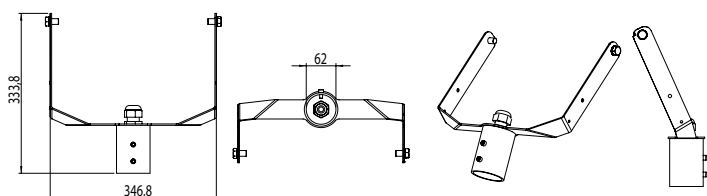
Support Tools

Hanger Set



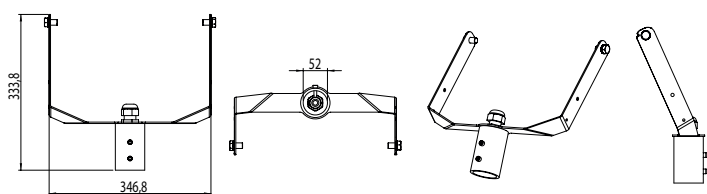
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Ø60 Tube Hanger Set



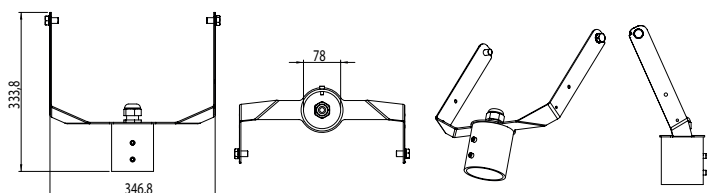
Order Code 3345373

Ø42-48 Tube Hanger Set



Order Code 3345373

Ø76 Tube Hanger Set



Order Code 3345377



Zone 2.22

II 3G Ex ec IIC T4 Gc
II 3D Ex tc IIIC T135 Dc

HBC EX ZONE 2

With its round Aluminium Injection Housing, HBC EX ZONE 2 offers high resistance in challenging conditions. Offering a long service life, HBC EX ZONE 2 is suitable for harsh weather conditions with its PMMA/PC surface. It is very efficient with its wide lumen range options and its economical MID POWER LED. Offering emergency kit and DALI options, this product minimizes possible lighting problems. Designed for harsh ambient conditions with temperature ranging from -30 °C to +55 °C, HBC EX ZONE 2 is the common solution of different industries which require lighting.



Exproof Product Features

Zone	: Zone 2.21 / 2.22
Group / Category	: II / 3G / 2D
Protection Classs	: nR / tb
Explosion Group	: IIC / IIIC
Maximum Surface	: T5 / T100°C - T6 / T85°C
Temperature Class	
Certificate Code	: II 3G Ex nR IIC T5,T6 Gc II 2D Ex tb IIIC T100, T85°C Db

Mechanical Features

Housing	: Aluminum Injection Housing
Luminaire Surface	: Thermal Tempered Glass & PC Lens
Sealing	: High Temperature Resistant Silicone Gasket
Gland (Inlet)	: 1 x M16
Screws and bolts	: AISI 316 Stainless Steel
IP	: IP66

Electrical and Optical Properties

Light Source	: MID POWER LED
Consumption Power	: 75W / 98W / 154W / 181W / 197W
Lumen	: 8000 lm / 11470 lm / 17517 lm / 19219 lm / 20125 lm
Input Voltage	: 220-240V (50-60 Hz)
Colour Temperature	: 2700K / 3000K / 4000K / 5000K / 5700K / 6500K
CRI	: ≥80
Optical	: 50° / 80°

Other Features

Support Type	: Ceiling, Cable Tray, Chain, Busbar
Housing Colour	: SW 306G (Smoked)

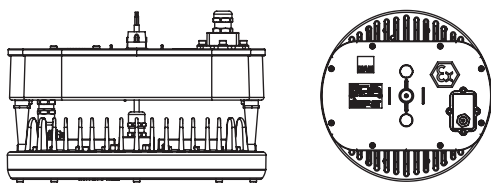
Dimensions

Width	: 315 mm
Height	: 215 mm
Weight	: 6.5 - 7.2 kg

Options

Gland Inlet	: M16, M20, M25, NPT 3/4 and Armored Glands
Gland Outlet	: M16, M20 and Armored Glands
DALI	: Yes
Emergency Kit	: Yes (1-3 Hours)

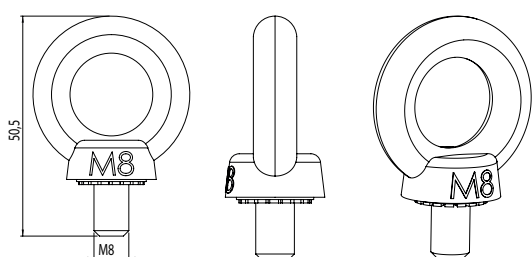
Technical Drawing





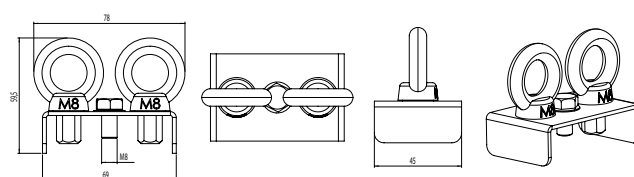
Support Tools

MAPA Single Hanger Set



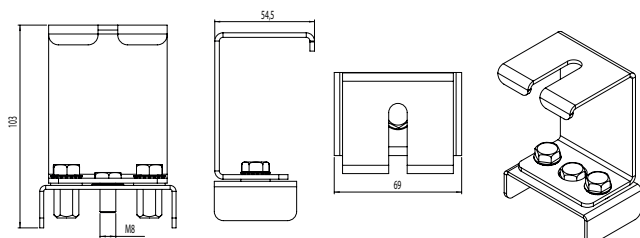
Order Code 3096325

Emergency Kit Double MAPA Hanger Set



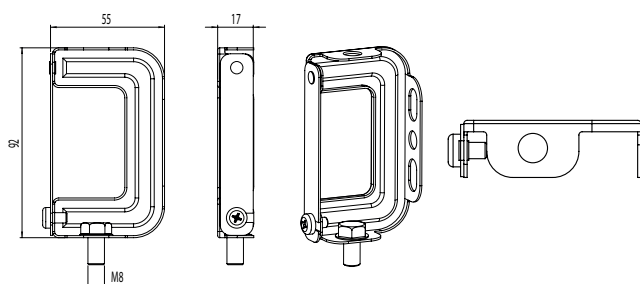
Order Code 3224449

Emergency Kit Cable Pan Hanger Set



Order Code 3188240

Busbar Hanger Set



Order Code 3188241



Zone 2.21 / 2.22

II 3G Ex nR IIC T5, T6 Gc

II 2D Ex tb IIIC T100, T85°C Db

Designed for Ex-Proof, Zone 2.22 lighting, Cushido polycarbonate housing with high impact and heat resistance guarantees a long service life. Offering alternative support types and an emergency kit option, this product provides safe light distribution thanks to its Polycarbonate diffuser. Cushido offers economy thanks to its MID POWER LED. With its advanced structure and affordable cost, it offers quality lighting solutions for harsh conditions with temperatures ranging from -25 °C to +55 °C.



