BARTEC

Probay Ex2

High bay LED Lighting fixture for zone 2/21

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Note on instructions

When working in potentially explosive areas, the safety of people and systems depends on compliance with the relevant safety regulations. Persons responsible for assembly and maintenance bear a special responsibility. A prerequisite for this is precise knowledge of the applicable rules and regulations.

The instructions summarise the most important safety measures and must be read by everyone working with the product in order to make sure that they are familiar with the correct handling of the product.

The instructions must be retained and must be available throughout the life of the product.

Description

The Probay Ex2 series lighting fixtures are specifically designed for use in potentially explosive areas. High quality electronic components guarantee high efficiency up to 179 lm/W and extremely long lifetime 100 000 h even at high temperatures.

Their IP66 and IK10 protection ratings guarantee reliable performance even in harsh environments. The lightweight and durable body, constructed made of extremely durable aluminium (RAL7043).

Reference standards

Directive 2014/34/EU	
ATEX Ex protection type	Ⓔx II 3G Ex nR IIC T6...T5 Gc Ⓔx II 2D Ex tb op is IIIC T85 °C Db
ATEX certificate number	FTZÚ 24 ATEX 0067X
Rules of compliance	EN/IEC 60079-0: 2018 including amendment; EN 60079-15: 2010 including amendment EN 60079-28: 2016; EN 60079-31: 2014;
IECEx Ex protection type	Ex nR IIC T6...T5 Gc Ex tb op is IIIC T85°C Db
IECEx certificate number	IECEx FTZÚ 24.0019X
Ingress protection	IP66
Impact Protection	IK10
Temperature range	-40 °C ÷ +70 °C

Electrical characteristics

Power supply	EP – electronic - 220–240 V, 50/60 Hz
Lamp source	LED 4000K, CRI +80 Lifetime: > 50.000 hours L90B50 Ta@ 25 °C > 150.000 hours L80B50 Ta@ 25 °C > 170.000 hours L70B50Ta@ 70 °C
Connection	Equipped with 2,0m cable (standard: 3x 1,5 mm² / DALI: 5x 1,5 mm²)

Mechanical characteristics

Body	Aluminium profile RAL 7043
Diffuser	Clear tempered safety glass
Closing clips	2 pcs stainless steel fastening bracket - AISI 304
Cable entry	Standard version equipped with plastic cable gland, except for +70 °C version metal cable gland is used.

Ambient temperature

-20°C ≤ Ta ≥ +70°C for Probay Ex2 T70	Temperature class T5
-20°C ≤ Ta ≥ +60°C for Probay Ex2 T60	Temperature class T5
-20°C ≤ Ta ≥ +50°C for Probay Ex2 T50	Temperature class T6
-20°C ≤ Ta ≥ +40°C for Probay Ex2 T40	Temperature class T6
-40°C ≤ Ta ≥ +50°C for Probay Ex2 LOW	Temperature class T6

Safety Instructions

The Probay Ex2 lighting fixture may only be used within the specified temperature range. Unprotected, incorrect installation may result in malfunctions or loss of explosion protection.
The connection and installation/disassembly of Probay Ex2 lighting fixtures must be carried out by qualified personnel who are authorized and trained to install lighting fixtures in potentially explosive atmospheres. Use in any areas other than those specified or modification of the product by anyone other than the manufacturer releases BARTEC from liability for defects and further liability.

When setting up explosion-protected lighting fixtures, the relevant installation and operating regulations must be observed. The generally applicable legal rules and other binding guidelines on occupational safety, accident prevention and environmental protection must be observed.
The Probay Ex2 lighting fixture may only be operated in a clean, undamaged condition. Any modifications and alterations are not permitted.

Specific conditions of use

1. 1. Ambient temperature: - see Annex to the certificate No. IECEx FTZU 24.0019X, Issue 00.
2. The luminaire is intended for fixed installation and must be labelled “Warning - potential danger of electrostatic charging“ – see manufacturer’s Operational instructions of the lighting fixture installation.
3. The power supply cable shall be effectively fixed to prevent pulling or twisting.
4. The Operational instructions of the lighting fixture installation established by the manufacturer must be complied.

Marking

Particularly important points in these instructions are marked with a symbol:

DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.

WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

NOTICE is used to address practices not related to personal injury.

