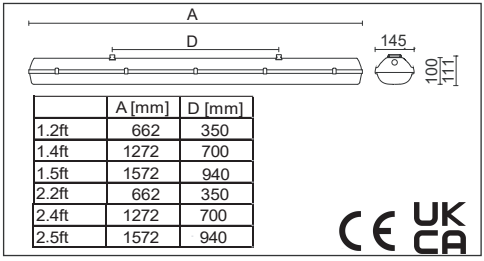
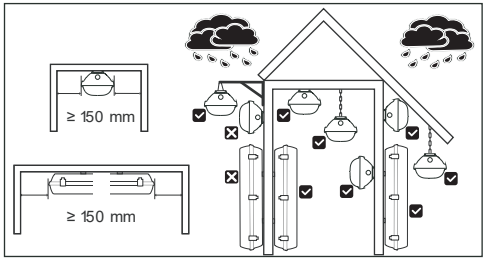
PRIMA LED Ex 2/21

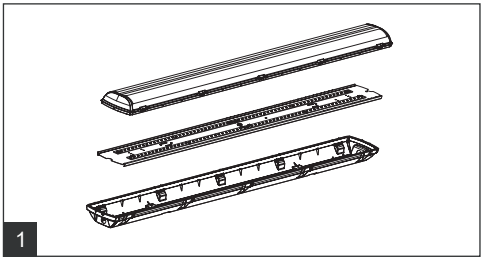
IP66 **220-240V 0/50/60Hz**

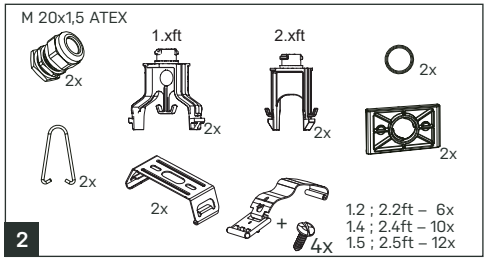


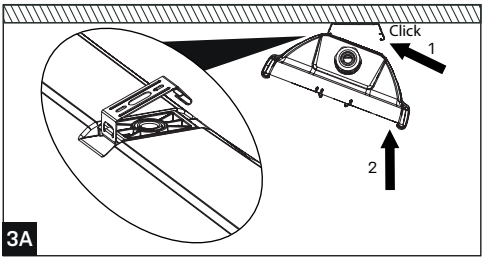
	A [mm]	D [mm]
1.2ft	662	350
1.4ft	1272	700
1.5ft	1572	940
2.2ft	662	350
2.4ft	1272	700
2.5ft	1572	940