Exproof Product Features

Zone	: Zone 2.22
Group / Category	: II / 3GD
Protection Classs	: nR / tc
Explosion Group	: IIC / IIIC
Maximum Surface Temperature Class	: T6 / T85°
Certificate Code	: EX II 3G Ex nR IIC T6 Gc EX II 3D Ex tc IIIC T85°C Dc

Mechanical Features

Housing	: Robust Polycarbonate Housing (PC) with High Mechanical Resistance
Luminaire Surface	: Robust Polycarbonate Diffuser (PC) with High Mechanical Resistance
Sealing	: Polyurethane Cast Gasket
Gland (Inlet)	: Input std. 1 x ISO M20
Screws and bolts	: AISI 316 Stainless Steel
IP	: IP66

Electrical and Optical Properties

Light Source	: MID POWER LED
Consumption Power	: 22W / 27W / 30W / 37W / 42W / 53W / 58W / 71W
Lumen	: 2910 lm / 3640 lm / 4000 lm / 5010 lm / 5820 lm / 7280 lm / 8010 lm / 10010 lm
Input Voltage	: 220-240V (50-60 Hz)
Colour Temperature	: 4000K / 6500K
CRI	: ≥80
Optical	: Wide Angle 120°

Other Features

Support Type	: Ceiling, Wall, Cable Tray, Angled, Pendant
Housing Colour	: RAL 9002

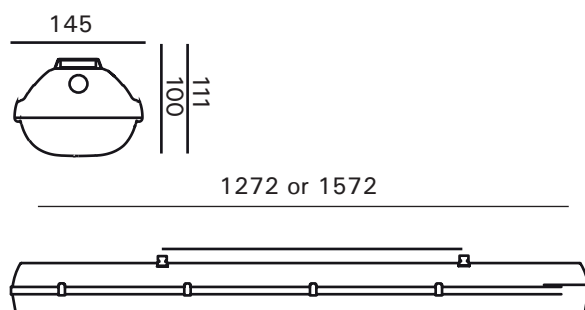
Options

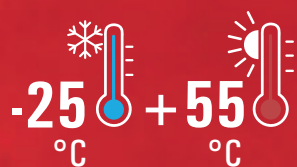
Emergency Kit	: Yes (1-3 Hours)
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Dimensions

Width	: 145 mm
Length	: 1272 / 1572 mm
Height	: 111 mm
Weight	: 3.2 - 4.4 kg

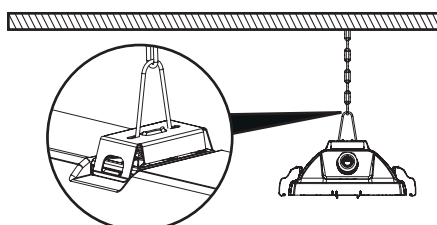
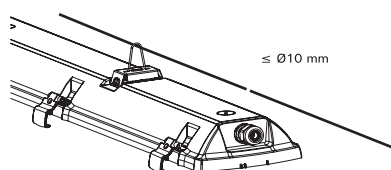
Technical Drawing



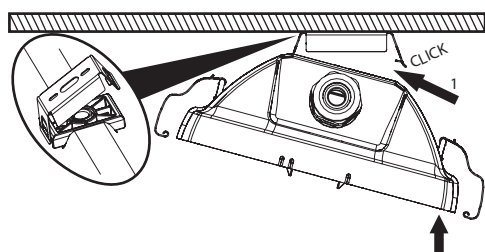


Support Tools

Wall Installation and Ceiling Support Installation



Ceiling and Wall / Angled Installation



Zone 2.22

II 3G Ex nR IIC T6 Gc
II 3D Ex tc IIC T85 Dc

DPE

This equipment is an explosion-proof LED luminaire. It has increased safety “nr” protection classes in Zone 2 in explosive gas atmosphere and “tb” protection classes in Zone 21 in explosive dust atmosphere against dust ignition. The LEDs and driver are housed in an IP65 protected enclosure. All cables, moisture plugs, glands and terminal blocks are certified.



Exproof Product Features

Zone : Zone 2 / 21
 Group / Category : II / 3G / 2D
 Protection Classs : nR / tb
 Explosion Group : IIC / IIIC
 Maximum Surface : T6 / T75°C
 Temperature Class
 Certificate Code : II 3G Ex nR IIC T6 Gc
 II 2D Ex tb IIIC T75°C Db

Mechanical Features

Housing : Metal Sac Housing
 Luminaire Surface : Thermal Tempered Glass
 Sealing : TPV Conta
 Gland (Inlet) : 1 x M16
 Gland (Outlet) : 1 x M16
 Screws and bolts : IP65

Electrical and Optical Properties

Light Source : MID POWER LED

D Type (Housing 1)							V Type (Housing 2)			Z Type (Housing 2)			
W	36	40	44	48	52	55	W	87	127	W	87	127	
Lm	4398	4833	5268	5700	6131	6562	Lm	10000	14592	Lm	10000	14592	

D Type (Housing 2)															
W	59	63	67	71	73	75	79	83	87	91	97	103	105	113	121
Lm	6989	7414	7840	8262	8683	8800	9105	9522	10000	10600	11299	12000	12140	12976	13807

*Consumption Power (W)

*Lumen (Lm)

Input Voltage : 220-240V (50-60 Hz)
 Colour Temperature : 2700K / 3000K / 4000K / 5000K / 5700K / 6500K
 CRI : ≥ 80
 Optical : Wide Angle 120°

Other Features

Support Type : Sheet Metal Panel
 Housing Colour : RAL 9016

Dimensions (mm)