NOTE Important instructions and information on effective, economical and environmentally compatible handling.

Standards conformed to

Please See Attestations of Conformity.

Assembly, installation and commissioning

WARNING

Risk of serious injury due to incorrect procedures.

- Work on assembly, disassembly, installation and commissioning may only be carried out by authorised specialist personnel.
- Suitable tools shall be used.

Assembly/Disassembly

Prior to the assembly/disassembly, it must be ensured that the Probay Ex2 lighting fixture is in s condition (no cracks or damage).

Installation

WARNING

Potential danger of electrostatic charging.

- The luminaire must be installed in a position that prevents contact between people and parts of the fixture.
- The luminaire is intended for fixed installation.
- The luminaire should only be cleaned with a damp duster. It is necessary to maintain periodic cleaning intervals for the lighting fixture.
- Do not open while under voltage.
- Replace broken protective cover.

The luminaire can only be installed by an authorized person. When installing the luminaire, observe ESD safety using appropriate tools. After the light source is changed, it is necessary to also change the gasket in the luminaire.
After the driver is changed, it is necessary to also change the gasket in the driver's part. During commissioning, it is not necessary to perform the routine test of the luminaire.
The replacement of the light source, gasket, and other repairs of this luminaire can only be done by the manufacturer, its contractual service technician, or a similarly qualified person authorized by the manufacturer, and only with original spare parts. If the mounting instructions are not followed, the manufacturer cannot be held responsible for any incidental damages incurred.

NOTE

The connection of the device must be carried out in accordance to IEC/EN 60079-14 and with the information in the applicable operating instructions for the built-in devices. The applicable operating instructions can be downloaded from www.bartec.com or ordered directly from BARTEC GmbH

Connection of luminaire

The luminaire is equipped by 2m cable (3x1,5mm²/ 5x1,5mm²). The cable is ended by sleeves.

Standard luminaire:	Luminaire with DALI:
green-yellow wire = T	green-yellow wire = T
blue wire = N	blue wire = N
brown wire = L	brown wire = L
	black wire = DA
	grey wire = DA

The marking of individual terminals and connections may differ, depending on the required equipment of the luminaire. In case of confusion contact the technical support of BARTEC.

Commissioning

The following points must be observed before installation work may be commenced:

– The device is installed correctly
– The device is not damaged.

NOTE

The spare parts, attachments or switching and lighting modules are listed in the data sheet.

Operation

DANGER

Death or risk of injury due to improper use.

- TheProbay Ex2 lighting fixture may only be operated within the applicable technical limits.

Transport and storage

NOTICE

Damage to the Probay lighting fixture due to incorrect transport or incorrect storage.

- Transport and storage is permissible in original packaging only.

Maintenance and Troubleshooting

WARNING

Risk of serious injury due to incorrect procedure.

- Any maintenance and troubleshooting work may only be carried out by authorised specialist personnel.
- IEC/EN 60079-17 must be observed.

Maximum allowed number of lighting fixture for circuit breaker

Maximal short circuit current must not be higher than 10kA

Typ of lighting fixture	Order number	B10 A	B16 A	C10 A	C16 A
Probay Ex2 T50 1x modul	PRBZ215*****20*******FE	19	30	31	53
Probay Ex2 T50 2x modul	PRBZ225*****20*******FE	9	15	15	26
Probay Ex2 T50 3x modul	PRBZ235*****20*******FE	6	10	10	17
Probay Ex2 T40 4x modul	PRBZ244*****20*******FE	-	2	-	4
Probay Ex2 T60 1x modul	PRBZ216*****20*******FE	19	30	31	53
Probay Ex2 T60 2x modul	PRBZ226*****20*******FE	9	15	15	26
Probay Ex2 T60 3x modul	PRBZ236*****20*******FE	6	10	10	17
Probay Ex2 T60 4x modul	PRBZ246*****20*******FE	-	2	-	4
Probay Ex2 T70 1x modul	PRBZ217*****20*******FE	-	5	-	8
Probay Ex2 T70 2x modul	PRBZ227*****20*******FE	19	30	31	53
Probay Ex2 T70 3x modul	PRBZ237*****20*******FE	19	30	31	53
Probay Ex2 T70 4x modul	PRBZ247*****20*******FE	9	15	15	26
Probay Ex2 LOW 1x modul	PRBZ21L*****20*******FE	-	5	-	8
Probay Ex2 LOW 2x modul	PRBZ22L*****20*******FE	-	3	-	6
Probay Ex2 LOW 3x modul	PRBZ23L*****20*******FE	-	2	-	4
Probay Ex2 LOW 4x modul	PRBZ24L*****20*******FE	-	2	-	4

