

PLFS-N 100 LED



Upute za uporabu User manual



UPOZORENJE

Upute za uporabu sadrže osnovne informacije o proizvodu. Montaža, instaliranje, uporaba i održavanje trebaju biti izvedeni prema ovoj Uputi kako bi bio osiguran siguran rad unutar nazivnih karakteristika. Ovu Uputu nadopunjuju nacionalni Pravilnici i norme. Odgovorna osoba korisnika je dužna osigurati njihovo provođenje. Neprovođenje može umanjiti protueksplozijsku zaštitu uređaja i dovesti u opasnost ljude, imovinu i okoliš. Svako neispravno i nedozvoljeno postupanje kao i nepoštivanje odredbi ove Upute isključuje svaku odgovornost proizvođača.

Prije ugradnje/puštanja u pogon:

- Pažljivo pročitati cijelu Uputu za uporabu,
- Izvršiti odgovarajuću obuku odgovornog osoblja,
- Provjeriti da je sadržaj ove Upute u potpunosti razumljiv odgovornim osobama,
- Uvjeriti se da su primijenjeni svi zahtjevi nacionalnih Pravilnika i posebne sigurnosne mjere ukoliko postoje.

U slučaju nejasnoća:

- Kontaktirati proizvođača.

Tijekom pogona:

- Osigurati da ove Upute za uporabu i druge radne upute korisnika budu vidljivo istaknute i dostupne odgovornom osoblju cijelo vrijeme,
- Provjeravati provođenje ove Upute i svih drugih sigurnosnih uputa korisnika.



WARNING

The user manual contains basic information about the product. Mounting, installation, usage and maintenance should be carried out under this user manual to provide and ensure safe operation within the nominal characteristics. National Regulation and Standards complement this user manual. The responsible person shall ensure their implementation. Failure to implement this user manual can reduce explosion protection and endanger people, property and the environment. Any improper and illegal actions as well as non-compliance with the provisions of this user manual excludes all responsibility by manufacturer side.

Before installation/commissioning:

- Carefully read all instructions,
- Execute proper training of responsible personnel,
- Check that the contents of these instructions is fully understandable by the responsible personnel,
- Make sure that all the requirements and national Regulations as well as all special security measures are applied.

In lack of understanding:

- Contact the manufacturer.

During operation:

- Ensure that this user manual and other work instructions are available to the responsible staff at all times,
- Check the implementation of these instructions and all other safety user's instructions.

SADRŽAJ:

1. Namjena.....	2
2. Sukladnost proizvoda.....	2
3. Tehnički podaci.....	2
4. Tipna oznaka.....	3
5. Montaža.....	4
6. Dimenzije.....	4
7. Pregled, održavanje, popravak, obnavljanje.....	5
8. Rezervni dijelovi	5
9. Odgovornost i ovlaštenja.....	6
10. Skladištenje i transport.....	6
11. Jamstvo proizvođača.....	6
12. Označavanje.....	7

1. NAMJENA

Protueksplozijski zaštićena ovjesna svjetiljka PLFS-N 100 LED namijenjena je za upotrebu u industrijskim prostorima na mjestima s potencijalno eksplozivnom atmosferom plinova, para i prašina u zonama opasnosti 1, 2, 21, 22 sukladno normi EN 60079-10-1 i EN 60079-10-2.

2. SUKLADNOST PROIZVODA

Konstrukcija svjetiljke sukladna je s normama EN 60598-1 i svim povezanim normama.

Proizvod je sukladan Pravilniku o opremi i zaštitnim sustavima namijenjenim za uporabu u potencijalno eksplozivnim atmosferama, NN br. 34/16.

Proizvod je sukladan ATEX Direktivi 2014/34/EU i normama:

- EN IEC 60079-0:2018,
- EN 60079-1:2014,
- EN IEC 60079-7:2015+A1:2018,
- EN 60079-28:2015,
- EN 60079-31:2014.

Proizvod je razvijen, proizveden i ispitan prema postojećem stanju tehnike sukladno normama EN ISO 9001, EN ISO 80079-34 i EN ISO 14001.

Proizvod je sukladan LVD Direktivi 2014/35/EU.