D Type
 Width : 1150
 Length : 490
 Height : 134

V Type
 Width : 1754
 Length : 542
 Height : 147

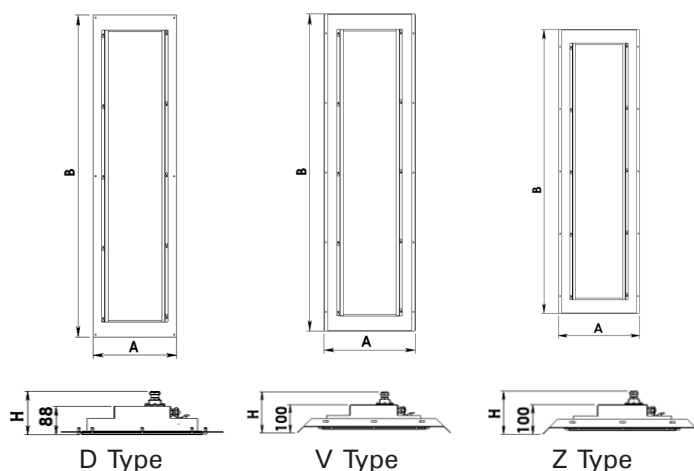
Z Type
 Width : 1754
 Length : 542
 Height : 147

Weight : 19 - 23 Kg
 28 | EAE LIGHTING

Options

Gland Inlet : M16, M20, M25, NPT 3/4
 and Armored Glands
 Gland Outlet : M16, M20 and Armored Glands
 DALI : Yes
 Emergency Kit : Yes (1-3 Hours)
 Sheet Metal : Wall Surface Mounting

Technical Drawingler



-20°C +45°C



Zone 2.21 / 2.22

II 3G Ex nR IIC T6 Gc

II 2D Ex tb IIIC T75°C Db

GALIS EXIT ZONE 2.21

GALIS EX-PROOF EXIT is a perfect example of emergency exit lighting design in explosive areas. Designed to be used in Zone 2.21 / 2.22 areas, the product has optional electronic control options for maintenance and non-maintenance.



Exproof Product Features

Zone	: Zone 2.21 / 2.22
Group / Category	: II / 3G / 2D
Protection Classs	: nR / tb
Explosion Group	: IIC / IIIC
Maximum Surface	: T6 / T55°C
Temperature Class	
Certificate Code	: EX II 3G Ex nR IIC T6 Gc EX II 2D Ex tb IIIC T55°C Db

Mechanical Features

Housing	: Aluminum Extrusion Housing
Luminaire Surface	: Thermal Tempered Glass
Sealing	: High Temperature Durable Silicone Gasket
Rakor	: 1 x M20
Screws and bolts	: AISI 316 Stainless Steel
IP	: IP66

Electrical and Optical Properties

Light Source	: MID POWER LED
Consumption Power	: 5W
Lumen	: 629 lm
Input Voltage	: 220-240V (50-60 Hz)
Colour Temperature	: 2700K / 3000K / 4000K / 5000K / 5700K / 6500K
CRI	: ≥80
Optical	: Wide Angle 120°

Other Features

Support Type	: Pipe, Angled, Profile, Pendant, Ceiling
Housing Colour	: Grey Painted Alluminum

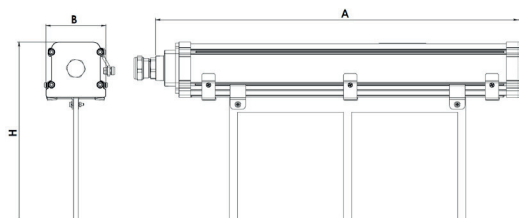
Dimensions

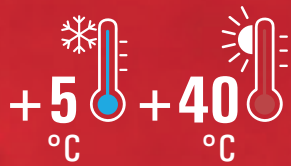
Width	: 460 mm
Length	: 230 mm
Height	: 76 mm
Weight	: 2,1 Kg

Options

Gland Inlet	: M20, M25, NPT 3/4 and Armored Glands
Emergency Kit	: Yes (1-3 Hours), Activated by Power Outage

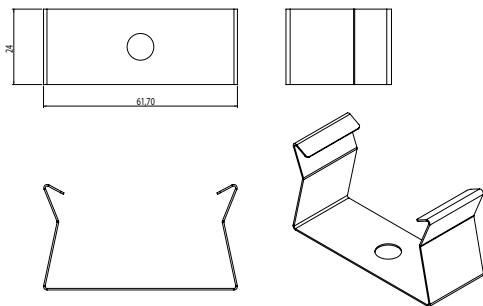
Technical Drawing





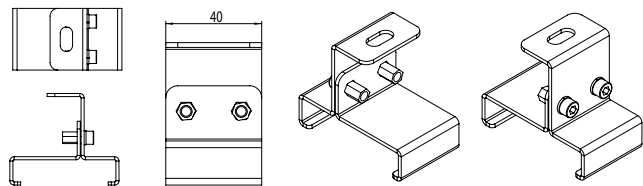
Support Tools

Hanger Spring



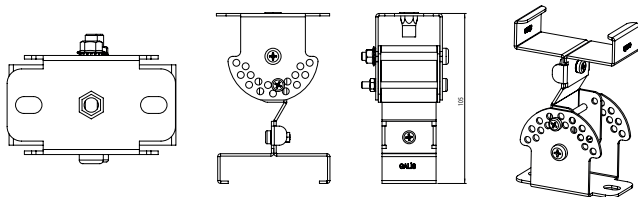
Order Code 1006876

Fixed Hanger Set (Double)



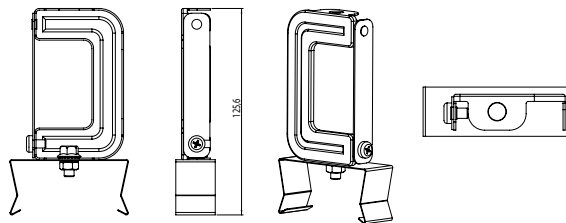
Order Code 3164773

Angled Hanger Set (Stainless)



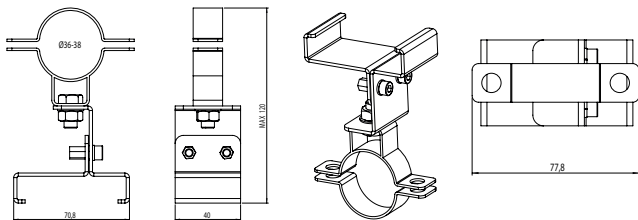
Order Code 3236243

Bara Hanger Set (Double)



Order Code 3290008

Ex Clamp Fixed Hanger Kit



Order Code 3290438



Zone 2.21 / 2.22

EX II 3G Ex nR IIC T6 Gc
EX II 2D Ex tb IIIC T55°C Db

GALIS EXPROOF

Galis combines high efficiency and technology with explosion protection. It exhibits excellent performance thanks to its LEDs inside. With Zone 2.22 and Zone 2.21 Zone protections, it provides safe lighting in flammable, explosive and dusty environments.