Positions and information relative to the labels

1	Brand, name and address of the manufacturer
2	Equipment type designation given by manufacturer
3	Nominal electrical characteristic
4	Ambient temperature range
5	Identification of Notified Body that have issued the certificate and its relative number
6	Distinctive community mark specific of explosion protection
7	ATEX / IECEx marking
8	Graphic symbol of conformity CE marking
9	Identifying number of Notified Body responsible of production surveillance on “ATEX” equipment

Maintenance

The operator of the Probay Ex2 lighting fixture must keep it in good condition, operate it properly, monitor it, clean it and check it regularly for any cracks and/or damage.

Fault Clearance

The Probay Ex2 lighting fixture is defective if it is cracked and/or damaged. Damaged or defective control and display devices cannot be repaired. They must be replaced in accordance with this user manual.

Accessories, Spare Parts

Please see the BARTEC catalogue.

Disposal

The components of the Probay Ex2 lighting fixture contain metal, glass and plastic parts. Therefore, the legal requirements for the disposal of electronic waste must be observed (e.g. disposal by an approved disposal company).

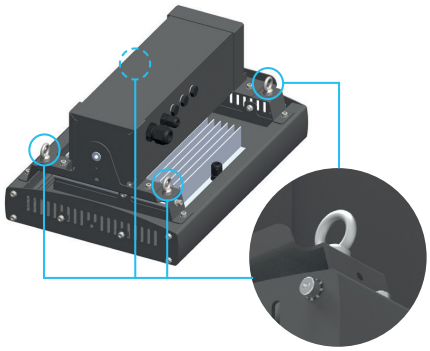
Service Address

ESS BU
BARTEC F.N.
Srl via Mario Pagano 3
20090 Trezzano sul Naviglio (Mi)
Italy

Phone: +39 02 48471
info@bartec-fn.com
www.bartec.com

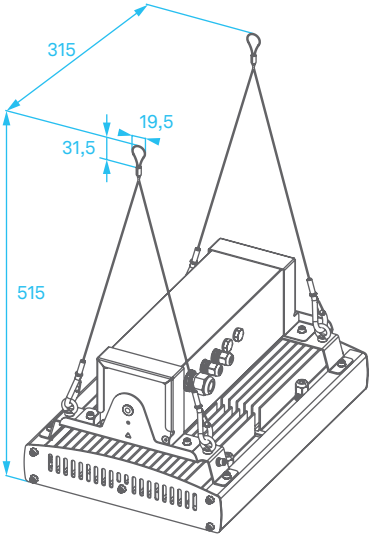
Reference details

Standard equipment →

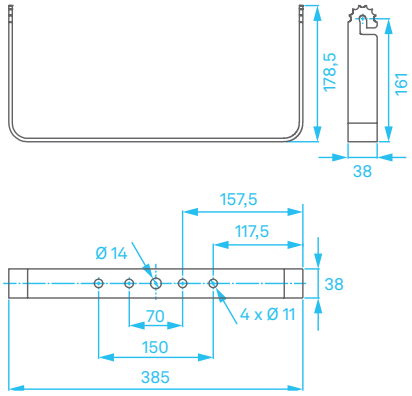


4 x stainless steel suspending M5 eye bolts, electrical connection via pre-wired 2,0 m cable (3 x 1,5 mm²)