Proizvod je sukladan RoHS Direktivi 2011/65/EU.

Proizvod je sukladan EMC Direktivi 2014/30/EU.

3. TEHNIČKI PODACI

Certifikat	FIDI 19 ATEX 0031
Oznaka kategorije i protueksplozijske zaštite uređaja:	 II 2G Ex db eb op is IIC T6 Gb II 2D Ex tb op is IIIC T85°C Db
Temperatura okoline:	-40°C / -20°C ≤ Ta ≤ +50°C
Mehanička zaštita:	IP 66
Otpornost na udar:	IK 08
Klasa zaštite:	I (PE - zaštitno uzemljenje)
Nazivni napon Un:	110 – 230 V AC, 127-230V DC
Radni napon:	90 - 305 V AC / 127 - 431 V DC
Nazivna snaga Pn:	60 W / 80 W / 100 W
Faktor snage:	>0,95
LED izvor:	CLU058-1825C4-403M2M2-F1, Citizen LTD.

CONTENTS:

1. Purpose.....	2
2. Product conformity.....	2
3. Technical data.....	2
4. Types	3
5. Mounting.....	4
6. Dimensions.....	4
7. Inspection, maintenance, repair and overhaul.....	5
8. Spare parts.....	5
9. Responsibility and authorization.....	6
10. Storage and transport.....	6
11. Manufacturer's warranty.....	6
12. Marking.....	7

1. PURPOSE

Explosion protected pendant light fitting type PLFS-N 100 LED, is intended for general lighting in industrial areas with potentially explosive atmosphere Zones 1, 2, 21, 22 in accordance with EN 60079-10-1 and EN 60079-10-2. The quality of the materials ensures compliance with standard functionality in standard industrial atmosphere.

2. PRODUCT CONFORMITY

The construction of the light fitting complies with EN 60598-1 and all related standards.

The product complies with the ATEX Directive 2014/34/EU and the standards:

- EN IEC 60079-0:2018,
- EN 60079-1:2014,
- EN IEC 60079-7:2015+A1:2018,
- EN 60079-28:2015,
- EN 60079-31:2014.

The product has been developed, manufactured and tested according to the existing state of technique accordance with the standards EN ISO 9001 and EN ISO 80079-34 and EN ISO 14001.

The product is in compliance with the LVD Directive 2014/35 EU.

The product is in compliance with the RoHS Directive 2011/65 EU.

The product is in compliance with EMC Directive 2014/30/EU.

3. TECHNICAL DATA

Certificate:	FIDI 19 ATEX 0031
Category and explosion protection:	 II 2G Ex db eb op is IIC T6 Gb II 2D Ex tb op is IIIC T85°C Db
Ambient temperature:	-40°C / -20°C ≤ Ta ≤ +50°C
Mechanical protection:	IP66
Resistance to shock:	IK 08
Class of protection:	I (PE - protective earthing)
Rated voltage Un:	110 – 230 V AC, 127-230V DC
Service voltage:	90 - 305 V AC / 127 - 431 V DC
Rated power Pn:	60 W / 80 W / 100 W
Power factor:	>0,95
LED light source:	CLU058-1825C4-403M2M2-F1, Citizen LTD.