Exproof Product Features

Zone : Zone 2.21 / 2.22
Group / Category : II / 3G / 2D
Protection Classs : nR / tb
Explosion Group : IIC / IIIC
Maximum Surface : T6 / T55°C
Temperature Class
Certificate Code : EX II 3G Ex nR IIC T6 Gc
EX II 2D Ex tb IIIC T55°C Db

Mechanical Features

Housing : Aluminum Extrusion Housing
Luminaire Surface : Thermal Tempered Glass
Sealing : High Temperature
Resistant Silicone Gasket
Gland (Inlet) : 1 x M20
Gland (Outlet) : 1 x M20
Screws and bolts : AISI 316 Stainless Steel
IP : IP66

Electrical and Optical Properties

Light Source : MID POWER LED
Consumption Power : 19W / 23W / 28W / 37W / 55W / 70W
Lumen : 2443 lm / 3158 lm / 4106 lm /
5208 lm / 7711 lm / 9716 lm
Input Voltage : 220-240V (50-60 Hz)
Colour Temperature : 4000K
CRI : ≥ 80
Optical : Wide Angle 120°

Other Features

Support Type : Pipe, Angled, Profile, Pendant, Ceiling
Housing Colour : RAL 7047 (Grey)

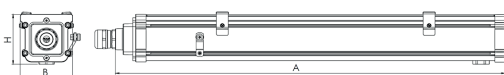
Dimensions

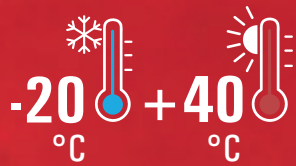
Width : 176 mm
Length : 566 mm / 886 mm / 1286 mm /
1528 mm / 1315 mm / 1557 mm
Height : 76 mm
Weight : 2,3 Kg - 5,4 Kg

Options

Gland Inlet : M20, M25, NPT 3/4
and Armored Glands
Gland Outlet : M20, M25, NPT 3/4
and Armored Glands
Emergency Kit : Yes (1-3 Hours)

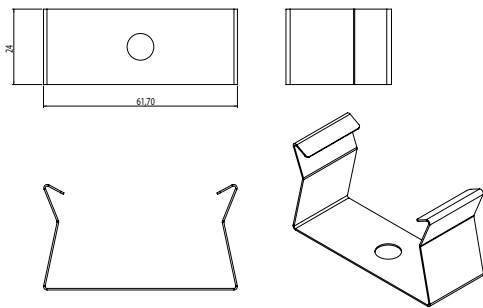
Technical Drawing





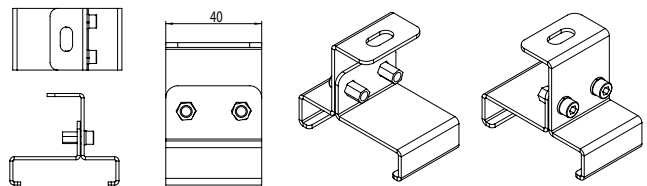
Support Tools

Hanger Spring



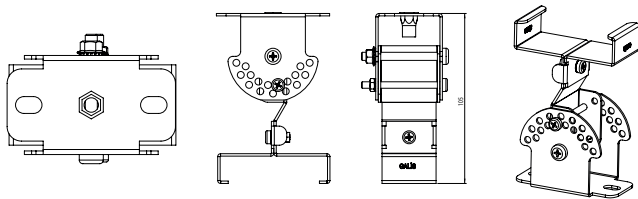
Order Code 1006876

Fixed Hanger Set (Double)



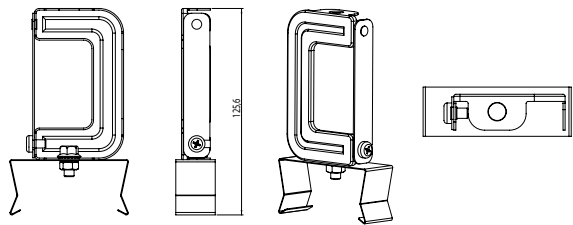
Order Code 3164773

Angled Hanger Set (Stainless)



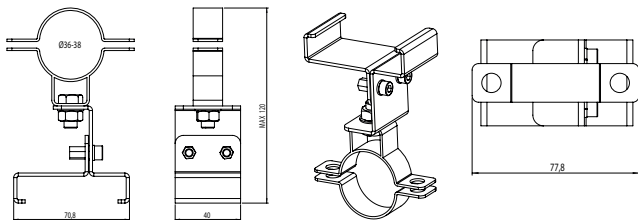
Order Code 3236243

Bara Hanger Set (Double)



Order Code 3290008

Ex Clamp Fixed Hanger Kit



Order Code 3290438



Zone 2.21 / 2.22

EX II 3G Ex nR IIC T6 Gc
EX II 2D Ex tb IIIC T55°C Db

EX-COR ZONE 2.22

This equipment is an explosion-proof LED luminaire. It has protection classes "nR" limited inhalation in Zone 2 in explosive gas atmosphere and "tc" against dust ignition in Zone 22 in explosive dust atmosphere. The LEDs and driver are housed in an IP65 protected enclosure. All cables, moisture plugs, glands and terminal blocks are certified. The appearance of each model is identical, the main differences are the power ratings



Exproof Product Features

Zone : Zone 2.22
Group / Category : II / 3GD
Protection Classs: nR / tc
Explosion Group : IIC / IIIC
Maximum Surface T6 / T85°C
Temperature Class
Certificate Code : EX II 3G Ex nR IIC T6 Gc
EX II 3D Ex tc IIIC T85°C Dc

Mechanical Features

Housing : GRP Housing
(Glass reinforced polyester)
Işık Yüzeyi : PC (Polycarbonate) Opal Diffuser
Sealing : Polyurethane Casting Gasket
Gland (Inlet) : 1x M20 Plastic Ex
Gland (Outlet) : 1x M20 Plastic Ex
Screws and bolts : AISI 301 Stainless Steel
IP : IP65

Electrical and Optical Properties

Light Source : MID POWER LED
Consumption Power : 29W / 40W / 51W / 60W / 72W / 81W
Lumen : 3478 lm / 3453 lm / 5117 lm / 6487 lm / 7538 lm / 8961 lm / 9906 lm
Input Voltage : 220-240V (50-60 Hz)
Colour Temperature : 2700K / 3000K / 4000K / 5000K / 5700K / 6500K
CRI : ≥ 80
Optical : Wide Angle 120°

Other Features

Support Type : Ceiling, Wall,
Cable Tray, Pendant
Housing Colour : RAL 9002 (Grey)