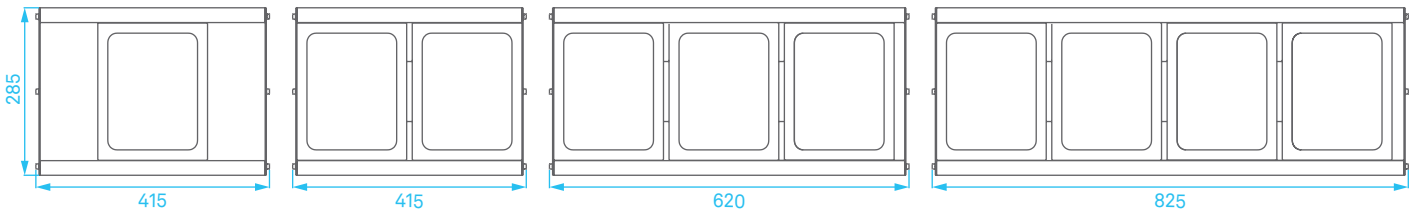
Y wire cable for Probay Ex2 available on request →

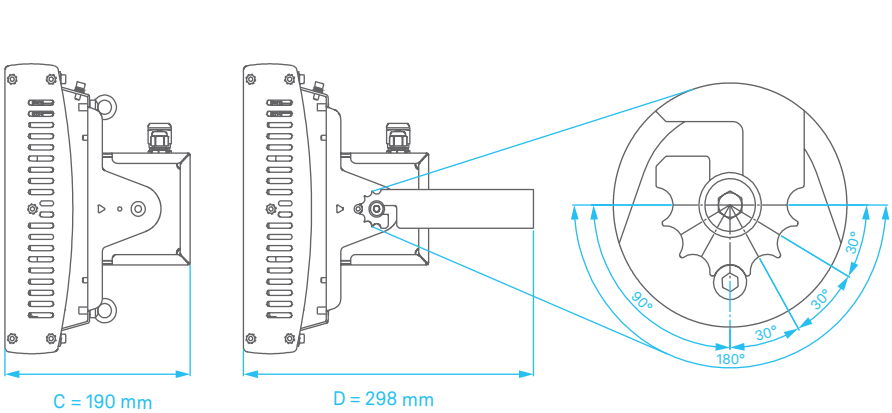


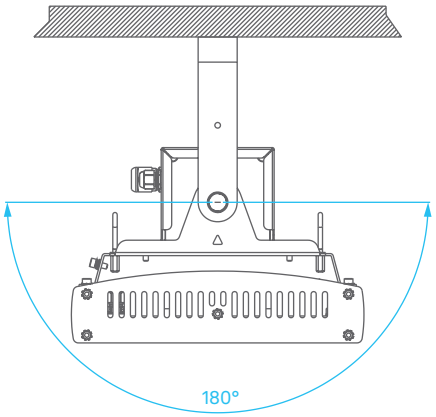
Adjustable bracket available on request →