Maksimalan broj svjetiljaka (kom.) po jednom automatskom instalacijskom prekidaču:	Automatski instalacijski prekidač (PLFS-N 100 LED-2,3,4)			
	1 p B 10A	1 p C 10A	1 p B 16A	1 p C 16A
	4	7	8	14
OVP zaštita:	IEC 61000-4-5, EN 62031 3kV/1min - udarni prenapon 8/20μs 6kV/3kA			
LED driver:	LED driver XLG-100-H-A MEANWELL Co.Ltd.			
OCP zaštita:	2 A F; 2,5 A F; 3,15 A F			
OTP zaštita:	T _{max} =80°C, povratno, IEC 60730-1			
Svjetlosni tok LED Modula:	8460 lm pri Tamb = 25°C za 60W 11280 lm pri Tamb = 25°C za 80W 14100 lm pri Tamb = 25°C za 100W			
Svjetlosni tok svjetiljke:	7615 lm pri Tamb = 25°C za 60W 10150 lm pri Tamb = 25°C za 80W 12690 lm pri Tamb = 25°C za 100W			
Efikasnost LED Modula:	156 lm/W			
Efikasnost svjetiljke:	140 lm/W			
Temperatura boje svjetlosti:	4000 K			
Indeks uzvrata boje (CRI):	>80			
Očekivana životna dob LED-a:	50 000 radnih sati pri tamb=40°C – L90/B10			
Priključne stezaljke:	stezaljke za spajanje faznog, neutralnog i zaštitnog vodiča L1, L2, L3, N, PE; max 4 mm ² sol (r), sol (s), f, Moment pritezanja stezaljke 1,2 Nm Proizvođač: Connectwell Pvt. doo, Indija, Certifikat: SIRA 16 ATEX 3170U Oznaka kategorije i protueksplozijske zaštite uređaja: II 2G Ex eb IIC Gb ili Ex ib IIC Gb Tip adaptera ADP23 / 1 [L,N,PE] Oznaka kategorije i protueksplozijske zaštite uređaja: II 2G Ex db eb IIC T6 Gb ili II 2D Ex tb IIIC T85 ° C Db Certifikat tipa: FIDI 19 ATEX 0014X Proizvođač: TEPEX d.o.o, Hrvatska			
Vanjske stezaljke za uzemljenje:	stezaljke za vanjsko uzemljenje i izjednačavanje potencijala, max 2 x 6 mm ² sol(s), f			
Vrsta uvoda:	prema tablici izvedbi			
Ex e uvodnica i čep:	Jedna II 2G / II 2D Ex eb / Ex tb kabela uvodnica M25x1,5 i jedan II 2G / II 2D Ex eb / Ex tb čep M25x1,5 sukladno EN 50262			
Momenti pritezanja:	Pritisna matica Ex eb / tb uvodnice: 2,5 Nm Tijelo Ex db uvodnice i čepa: 3,5 Nm			
Masa:	cca 10,5 kg			

Maximum number of lamps (pieces) per one automatic circuit breaker:	Automatic circuit breaker (PLFS-N 100 LED-2,3,4)			
	1 p B 10A	1 p C 10A	1 p B 16A	1 p C 16A
	4	7	8	14
OVP protection:	IEC 61000-4-5, EN 62031 3kV/1min impulse overvoltage 8/20μs 6kV/3kA			
LED driver:	LED driver XLG-100-H-A MEANWELL Co.Ltd.			
OCP protection:	2 A F; 2,5 A F; 3,15 A F			
OTP protection:	T _{max} =80°C, resettable, IEC 60730-1			
Luminous flux of the LED Module:	8460 lm at Tamb = 25°C for 60W 11280 lm at Tamb = 25°C for 80W 14100 lm at Tamb = 25°C for 100W			
Luminous flux light fitting:	7615 lm at Tamb = 25°C for 60W 10150 lm at Tamb = 25°C for 80W 12690 lm at Tamb = 25°C for 100W			
LED Module efficiency:	156 lm/W			
Light fitting efficiency:	140 lm/W			
Light colour:	4000 K			
Refractive index(CRI):	>80			
Estimated service life:	50 000 working hours Tamb = 40°C L90/B10			
Connection terminal:	terminals for phase, neutral and earthing conductors L1, L2, L3, N, PE; max 4 mm ² sol(r), sol(s), f, torque screw for terminals 1,2 Nm Manufacturer: Connectwell Pvt. Ltd., India, Certificate: SIRA 16 ATEX 3170U Category and explosion protection: II 2G Ex eb IIC Gb or Ex ib IIC Gb Adapter type ADP23/1 [L,N,PE] Category and explosion protection: II 2G Ex db eb IIC T6 Gb or II 2D Ex tb IIIC T85°C Db Type certificate:FIDI 19 ATEX 0014X Manufacturer: TEPEX d.o.o, Croatia			
Connection terminal for grounding:	terminal for external grounding, equipotential bounding, max 2 x 6 mm ² sol(s), f			
Cable entries:	according to type table			
Ex e cable gland and plug:	One II 2G / II 2D Ex eb / Ex tb cable gland M25x1,5 and one II 2G / II 2D Ex eb / Ex tb plug M25x1,5 in accordance with EN 50262			
Tightening torques values:	Locknut of the Ex eb / tb cable glands: 2,5 Nm Body of the Ex db / tb glands and plug: 3,5 Nm			
Weight:	Cca 10,5 kg			