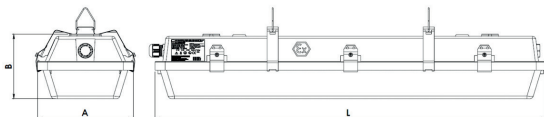
Options

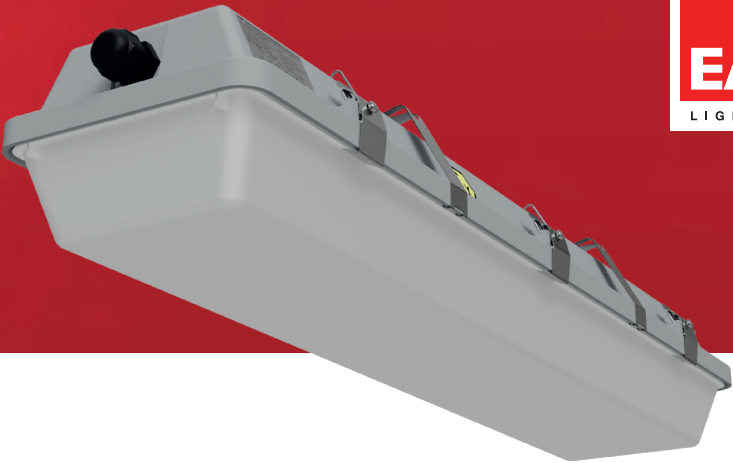
Gland Inlet : M20, M25 and Armored Glands
Gland Outlet : M20, M25 and Armored Glands
DALI : Yes
Emergency Kit : Yes (1-3 Hours)

Dimensions

Width : 172 mm
Length : 702 mm / 1312 mm / 1602 mm
Height : 115 mm
Weight : 2,6 - 4,3 kg

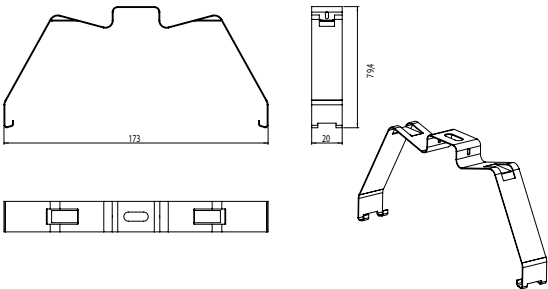
Technical Drawing





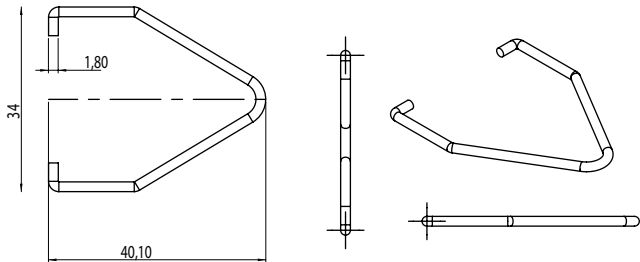
Support Tools

Hanger Set



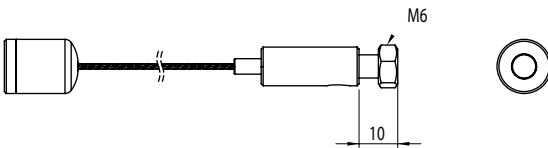
Order Code 1052998

Hanger Spring



Order Code 1053518

Elevator Hanger Kit (50CM / 100CM / 150CM / 200CM)



Order Code	3325607	M6X10 - 50CM
	3325604	M6X10 - 100CM
	3325605	M6X10 - 150CM
	3325606	M6X10 - 200CM



Zone 2.22
EX II 3G Ex nR IIC T6 Gc
EX II 3D Ex tc IIIC T85°C Dc

EX-DUAL EXIT ZONE 2.21

This equipment is an explosion-proof Zone-2.21 LED directional luminaire. It has protection classes "nR" against limited inhalation in Zone 2 in explosive gas atmosphere and "tb" against dust ignition in Zone 21 in explosive dust atmosphere. The LEDs and driver are housed in an IP66 protected enclosure. All cables, glands and terminals are certified. Each model is identical in size and appearance.



Exproof Product Features

Zone	: Zone 2.21
Group / Category	: II / 3G / 2D
Protection Classs	: Gc / Db
Explosion Group	: IIC / IIIC
Maximum Surface	: T6 / T80°C
Temperature Class	
Certificate Code	: EX II 3G Ex nR IIC T6 Gc EX II 2D Ex tb IIIC T80°C Db

Mechanical Features

Housing	: GRP Housing (Glass reinforced polyester)
Luminaire Surface	: Thermal Tempered Glass ve Sticker
Sealing	: High Temperature Resistant Silicone Gasket
Gland (Inlet)	: 1 x M16 Plastic Ex
Gland (Outlet)	: 1 x M16 Plastic Ex
Screws and bolts	: AISI 316 Stainless Steel
IP	: IP66

Electrical and Optical Properties

Light Source	: Mid Power Led
Consumption Power	: 6W
Lumen	: 107 lm
Input Voltage	: 220-240V (50-60 Hz)
Colour Temperature	: 2700K / 3000K / 4000K / 5000K / 5700K / 6500K
CRI	: ≥ 80
Optical	: Wide Angle 120°

Other Features

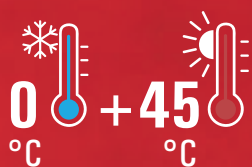
Support Type	: Pendant
Housing Colour	: RAL 7047 (Grey)

Dimensions

Width	: 90
Length	: 402
Height	: 184
Weight	: 3 - 3.2 Kg

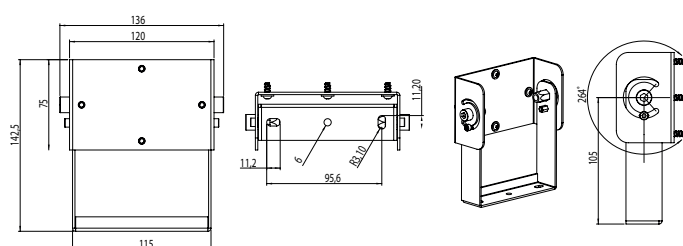
Options

Gland Inlet	: M16, M20, M25, NPT 3/4 and Armored Glands
Gland Outlet	: M16, M20, M25, NPT 3/4 and Armored Glands
DALI	: Yes
Emergency Kit	: Yes (1-3 Hours), Activated by Power Outage