1 Module **2 Modules** **3 Modules** **4 Modules**

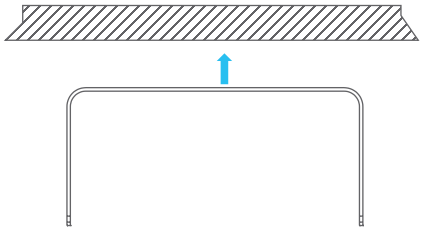




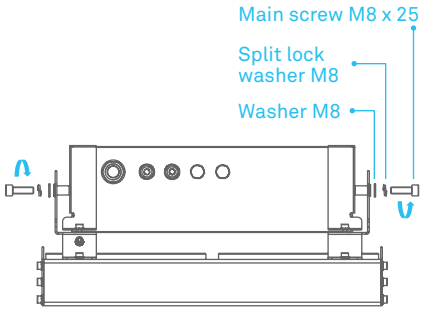


Mounting instructions

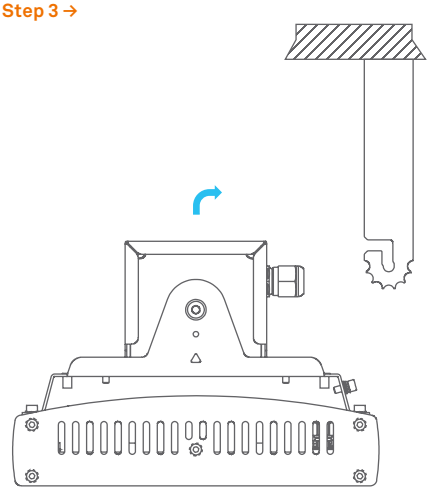
Step 1 →



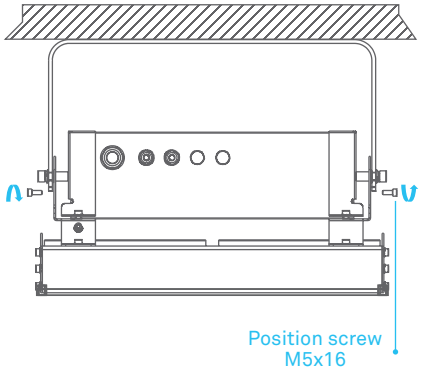
Step 2 →



Step 3 →



Step 4 →



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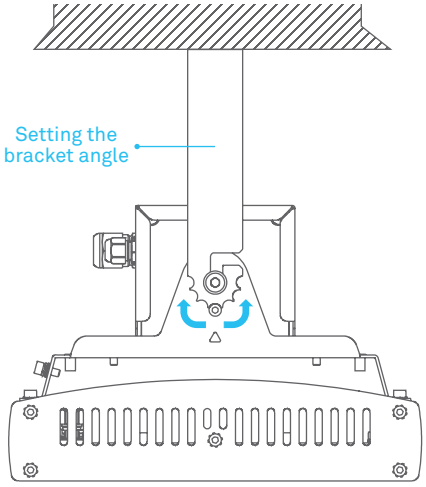

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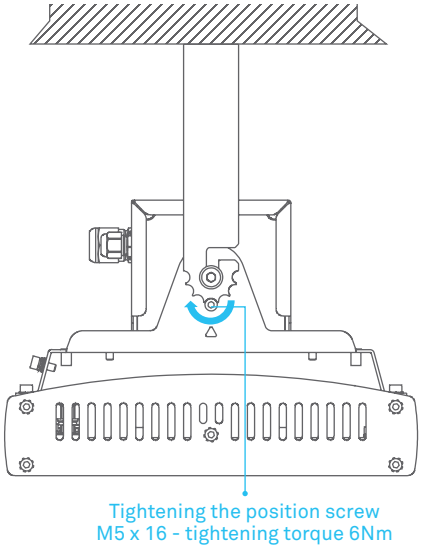
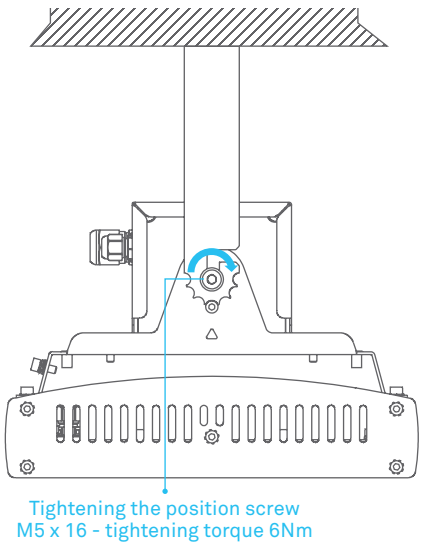
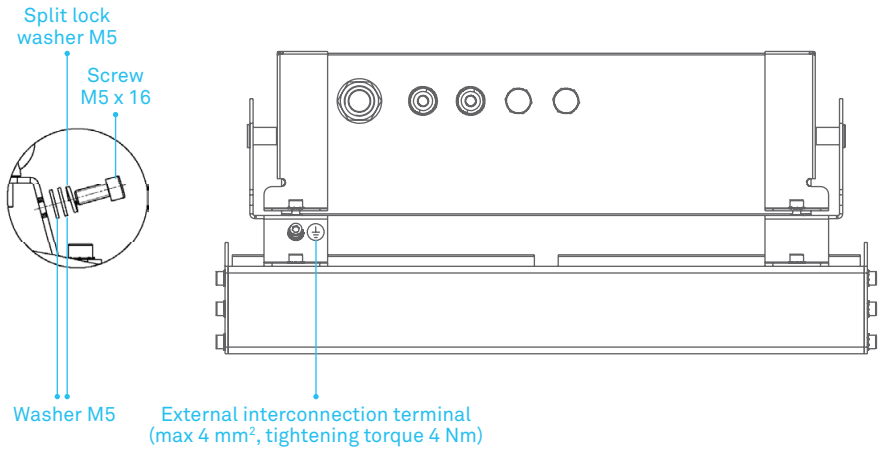


Step 7 →



Position of external interconnectin →



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