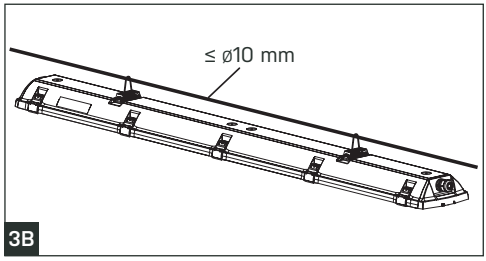
CE UK CA

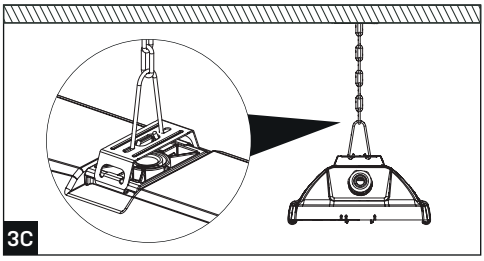


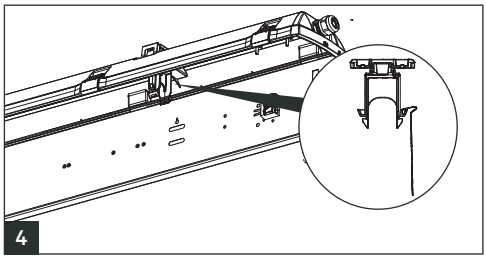


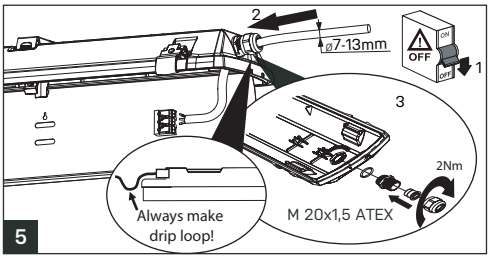


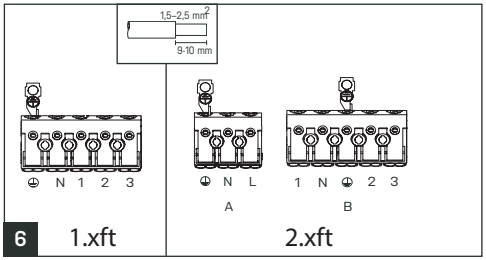








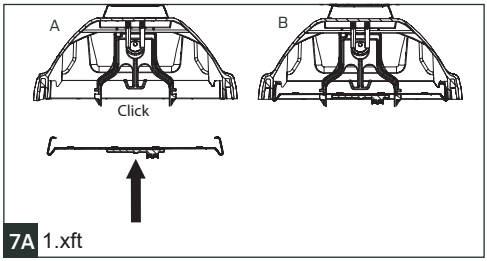




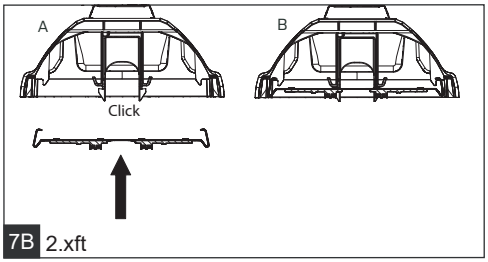
PRIMA LED Ex 2/21

IP66

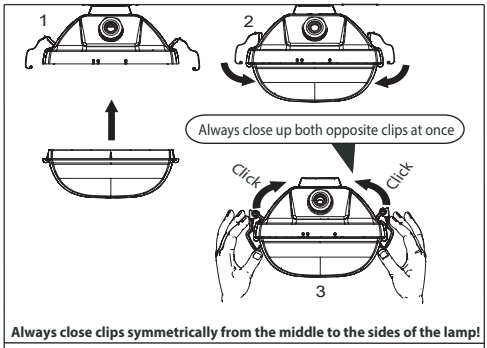
220-240V
0/50/60Hz



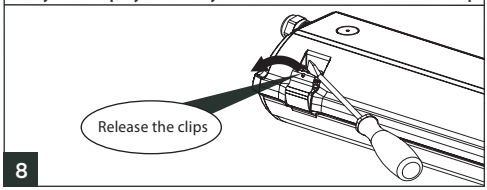
7A 1.xft



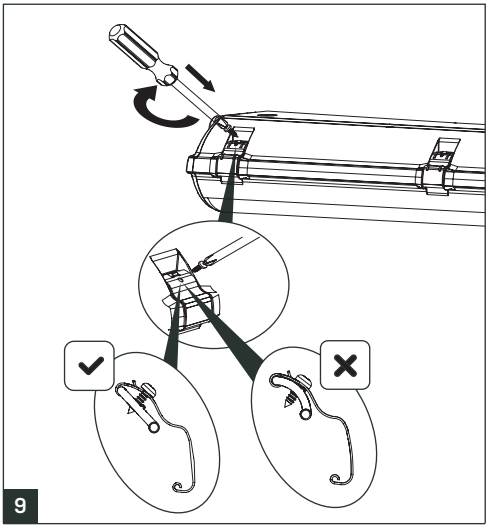
7B 2.xft



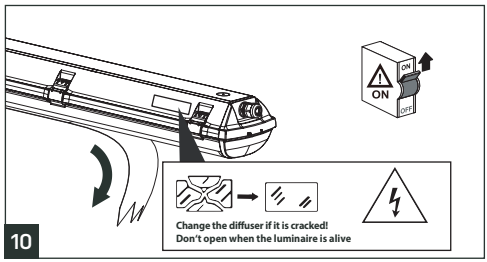
Always close clips symmetrically from the middle to the sides of the lamp!