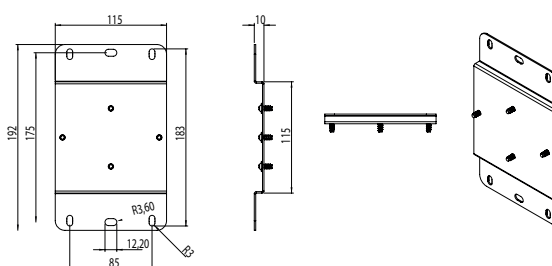
Support Tools

Angled Hanger Kit



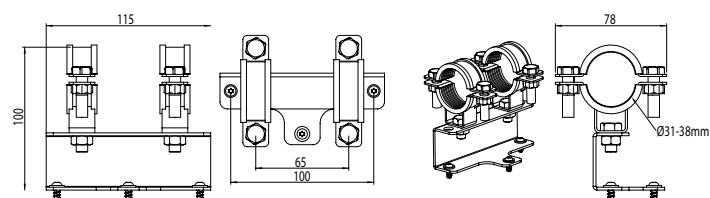
Order Code 3322256

Wall Mount Hanger Kit



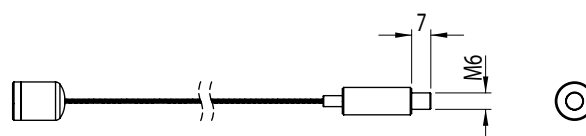
Order Code 3322260

Tube Hanger Kit



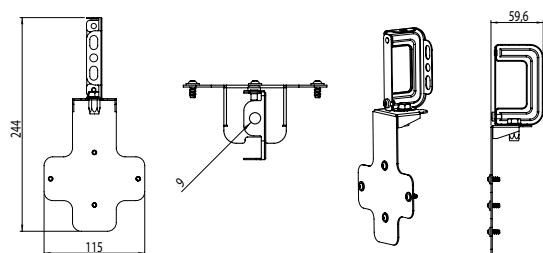
Order Code 3322258

Elevator Hanger Kit



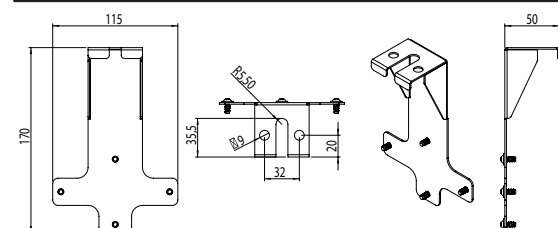
Order Code
3336380 - M6X7 - 50CM
3336383 - M6X7 - 100CM
3336381 - M6X7 - 150CM
3336382 - M6X7 - 200CM

Busbar Hanger Kit



Order Code 3322259

Cable Tray and Ceiling Suspension Set



Order Code 3322258



Zone 2.21 / 2.22

EX II 3G Ex nR IIC T6 Gc
EX II 2D Ex tb IIIC T80°C Db

EX-DUAL ZONE 2.21

This equipment is an explosion-proof Zone-2.21 LED luminaire. It has protection classes "nR" against limited inhalation in Zone 2 in explosive gas atmosphere and "tb" against dust ignition in Zone 21 in explosive dust atmosphere. The LEDs and driver are housed in an IP66 protected enclosure. All cables, glands and terminals are certified. Each model is identical in size and appearance.



Exproof Product Features

Zone	: Zone 2 / Zone 21
Group / Category	: II / 3G / 2D
Protection Classs	: Gc / Db
Explosion Group	: IIC / IIIC
Maximum Surface	: T6
Temperature Class	
Certificate Code	: EX II 3G Ex nR IIC TX Gc EX II 2D Ex tb IIIC TXX°C Db

Mechanical Features

Housing	: GRP Housing (Glass reinforced polyester)
Luminaire Surface	: Thermal Tempered Glass ve PC Lens
Sealing	: High Temperature Resistant Silicone Gasket
Gland (Inlet)	: 1 x M16 Plastic Ex
Gland (Outlet)	: 1 x M16 Plastic Ex
Screws and bolts	: AISI 316 Stainless Steel
IP	: IP66

Electrical and Optical Properties

Light Source	: Mid Power Led
Consumption Power	: 26W / 33W / 42W
Lumen	: 3414 lm / 4195 lm / 5276 lm
Input Voltage	: 220-240V (50-60 Hz)
Colour Temperature	: 2700K / 3000K / 4000K / 5000K / 5700K / 6500K
CRI	: ≥ 80
Optical	: 18° / 23° / 30° / 45° / 60° / 90° / Wide Angle 120°

Options

Emergency Kit	: Yes (1-3 Hours)
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Other Features

