

**EC – TYPE EXAMINATION CERTIFICATE**

[1]

[2] Equipment and Protective Systems Intended for use in Potentially Explosive Atmospheres  
Directive 94/9/EC[3] EC-Type Examination Certificate Number: **EXA 14 ATEX 0056X**

Issue: 1

[4] Equipment or Protective System **Pendant light fitting**Type: **PLFM ...-**[5] Manufacturer: **TEP Ex d.o.o.**[6] Address: **Medarska 69, 10090 Zagreb, Croatia**

[7] This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and documents therein referred to.

[8] Ex-Agencija, Notified Body number 2465 according to Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment or protective system intended for use in potentially explosive atmospheres given in Annex II of the Directive.

The examination and test results are recorded in confidential report number: **EXA 14CR0032**

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

**EN 60079-0:2012/A11:2013 EN 60079-1:2007 EN 60079-7:2007 EN 60079-31:2009**

except in respect of those requirements listed at item 18 of the Schedule.

[10] If the sign 'X' is placed after the certificate number, it indicates that the equipment or protective system is subject to specific conditions for safe use specified in the schedule to this certificate.

[11] This EC-Type Examination Certificate relates only to the design, examination and test of the specified equipment or protective system. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

[12] The marking of the equipment or protective system shall include the following:

**II 2G Ex d e IIC T6-T3 Gb  
II 2D Ex tb IIIC T80°C - T155°C Db**

or

**II 2G Ex d IIC T6-T3 Gb  
II 2D Ex tb IIIC T80°C - T155°C Db**

Date: 27.10.2014.

PB.13.TC.1276/AH

Prepared:  
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Department of equipment certification  
Approved:  
Damir Korunić, dipl.ing.el.

[13]

## SCHEDULE

[14] **EC - TYPE EXAMINATION CERTIFICATE No.: EXA 14 ATEX 0056 X**

### [15] Description of Equipment or Protective System

Light fitting PLFM ...- is designed in type of protection flameproof enclosure "d". Cable entry is made with Ex e terminal box or Ex d e adapter ADP 23/1; EXA 14 ATEX 0043 U (type of protection Ex d e) or with separately certified Ex d cable gland (type of protection Ex d).

Ambient temperature:  $-20^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}$

Nominal voltage: 10-100V DC, 110V AC, 230V AC

Nominal power: 5W - 116 W

Type code:

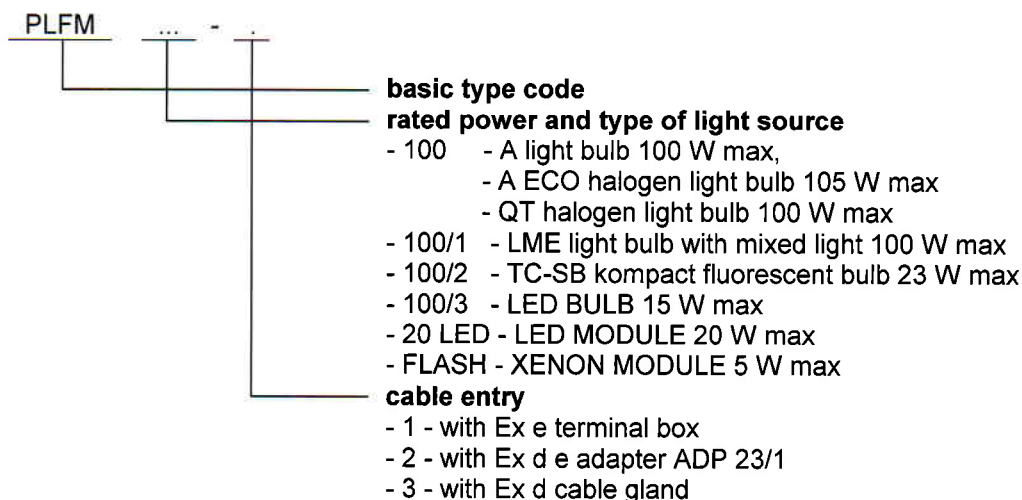


Table with types of light fitting:

Type code	Nominal voltage	Temp. class (gas)	T <sub>MAX</sub> (dust)
PLFM 100 -.	230 V AC	T4	130°C
PLFM 100/1 -.	230 V AC	T3	155°C
PLFM 100/2 -.	230 V AC	T6	80°C
PLFM 100/3 -.	230 V AC	T6	80°C
PLFM 20 LED -.	230 V AC	T6	80°C
PLFM FLASH -.	10 - 100 V DC	T6	80°C
	110 V AC		

Minimum width of joints (L) are shown in the following table:

Flameproof joint	Joints [mm]				
	L	c	d	Pitch	i <sub>max</sub>
Enclosure – glass frame (M125x2 – 6H/6g)	18	/	/	2	/
Enclosure – bushing, adapter ADP 23/1 or cable gland (M20x1,5 – 6H/6g)	12,5	/	/	1,5	/

**[15.1] Documentation**

Title:	Drawing No.:	Rev. level:	Date:
Technical description of ex-protected lamp, type PLFM...-	-	-	23.10.2014.
Certification drawing	A 43.03.01.00-1	-	23.10.2014.
Certification drawing	A 43.03.01.00-2	-	23.10.2014.
Certification drawing	A 43.03.01.00-3	-	23.10.2014.
Certification drawing	A 43.03.01.00-4	-	23.10.2014.
Certification drawing	A 43.03.01.00-5	-	23.10.2014.
Description of certification drawing for ex-protected lamp PLFM ...-	-	-	23.10.2014.
Instructions for use	TEP Ex.RS.008	5	10.2014

**[16] Confidential Report No.** EXA 14CR0032

**[16.1] Routine testing**

The manufacturer shall carry out the following routine tests:

- overpressure test with pressure not less than 13 bars in a period of at least 10 s,
- dielectric strength with test voltage: 1500 V in period of at least 60 s or 1800 V in period of at least 100 ms (only for pendant light fitting with connection compartment in type of protection increased safety 'e').

**[17] Specific Conditions for Safe Use 'X'**

The adapter of the pendant light fitting type PLFM...-2 shall be protected from mechanical impact because it was tested with lower impact energy according to EN 60079-0,

For pendant light fitting type PLFM...-2 user shall provide additional clamping of the cable outside the cable gland because the cable gland of adapter was tested with lower tensile force according to A.3.1.1. of standard EN 60079-0.

**[18] Essential Health and Safety Requirements**

Covered by the standards listed at item 9.