Navojni raspori (Prema EN 60079-1/2014, točka 5.3):

M 195x 2 - 6H/6g, srednja tolerancija prema ISO 965-1/98, navoj
DIN 13 T.24/83, 8 punih navoja

M 20 x 1,5 - 6H/6g, srednja tolerancija prema ISO 965-1/98, navoj
ISO 965-3/98, 9 punih navoja

Kombinirani raspor (Prema EN 60079-1/2014, točka 5.2):

$L=c+d=(6,4\pm0,1)+(22\pm0,1)=28,4\pm0,2$ mm

Zračnost $i_{max}=0,2$ mm ($f<0,5$ mm)

Threaded joints (According to EN 60079-1/2014, clause 5.3):

M 195x 2 - 6H/6g, medium tolerance according to ISO 965-1/98,
thread DIN 13 T.24/83, 9 full threads

M 20 x 1,5 - 6H/6g, medium tolerance according to ISO 965-1/98,
thread ISO 965-3/98, 10 full threads

Spigot joint (According to EN 60079-1/2014, clause 5.2):

$L=c+d=(6,4\pm0,1)+(22\pm0,1)=28,4\pm0,2$ mm

Gap $i_{max}=0,2$ mm ($f<0,5$ mm)

4. TIPNA OZNAKA

PLFS-N 100 LED - . / .

Prvi broj = Nazivna snaga

Drugi broj = Vrsta uvoda

4. TYPES

PLFS-N 100 LED - . / .

First number = Rated power

Second number = Type of entries

NAZIVNA SNAGA:	TEMPERATURA OKOLINE:	UVODI:
2. = 60 W	-40°C≤Tamb≤+50°C	1. = Priključna komora [3L+N+PE] i prolazno ožičenje + ISO25 uvodnica i čep za $t_{amb}\geq-40^{\circ}\text{C}$
	-20°C≤Tamb≤+50°C	2. = ADP 23/1
		3. = Priključna komora [3L+N+PE] i prolazno ožičenje + ISO25 uvodnica i čep za $t_{amb}\geq-20^{\circ}\text{C}$
3. = 80 W	-40°C≤Tamb≤+50°C	1. = Priključna komora [3L+N+PE] i prolazno ožičenje + ISO25 uvodnica i čep za $t_{amb}\geq-40^{\circ}\text{C}$
	-20°C≤Tamb≤+50°C	2. = ADP 23/1
		3. = Priključna komora [3L+N+PE] i prolazno ožičenje + ISO25 uvodnica i čep za $t_{amb}\geq-20^{\circ}\text{C}$
4. = 100 W	-40°C≤Tamb≤+50°C	1. = Priključna komora [3L+N+PE] i prolazno ožičenje + ISO25 uvodnica i čep za $t_{amb}\geq-40^{\circ}\text{C}$
	-20°C≤Tamb≤+50°C	2. = ADP 23/1
		3. = Priključna komora [3L+N+PE] i prolazno ožičenje + ISO25 uvodnica i čep za $t_{amb}\geq-20^{\circ}\text{C}$
RATED POWER:	AMBIANT TEMPERATURE:	ENTRIES:
2. = 60 W	-40°C≤Tamb≤+50°C	1. = Connection box [3L+N+PE] and true wiring + ISO25 cable gland and plug for $t_{amb}\geq-40^{\circ}\text{C}$
	-20°C≤Tamb≤+50°C	2. = ADP 23/1
		3. = Connection box [3L+N+PE] and true wiring + ISO25 cable gland and plug for $t_{amb}\geq-20^{\circ}\text{C}$
3. = 80 W	-40°C≤Tamb≤+50°C	1. = Connection box [3L+N+PE] and true wiring + ISO25 cable gland and plug for $t_{amb}\geq-40^{\circ}\text{C}$
	-20°C≤Tamb≤+50°C	2. = ADP 23/1
		3. = Connection box [3L+N+PE] and true wiring + ISO25 cable gland and plug for $t_{amb}\geq-20^{\circ}\text{C}$
4. = 100 W	-40°C≤Tamb≤+50°C	1. = Connection box [3L+N+PE] and true wiring + ISO25 cable gland and plug for $t_{amb}\geq-40^{\circ}\text{C}$
	-20°C≤Tamb≤+50°C	2. = ADP 23/1
		3. = Connection box [3L+N+PE] and true wiring + ISO25 cable gland and plug for $t_{amb}\geq-20^{\circ}\text{C}$