Support Type	: Surface Mounted
Housing Colour	: RAL 7047

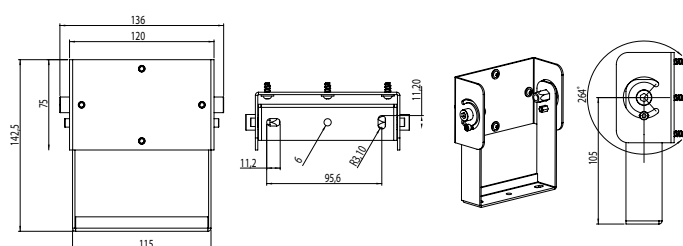
Dimensions

Width	: 184 mm
Length	: 402 mm
Height	: 90 mm
Weight	: 3,2 - 3,5 Kg



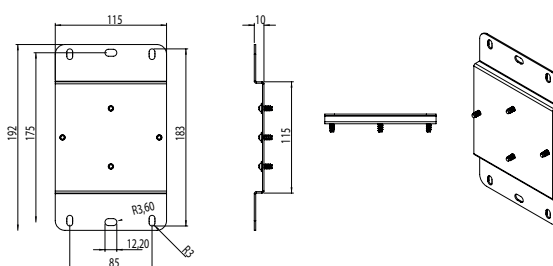
Support Tools

Angled Hanger Set



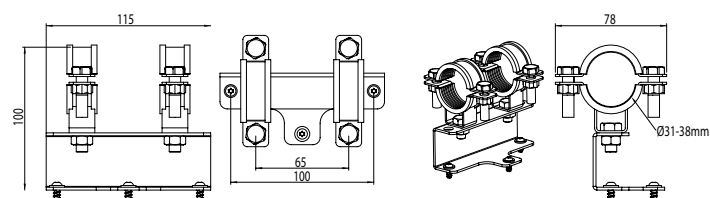
Order Code 3322256

Wall Mount Hanger Kit



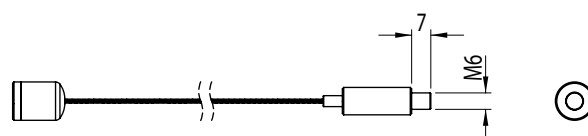
Order Code 3322260

Tube Hanger Set



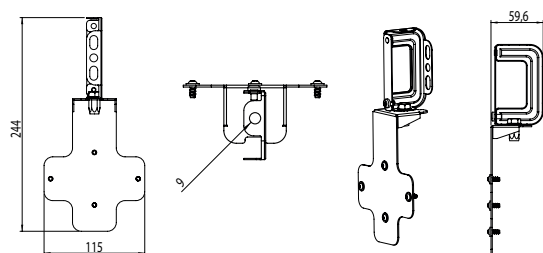
Order Code 3322258

Elevator Hanger Set



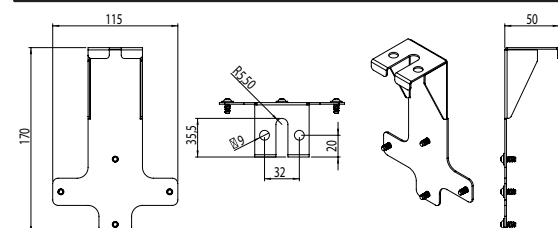
Order Code
3336380 - M6X7 - 50CM
3336383 - M6X7 - 100CM
3336381 - M6X7 - 150CM
3336382 - M6X7 - 200CM

Busbar Hanger Set



Order Code 3322259

Cable Tray and Ceiling Suspension Set



Order Code 3322258



Zone 2.21 / 2.22

EX II 3G Ex nR IIC TX Gc
EX II 2D Ex tb IIIC TXX°C Db

LINEX ZONE 2.21

This equipment is an explosion-proof Zone-2.21 LED luminaire. It has Protection Classes “ec” in Zone 2 for explosive gas atmosphere and Protection Classes “tb” in Zone 21 for explosive dust atmosphere. The LEDs and driver are housed in an IP66 protected enclosure. All cables, glands and terminals are certified. The appearance of each model is identical. The main differences are Length, power and product features.



Exproof Product Features

Zone	: Zone 2 / Zone 21
Group / Category	: II / 3G / 2D
Protection Classs	: Gc / Db
Explosion Group	: IIC / IIIC
Maximum Surface Temperature Class	: T6 / T85°C
Certificate Code	: EX II 3G Ex ec IIC T6 Gc EX II 2D Ex tb IIIC T85°C Db

Mechanical Features

Housing	: Aluminum Extrusion Housing
Luminaire Surface	: PC Opal Diffuser
Sealing	: High Temperature Resistant Silicone Gasket
Gland (Inlet)	: 1 x M20 Plastic Ex
Gland (Outlet)	: 1 x M20 Plastic Ex
Screws and bolts	: AISI 316 Stainless Steel
IP	: IP66

Electrical and Optical Properties

Light Source	: LED
Consumption Power	: 25W / 30W / 34W / 40W / 56W / 64W / 73W / 79W
Lumen	: 3267 lm / 3945 lm / 4453 lm / 5277 lm / 7417 lm / 8340 lm / 9443 lm / 10328 lm
Input Voltage	: 220-240V (50-60 Hz)
Colour Temperature	: 2700K / 3000K / 4000K / 5000K / 5700K / 6500K
CRI	: ≥ 80
Optical	: Wide Angle 120°

Options

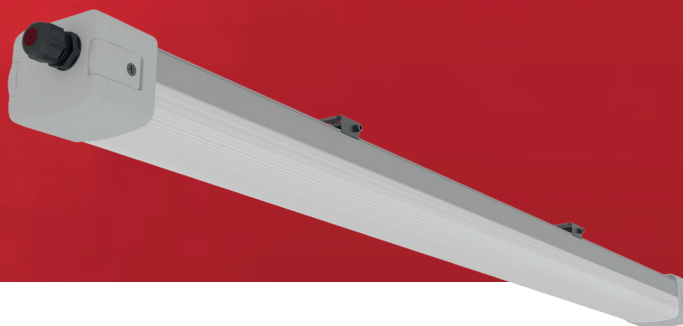
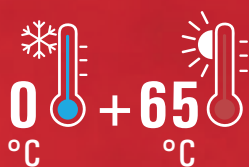
Rakor	: M20 Armored Gland
Emergency Kit	: Yes (1-3 Hours)

Other Features

Support Type	: Surface Mount
Housing Colour	: RAL 9016 (Gray White)

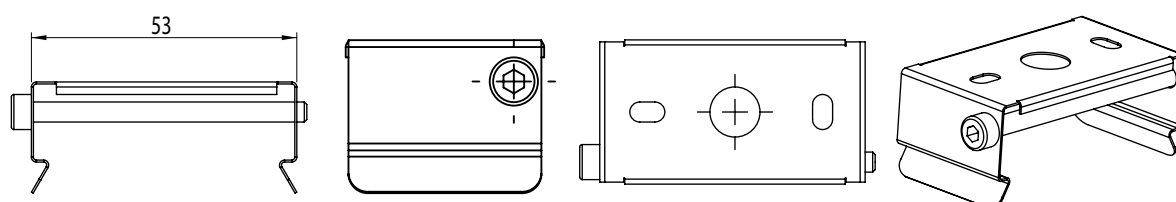
Dimensions

Width	: 88 mm
Length	: 70 mm
Height	: 1200 mm
Weight	: 1,9 - 2,5 Kg

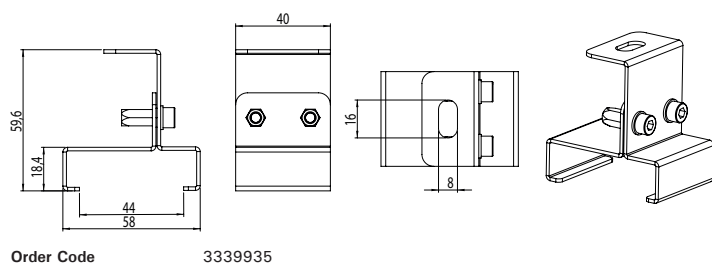


Support Tools

Hangar Spring (Comes With Product)