8



9



10

The light source in this luminaire may be replaced only by the manufacturer or its contractual service technician or similarly qualified person!

Installation can only be carried by an authorized person and according to the mounting instructions. Any other installation in considered to be improper. For right finished mounting is necessary ensure by screws the clips holding the diffuser - shown picture no. 9. For well installation and good luminaire work is necessary ensure a planarity of a mounting surface. Make sure that the luminaire is always disconnected from the power supply before the installation work. Do not use the luminaire if damaged or if damaged the power cable. Only damp microfiber cloth can be used for cleaning. Technical changes are subjected without notice. Do not dispose the luminaire or its parts as household waste, but make a proper recycling.

Technical instructions for installing of PRIMA LED Ex 2/21

For installation and operation in potentially explosive environments, safety instructions as outlined in national laws and standards must be followed.

1. Remove the luminaire from the transport packaging.
2. Loosen the steel clips and disassemble the diffuser.
3. Push the hooks on the spacer holding the luminaire reflector together, and remove the reflector from the luminaire.
4. Assemble the empty housing using one of the methods described in the manual.
5. Pull the connection cable through the M20x1.5 ATEX gland. Tighten the cable gland.
   The connection cable must have an outer diameter of between 7 mm and 13 mm.
   This is crucial for the cable gland to work properly.
6. Connect the connection cable to the free side of the terminal block as follows:
   Ensure that proper wire stripping (9 mm – 10 mm) and proper insertion into the terminal block is carried out.
   The terminal block permits use of wires with a cross-section of 0.5 – 2.5 mm² (AWG 13 to AWG 20). If wiring is continuous, keep the maximum number of luminaires to hand according to Table 2.

Terminal	1F instalation	3F instalation	M3h instalation
L1	Phase conductor	Phase conductor	Phase conductor
L2	-	Phase conductor	-
L3	-	Phase conductor	M3h
N	Neutral conductor	Neutral conductor	Neutral conductor
⏚	Earthing conductor	Earthing conductor	Earthing conductor

7. Put the reflector back into the luminaire.
8. Reassemble the diffuser, close the steel clips and secure them with the corresponding screws.

The manufacturer is not responsible for damage caused by failure to observe these technical instructions!

1. Using luminaires

These luminaires are used in potentially explosive environments: Tab.1

	Description of external influences	Area classification	
		Description	According to standard
Risk of explosion – flammable dust	**BE3N1**	**ZONE 21, 22**	**EN 60 079-14 EN 60 079-10-2**
Risk of explosion – flammable gas and vapour	**BE3N2**	**ZONE 2**	**EN 60 079-10-1 EN 60 079-14**

The luminaires are designed for ambient temperatures ranging from:

Variants: 1.2ft 2200/xxx, 1.4ft 4400/xxx, 1.4ft 6400/xxx, 1.5ft 8000/xxx, 2.2ft 4400/xxx, 2.4ft 8800/xxx, 1.5ft 5500/xxx, 2.5ft 11000/xxx, = **-25°≤Ta≤+55°**
1.2ft 1600/xxx, 1.4ft 3200/xxx, 1.5ft 4000/xxx, 2.2ft 3200/xxx, 2.4ft 6400/xxx, 2.5ft 8000/xxx, = **-25°≤Ta≤+60°**
2.4ft 12800/xxx, 2.5ft 16000/xxx, 2.5ft 20000/xxx, = **-25°≤Ta≤+40°**

Mxh Variants: 1.4ft 3200/xxx, 1.4ft 4400/xxx, 1.5ft 4000/xxx,1.5ft 5500/xxx = **5°≤Ta≤+45°**
1.2ft 1600/xxx, 1.2ft 2200/xxx, 2.4ft 6400/xxx, 2.5ft 8000/xxx = **5°≤Ta≤+45°**
2.2ft 3200/xxx, 2.4ft 8800/xxx, 2.5ft 11000/xxx = **5°≤Ta≤+40°**
2.2ft 4400/xxx = **5°≤Ta≤+35°**