5. MONTAŽA

Montaža i instaliranje svjetiljke se izvodi prema podacima na natpisnim pločicama na svjetiljci, ovim i dodatnim uputama proizvođača, nacionalnim Propisima i Pravilnicima, kao i prema općenito priznatim pravilima tehnike. Samo uz taj uvjet osigurana je tipnim certifikatom potvrđena protueksplozijska zaštita svjetiljke. Kvaliteta upotrijebljenih materijala jamči funkcionalnost sukladnu normi, u «normalnoj» industrijskoj atmosferi. Za posebne uvjete pogona molimo kontaktirati proizvođača. Montaža svjetiljke na podlogu vrši se preko nosača vijčanim priborom M6.

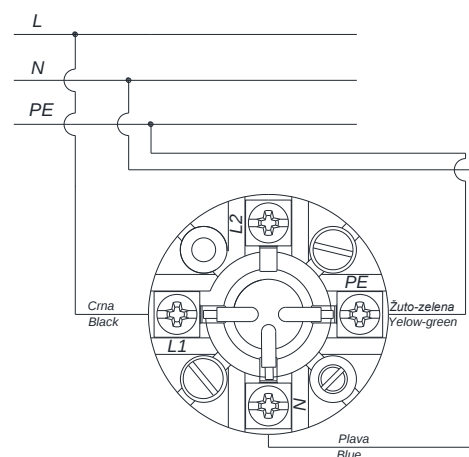
Otvaranje priključne komore vrši se odvrtanjem četiri vijka poklopca. Priključni kabel se uvodi u kućište kroz predviđene uvodnice. Pri tome treba provjeriti da su kabeli čisti i neoštećeni. Posebnu pažnju treba posvetiti odabiru unutarnjeg brtvenoga prstena uvodnice prema vanjskom promjeru kabela. Pritisnu maticu uvodnice i tijelo uvodnice treba pritegnuti nazivnim momentom. Neiskorišteni uvod, na isti način, obavezno treba zatvoriti Ex d/e čepom. Električno povezivanje izvodi se povezivanjem kabela za napajanje (L, N, PE) na priključnim stezaljkama i priključcima za unutarnje uzemljenje. Zatvaranje kućišta se izvodi na opisani način, suprotnim redoslijedom radnji.

5. INSTALATION

Installation and putting into operation of the light fitting is performed according to the technical and certification data on technical data plate on the light fitting, these and additional user manuals of the manufacturer, national Regulations and Regulations, as well as generally accepted rules of technology and installation. Only with this condition is the type-certified explosion protection of the lamp ensured.

The quality of the materials used guarantees functionality in accordance with the standard, in a "normal" industrial atmosphere. For special operating conditions, please contact the manufacturer. The light fitting is mounted on the wall with steel bracket and M6 screw accessories.

The connection chamber is opened by unscrewing the four cover screws. The connection cable is introduced into the housing through the provided cable glands. Make sure that the cables are clean and undamaged. Particular attention should be paid to the selection of the inner sealing ring of the cable gland according to the outer diameter of the cable. The locknut must be tightened to the rated torque. Unused cable entry must be closed with an Ex d / e plug. Electrical connection is performed by connecting the power cable (L, N, PE) to the connection terminals and internal earthing connections. Closing the housing is performed in the described manner, in the opposite order of actions.