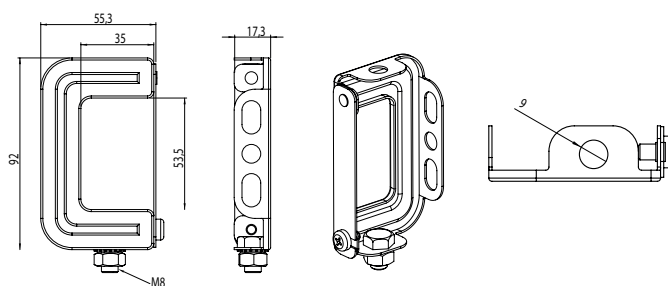


Fixed Hangar Set



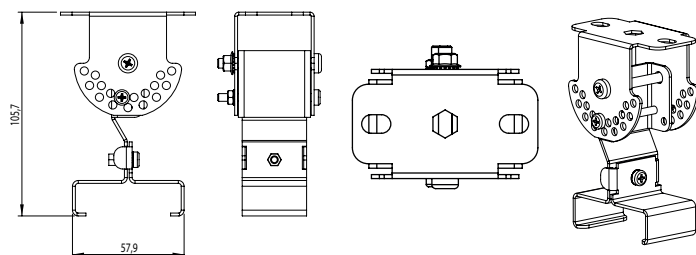
Order Code 3339935

Busbar Hangar Set



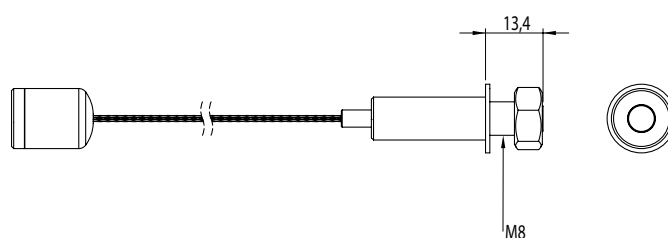
Order Code 3330966

Angled Hangar Set



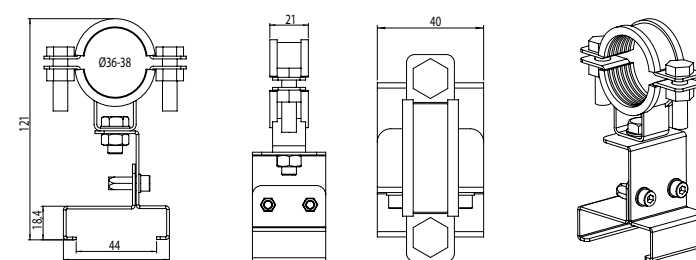
Order Code 3330579

Elevator Hangar Kit



Order Code
 3142319 - M8X13,5 - 50CM
 3142320 - M8X13,5 - 100CM
 3142321 - M8X13,5 - 150CM
 3142322 - M8X13,5 - 200CM
 3142323 - M8X13,5 - 300CM
 3142324 - M8X13,5 - 500CM

Tube Hangar Set

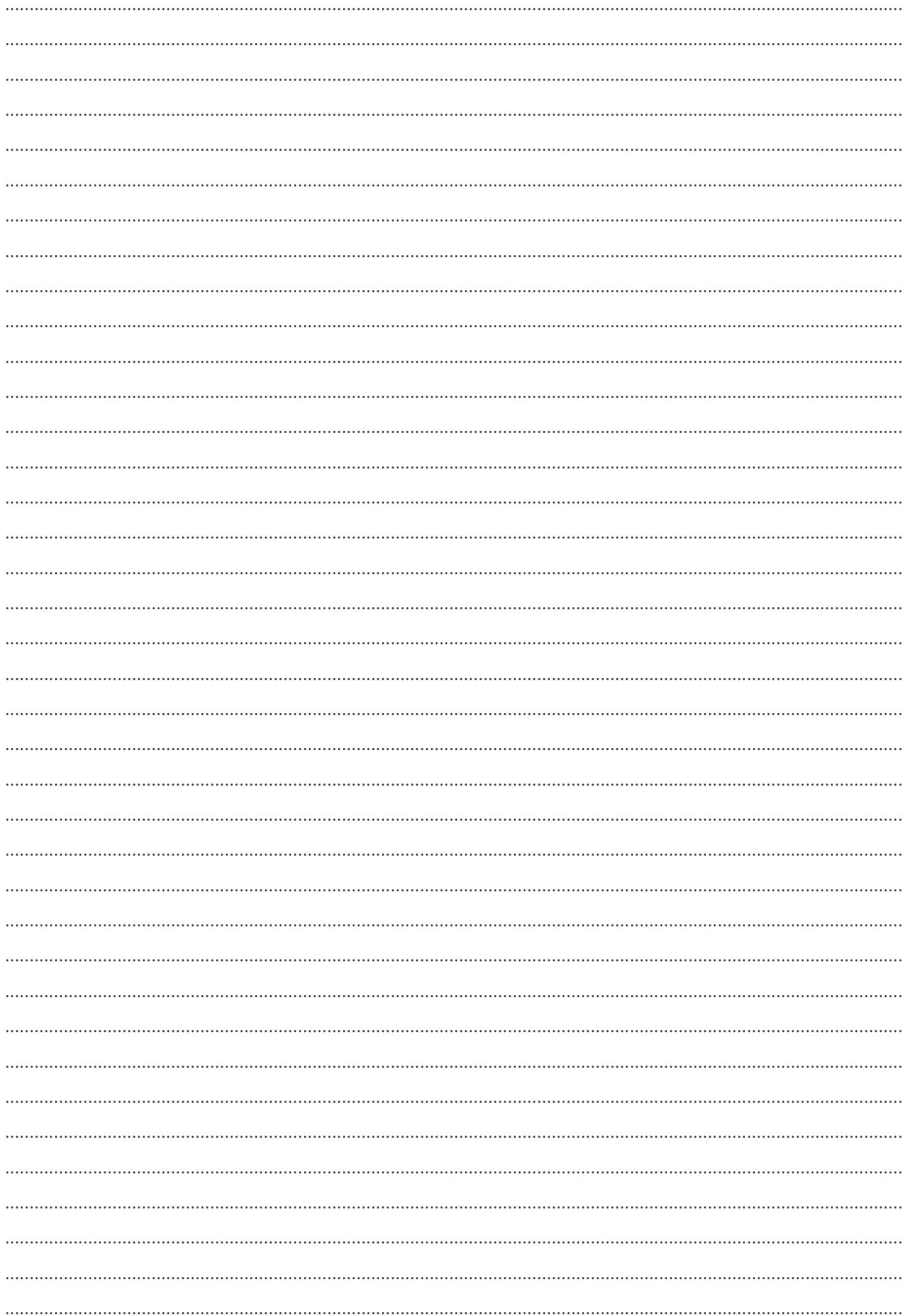


Order Code 3339933



Zone 2.21 / 2.22

EX II 3G Ex ec IIC T6 Gc
 EX II 2D Ex tb IIIC T85°C Db







EAE LIGHTING Ex-Proof Lighting Products Catalog (English) - Updated: 25.03.2025
EAE Lighting reserves the right to make changes deemed necessary without prior notice.
Please contact us for more information about the products and details in the catalog.



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engineering the light