

(1) **EU-Type-Examination Certificate**

(2) Equipment and protective systems intended for use in potentially explosive atmospheres, **Directive 2014/34/EU**

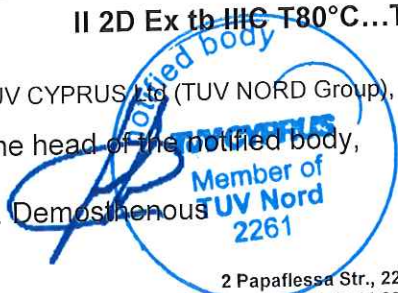


(3) **Certificate Number** TÜV CY 20 ATEX 0206393 X  
 (4) for the equipment: Explosion-proof Lighting Fixtures  
 MAML-\*\*\*-\*\*\* Series  
 (5) of the manufacturer: **MAM Explosion-proof Technology (Shanghai) Co., Ltd.**  
 (6) Address: Zone A 3rd Floor, Zone A 2nd Floor, Zone A 1st Floor, Building 6,  
 No.1888, Huiwang Road, Jiading District, Shanghai 201806, China  
 Order number: 0206393  
 Date of issue: 2020-12-14

(7) The design of this equipment or protective system and any acceptable variation thereto are specified in the schedule to this EU-Type-Examination Certificate and the documents therein referred to.  
 (8) TÜV CYPRUS Ltd, notified body No. 2261 in accordance with Article 17 of the Council Directive of 2014/34/EU of February 26, 2014, 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 and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive. The examination and test results are recorded in the confidential report No. 20 0206393.  
 (9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:  
**EN IEC 60079-0:2018                      EN 60079-1:2014                      EN 60079-31:2014**  
 (10) If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.  
 (11) This EU-Type-Examination Certificate relates only to the design, examination and tests of the specified equipment in accordance to the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this equipment which are not covered by this certificate.  
 (12) The marking of the equipment or protective system must include the following:

 **II 2G Ex db IIC T6...T3 Gb**  
**II 2D Ex tb IIIc T80°C...T135°C Db**

TÜV CYPRUS Ltd (TUV NORD Group),  
 The head of the notified body,  
 D. Demosthenous



TÜV CYPRUS (TÜV NORD) Ltd,  
 2 Papaflessa Str., 2235 Latsia, Nicosia - P.O.Box: 20732, 1663 Nicosia, Cyprus  
 Tel:+357 22 44 28 40 Fax:+35722 44 28 50 email: [info@tuvcyprus.com.cy](mailto:info@tuvcyprus.com.cy)  
[www.tuv-nord.com/cy](http://www.tuv-nord.com/cy)

This certificate may only be reproduced without any change, schedule included.  
 Excerpts or changes shall be allowed by the TÜV CYPRUS Ltd

(13) **SCHEDULE**

(14) **EU-Type-Examination Certificate No. TÜV CY 20 ATEX 0206393 X**

(15) Description of equipment

The MAML-\*\*\*-\*\*\* series explosion-proof lighting fixtures are suitable for use in Zones 1 and 2 and Zones 21 and 22.

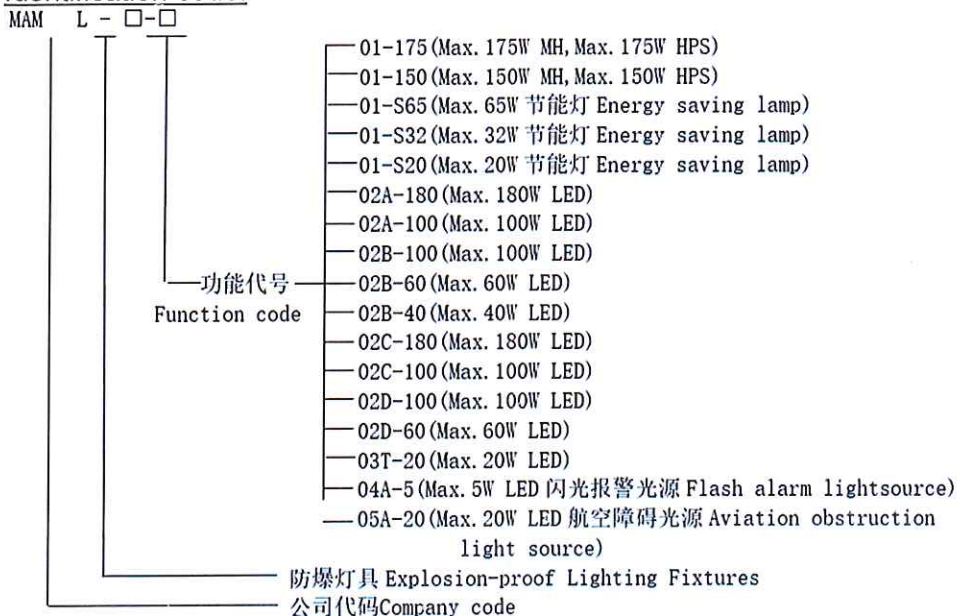
The MAML series explosion-proof lighting fixtures are made of aluminium alloy, and there are 17 types. The types MAML-02A-\*, MAML-02B-60, MAML-02C-\*, MAML-01-175, MAML-01-150 are composed of wiring chamber, power supply chamber and lighting chamber. Silicone rubber seals are provided to ensure product protection performance. The wireless connecting plate is cemented between the wiring chamber and the power supply chamber to separate the wiring chamber and the power supply chamber, and the wires between the two chambers are connected through the wireless connecting plate. The cement between the lighting chamber and the power supply chamber ensures the product's explosion-proof performance.