6. DIMENSIONS



7. PREGLED, ODRŽAVANJE, POPRAVAK I OBNAVLJANJE

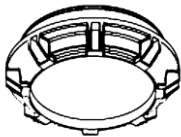
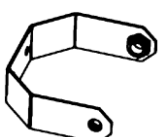
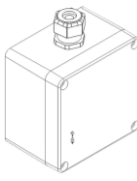
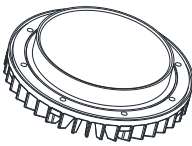
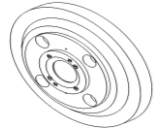
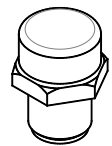
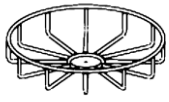
Potrebno je obavljati preglede i održavati sve dijelove uređaja o kojima ovisi protueksplozijska zaštita sukladno normi EN 60079-17, općim i posebnim uputama proizvođača i Pravilnicima korisnika, a naročito:

- da su kućište, svi dijelovi kućišta, zaštitno staklo i brtve bez puknuća i oštećenja,
- da je kućište potpuno zatvoreno sklopom zaštitnog stakla,
- da su uvodnica, čep, vijak stezaljke za uzemljenje pritegnuti nazivnim momentom.

Popravak, obnavljanje ili pregradnju kućišta obavlja proizvođač ili od proizvođača ovlaštena pravna osoba, originalnim dijelovima prema proizvodnoj dokumentaciji, a sve sukladno normi EN 60079-19.

Ukoliko popravak i/ili obnavljanje i/ili pregradnju vrši neovlaštena osoba, prestaje svaka odgovornost proizvođača za proizvod, a izjava sukladnosti proizvođača postaje nevažeća.

8. REZERVNI DIJELOVI

Spare parts/ Accessories Rezervni djelovi/ pribor	Description Opis	Code Kod	Spare parts/ Accessories Rezervni djelovi/ pribor	Description Opis	Code Kod
	PLFS-N 100 LED The glass protective framework, set PLFS-N 100 LED Sklop zaštitnog stakla	PLFS-N 100 LED 10-110		PLFS-N 100 LED bracket for wall mounting, Set PLFS-N 100 LED nosač za zidnu montažu, set	PLFS 50-4 20-120
	Adapter ADP 23/1	ADP 23/1		Gasket PLFS-N Brtva PLFS-N	PLFS-N 100 LED 10-120
	Ex db/eb tb 4F metal cable gland ISO25 Ex db/eb tb 4F metalna kabelska uvodnica ISO25	PLFS-N 100 LED 20-110		Connection chamber, set Priključna komora, set	PLFS-N 100 LED 10-130
	Ex-eb cable gland ISO25, set Ex-eb kabelska uvodnica ISO25, set	PLFS-N 100 LED 30-110		LED Driver assembly Sklop LED drivera	PLFS-N 100 LED 10-140
	Ex-eb plug ISO25, set Ex-eb čep ISO25, set	SPC 25		LED Carrier assembly Sklop nosača LED izvora	PLFS-N 100 LED 10-150
	Ex-db Breathing plug ISO20, set Ex-db disajuci čep ISO20, set	BP 01		PLFS 50 LED Zaštitna rešetka / Protection grid	PLFS 50 LED 20-130

7. INSPECTION, MAINTENANCE, REPAIR AND OVERHAUL

Inspections are carried out in accordance with IEC 60079-17, general and special conditions of manufacturer and users Regulations and includes supervision of parts on which the explosion protection depends, especially:

- that the housing, all part of housing, protective glass and gasket are without rupture and damage,
- that the housing is completely closed by a protective glass,
- that the cable gland, plug, connecting terminals are tightened with nominal torque.

All the repairs must be performed by the manufacturer or the manufacturer's authorized personal using the original parts according to the product documentation, all in accordance with EN 60079-19.

If repair or any other procedure are performed on the product by unauthorized person, all producer responsibility for the product and the warranty and the manufacturer's Declaration of conformity becomes invalid.