NMxh Variants: 1.2ft = **5°≤Ta≤+50°**

xxx - CRI and colour temperature of LED

Ⓔx II 3G Ex nR IIC T6 Gc

Ⓔx II 2D Ex tb IIIC T70°C Db

Definition of symbols:

Ⓔx	II	3	G	Ex	nR	IIC	T6	Gc
General sign for equipment in potentially explosive atmospheres	Equipment group	Equipment category	Explosive atmosphere gases	Equipment for potentially explosive atmospheres	Symbol of protection type in use: Restricted breathing	Equipment group	Temperature class	Equipment protection level

Ⓔx	II	2	D	Ex	tb	IIIC	T70°C	Db
General sign for equipment in potentially explosive atmospheres	Equipment group	Equipment category	Explosive atmosphere dust	Equipment for potentially explosive atmospheres	Symbol of protection type in use: protection against ignition of dust by a cover	Equipment group	Maximum surface temperature of the device	Equipment protection level

2. Conditions of use and maintainance

Please refer to the standards listed in Table 1 if using luminaires in the environments mentioned above.

– The specific conditions mentioned in the certificates of separately certified components have to be fulfilled.
– The luminaire must not be opened if the terminal block is voltage-carrying. Change the diffuser if it is cracked.
– LED components contained in this luminaire shall only be replaced by the manufacturer or his service agent or a similar qualified person and only with original spare parts.
– If the gasket is damaged it is necessary to replace it.
– Replacement of parts affecting explosion protection is prohibited.
– Disconnecting and replacing of the battery in the luminaire is only possible out of the environment with explosion hazard. (Spare battery order number 1720121199, LiFePO4 battery 3,2V, 4,5A with protections)
– The opening in the unused cable gland must be sealed with an ATEX plug.
– Potential electrostatic charging hazard. In potentially explosive environments, the luminaire may only be cleaned with a damp cloth and the person carrying out the cleaning must be earthed.
– The recommended fuse rating for continuously wired luminaires is type B; 10 A or 16 A.
– The luminaire PRIMA LED Ex is approved for single and triple phase continuous wiring. Maximum allowed number of luminaires connected on one phase is listed in the table below.

Tab.2

Luminaire type	Automatic cut-out 10A	Automatic cut-out 16A
1.2ft	18	30
1.4ft	9	15
1.5ft	9	15
2.2ft	9	15
2.4ft (12.800lm)	9 (4)	15 (7)
2.5ft (16.000lm and 20.000lm)	9 (4)	15 (7)

LIGHT FITTING WITH EMERGENCY MODULE

In the light fitting is used the emergency module SelfTest variant:
LAMPEC EMCU TS 105V/3W/3h, EMCU TS 220V/3W/3h
TCI ELED-A 3W 20-105V 3H BI, ELED-A 3W 100-220V 3H BI

Or DALI variants:
LAMPEC EMCU TDS 105V/3W/3h, EMCU TDS 220V/3W/3h
TCI ELED-DALI 3W 20-105V 3H BI, ELED-DALI 3W 100-220V 3H BI

Or a basic emergency module without self-test:
TCI ELED 3W 20-105V 3H BI, ELED 3W 100-220V 3H BI

Technical data of the emergency module:

	220 - 240 V AC
Mains frequency:	50 / 60 Hz
Power output of emergency modules:	3 W
Ambient temperature (ta):	5 °C - +50 °C
Max. casing temperature of the emergency module (tc):	+65 °C
Maintenance-free high-temperature cells:	$LiFePO_4$, cell size 18650
Accumulator voltage	3.2 V
Accumulator capacity:	4.5 Ah
Initial battery charge time:	24 h
Voltage output range:	20-105 V or 100-220 V
Max. power input:	5 W
Initial charge current:	230 mA
Upkeep current:	20 mA
LED current in emergency mode:	30 - 150 mA
Cross-sections of connecting wires:	0.5 – 1.5 mm^2

Characteristic of the emergency module:

Automatic switchover between network and emergency supply of the light fitting.
LED signaling of the condition of the module.
Protection from complete discharge of the accumulator.
Automatic initial battery regeneration.
Small dimensions and simple mounting.

Mounting and operation:

The accumulator must be disconnected from the emergency module during the storage. The voltage of one cell must not drop below 2.0V. The replacement of the battery is necessary if the light fitting does not meet the nominal service life – after 4 years at the most. Unit activates new batteries, 3 full charging-discharging are performed to make sure batteries achieve their rated capacity. The function of the emergency module has to be checked every month – if the light fitting does not work check the light source and the accumulator. Do the function test by disconnecting the mains. To prevent the discharge of the accumulator connect the accumulator to the module only when the light fittings is connected to the mains.

Advice:

The manufacturer is not responsible for the defects caused by improper handling of the light fitting.
The light fitting must be connected to electric grid by a professional technician in accordance with valid standards and regulations.
Do not check the duration test sooner than 36 hours after connecting the light fitting to the electric grid.
The emergency module only works correctly when the accumulator is fully charged.
Maximum current in through-wiring is 10 A for cross-section 1,5 mm^2 and 16 A for 2,5 mm^2.
Luminaire may not be switched from mains the first 168 hours after inicialization!!
Luminaires are not suitable for areas with frequent disconnection of the mains.
In such areas battery life and safety can not be guaranteed.

Self testing in unit variants with self-test:
Functional test: Functional tests are carried out automatically once in 8-8.25 day. Test duration 2 minutes.
Duration test: A full duration test is carried out every ¼ of a year to check the capacity of the batteries.

In case of problems or doubts, contact your supplier!

LED indicator:

LED color	*Signal*	*Status*		
red	no signal	emergency mode	Self-test DALI	Basic Without self-test
	Intermittent flashing *	luminaire failure		
	fast flashing*	battery failure		
green	no signal	emergency mode		
	shining	system OK (AC mode)		
	Intermittent flashing	battery charging		

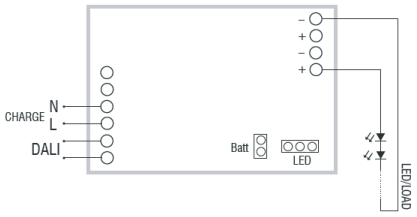
* intermittent flashing (green - 8 s on - 1 s off) (red 4x blink 1x pause)

Options table of EM:

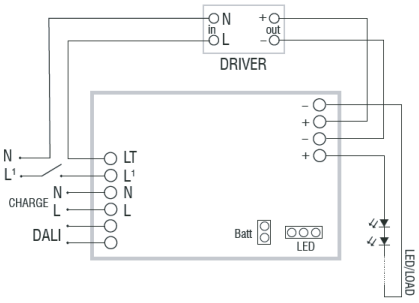
Type	*Duration time*	*Accumulator*	*Power output*	*Luminous flux in emergency mode*
EMCU TS/TDS 105V/3W/3h	3 h	LiFePO4 3.2V 4.5Ah - 14.4Wh	3 W	500 lm
EMCU TS/TDS 220V/3W/3h	3 h	LiFePO4 3.2V 4.5Ah - 14.4Wh	3 W	500 lm
ELED/ELED-A/DALI 20-105V/3W/3h	3 h	LiFePO4 3.2V 4.5Ah - 14.4Wh	3 W	500 lm
ELED/ELED-A/DALI 100-200V/3W/3h	3 h	LiFePO4 3.2V 4.5Ah - 14.4Wh	3 W	500 lm

Wiring diagram of the emergency module:

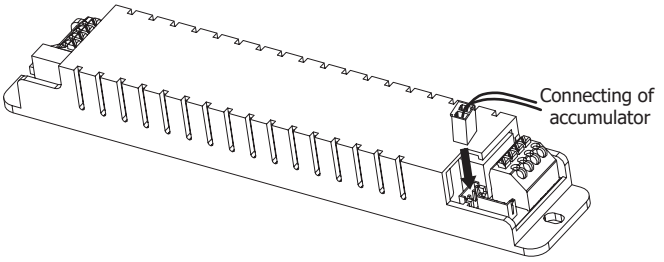
!!! The light fitting and the emergency module must be supplied from the same phase!!!



Non-maintained (emergency only) diagram



Maintained with external electronic driver diagram



Spare battery
1720121199
LiFePO4 battery
3,2V, 4,5A
with protections

Table for customer's records of the course of tests and service life of emergency module of light fitting.

Type:		Date of installation:				Place of installation:			
month	test	1st YEAR		2nd YEAR		3rd YEAR		4th YEAR	
		date	signature	date	signature	date	signature	date	signature
1	FUNCTION								
2	FUNCTION								
3	FUNCTION								
4	FUNCTION								
5	FUNCTION								
6	FUNCTION								
7	FUNCTION								
8	FUNCTION								
9	FUNCTION								
10	FUNCTION								
11	FUNCTION								
12	FUNCTION								

month	test	5th YEAR		6th YEAR		7th YEAR		8th YEAR	
		date	signature	date	signature	date	signature	date	signature
1	FUNCTION								
2	FUNCTION								
3	FUNCTION								
4	FUNCTION								
5	FUNCTION								
6	FUNCTION								
7	FUNCTION								
8	FUNCTION								
9	FUNCTION								
10	FUNCTION								
11	FUNCTION								
12	FUNCTION								

EU DECLARATION OF CONFORMITY / UKCA

No.:22/6/26

Product model/product: Industrial LED Ex luminaire

Ex II 3G Ex nR IIC T6 Gc
Ex II 2D Ex tb IIIC T70°C Db

Name and address of the manufacturer: **TREVOS, a.s.**
Nová Ves 34, 511 01 Turnov, Czech Republic

This declaration of conformity is issued under the sole responsibility of the manufacturer.

Object of the declaration: **PRIMA LED Ex 2/21**

Modification: 1F, 3F, M3h, M3hAt, M3hDA, DALI, NM
Variants: 1600/xxx, 2200/xxx, 3200/xxx, 4000/xxx, 4400/xxx, 5500/xxx,6400/xxx, 8000/xxx, 8800/xxx, 11000/xxx, 12800/xxx, 16000/xxx, 20000/xxx
Material: PCc

xxx - Colour temperature of LED

The subject matter of the declaration described above is in accordance with the relevant harmonisation legislation of the Union and the United Kingdom.

UK SI 2016 No. 1091	2014/30/EU including amendments
UK SI 2016 No. 1107	2014/34/EU including amendments
UK SI 2016 No. 1101	2014/35/EU including amendments
UK SI 2012 No. 3032	2011/65/EU including amendments

References to the relevant harmonised standards used or references to the other technical specifications in relation to which conformity is declared:

European standards including amendments	
EN IEC 60079-0:2018	EN IEC 60079-0:2018
EN IEC 60079-15:2019	EN IEC 60079-15:2019
EN IEC 60079-31:2024	EN IEC 60079-31:2024
EN IEC 60598-1:2021	EN IEC 60598-1:2021
EN IEC 60598-2-1:2021	EN IEC 60598-2-1:2021
EN IEC 60598-2-22:2022	EN IEC 60598-2-22:2022
EN IEC 55015:2019	EN IEC 55015:2019
EN IEC 61000-3-2:2019	EN IEC 61000-3-2:2019
EN 61000-3-3:2013	EN 61000-3-3:2013
EN IEC 61547:2023	EN IEC 61547:2023
EN 62493:2015	EN 62493:2015
UK SI 2021 No.1095	

Complementary information:
ATEX certificate TÜV CY25 ATEX 0207317 X
TÜV CYPRUS Ltd, 2 Papaflessa Str., 2235 Latsia, Nicosia.

Place of issue: Turnov

Manufacturer representative:
David Lazar

Date of issue: 30.06.2026

Position: certification

TREVOS, a. s.
Nová Ves 34
511 01 Turnov
IČO: 07829965