The types MAML-02D-\*, MAML-02B-40, MAML-01-S65, MAML-01-S32, MAML-01-S20, MAML-04A-5, MAML-05A-20, MAML-03T-20 are composed by the lighting chamber and Composition of wiring chamber. Threaded connections are used between the chambers, and silicone rubber seals are provided at the chambers to ensure product protection. The wireless connecting disc is cemented between the wiring chamber and the lighting chamber to separate the wiring chamber and the lighting chamber, and the wires between the two chambers are connected through the wireless connecting disc. MAML-02B-100, MAML-01-S65, MAML-01-175 are equipped with protective nets for mechanical protection.

Permissible range of ambient temperature:  $-45\text{ °C} \leq T_a \leq +40\text{ °C}$  or  $-45\text{ °C} \leq T_a \leq +60\text{ °C}$

The degree of enclosure protection according to EN 60529 is IP66.

Identification code:



Ratings:

Type	Light source	Ex marking		Voltage (50/60Hz)	Cable entry size		
		Ambient temperature -45°C +40°C	Ambient temperature -45°C +60°C				
MAML-01-175	Max.175W MH Max.175W HPS	/	Ex db □C T4 Gb Ex tb □C T130°C Db IP66	220-240V AC 50Hz/60Hz	M25×1.5 NPT3/4		
MAML-01-150	Max.150W MH Max.150W HPS	Ex db □C T4 Gb Ex tb □C T130°C Db IP66	Ex db □C T3 Gb Ex tb □C T135°C Db IP66				
MAML-01-S65	Max.65W Energy saving lamp	Ex db □C T6 Gb Ex tb □C T80°C Db IP66	Ex db □C T5 Gb Ex tb □C T95°C Db IP66				
MAML-01-S32	Max.32W Energy saving lamp						
MAML-01-S20	Max.20W Energy saving lamp						
MAML-02A-180	Max.180W LED	Ex db □C T5 Gb Ex tb □C T95°C Db IP66	Ex db □C T4 Gb Ex tb □C T130°C Db IP66	127-256V AC 50Hz/60Hz			
MAML-02A-100	Max.100W LED						
MAML-02B-100	Max.100W LED	Ex db □C T6 Gb Ex tb □C T80°C Db IP66	Ex db □C T5 Gb Ex tb □C T95°C Db IP66				
MAML-02B-60	Max.60W LED						
MAML-02B-40	Max.40W LED	/	Ex db □C T6 Gb Ex tb □C T80°C Db IP66				
MAML-02C-180	Max.180W LED	Ex db □C T5 Gb Ex tb □C T95°C Db IP66	Ex db □C T4 Gb Ex tb □C T130°C Db IP66				
MAML-02C-100	Max.100W LED						
MAML-02D-100	Max.100W LED	Ex db □C T6 Gb Ex tb □C T80°C Db IP66	Ex db □C T5 Gb Ex tb □C T95°C Db IP66	220-240V AC 50Hz/60Hz			
MAML-02D-60	Max.60W LED						
		Ex db □C T6 Gb Ex tb □C T80°C Db IP66	Ex db □C T4 Gb Ex tb □C T130°C Db IP66				
MAML-03T-20	Max.20W LED	/	Ex db □C T6 Gb Ex tb □C T80°C Db IP66	127-256VAC 12-36V AC 50Hz/60Hz 12-36V DC	M20×1.5 NPT1/2		
MAML-04A-5	Max.5W LED Flash alarm light source					220-240VAC 12-48V AC 50Hz/60Hz 12-48V DC	M25×1.5 NPT3/4
MAML-05A-20	Max.20W LED Aviation obstruction light source						

Warning labels:

The following warnings can be applied on the enclosure:

WARNING: Do not open when energized

WARNING: Potential electrostatic charging hazard – see instructions

(16) Test documents are listed in the test report No. 20 0206393.

Routine test:

The manufacturer shall carry out routine test according to clause 16.1 of the EN 60079-1, static overpressure test.

(17) Special conditions for safe use

The repairs of the flameproof joints may only be made by the manufacturer or on behalf of the manufacturer and on his own responsibility.

The external earth connection facility shall be connected reliably.

The property of the screws used for fastening Ex d enclosures shall be at least A2-70.

When the maximum ambient temperature is 60°C, conduct wires and cable gland rated at minimum 90°C shall be used to make external connection for model type MAML-02D-60 & MAML-01-175.

Only the suitably certified cable glands can be used for fixing cables.

(18) Essential Health and Safety Requirements

No additional ones.