8. SPARE PARTS

9. ODGOVORNOSTI I OVLAŠTENJA

Ova Uputa predstavlja najvažniju informaciju o proizvodu. Nadopunjuju ju odgovarajući nacionalni zakoni i propisi. Proizvodnja, uporaba, certifikacija i nadzor određene su na nacionalnoj razini:

- Pravilnikom o opremi i zaštitnim sustavima namijenjenim za uporabu u prostorima ugroženim eksplozivnom atmosferom (NN br. 33/16, odnosno EU Direktiva ATEX 2014/34/EU) i
- Pravilnikom o najmanjim zahtjevima sigurnosti i zaštite zdravlja radnika te tehničkom nadgledanju postrojenja, opreme, instalacija i uređaja u prostorima ugroženim eksplozivnom atmosferom (NN br. 39/06, 106/07.), odnosno EU Direktivi 1999/92/EC (ATEX 137).

Odgovorna osoba dužna je osigurati njihovo provođenje u pogonu.

10. SKLADIŠTENJE I TRANSPORT

Transport i skladištenje treba vršiti samo u originalnoj ambalaži, na način istaknut na kartonskoj kutiji.

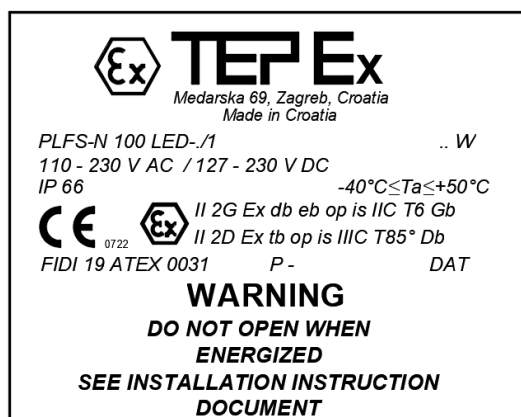
11. JAMSTVO PROIZVOĐAČA

Proizvođač izdaje jamstvo na proizvod u trajanju od 5 godina prema odredbama Zakona o obveznim odnosima. Ova izjava ima snagu Jamstvenog lista.

12. OZNAČAVANJE

Protueksplozijski zaštićena ovjesna svjetiljka PLFS-N 100 LED označena je vanjskom označnom pločicom i unutarnjom naljepnicom:

Vanjska natpisna pločica sa nazivnim podacima i upozorenjem na priključnoj komori svjetiljke:



Unutarnja natpisna pločica sa nazivnim podacima:



9. RESPONSIBILITY AND AUTHORIZATION

This instruction is the basic information about the product. It is completed by the corresponding national laws and regulations. Production, use, certification and supervision are determined at the national level:

- Regulations concerning equipment and protective systems intended for use in potentially explosive atmospheres EU directive 2014/34/EU and
- Regulations on minimum requirements for safety and health protection of workers and technical inspection of facilities, equipment, installations and equipment in hazardous areas EU directive 1999/92/EC (ATEX 137).

The responsible person shall ensure their implementation at the working facility.

10. STORAGE AND TRANSPORT

Transportation and storage of the light fitting is only allowed in the original packaging, as outlined in a cardboard box.

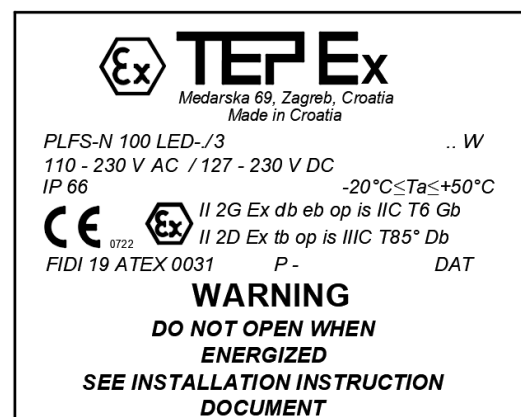
11. MANUFACTURER'S WARRANTY

The manufacturer provides a warranty on the product for a period of five years under the provisions of this user manual and the law on obligations. This statement has the force of Warranty sheet.

12. MARKING

Explosion protected pendant light fitting PLFS-N 100 LED is marked with the external plate and the inner label with technical data:

External plate with nominal data and warning on the light fitting housing:



Internal plate with nominal data: