



EU-TYPE EXAMINATION CERTIFICATE



Equipment or Protective System intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

- [3] EU-Type Examination Certificate Number: **DEMKO 17 ATEX 1823X Rev. 4**
- [4] Product: **Camera housings, model MAXIMUS MMX***** and Illuminator, model MLX*******
- [5] Manufacturer: **Videotec S.R.L.**
- [6] Address: **Via Friuli 6, Schio, VI 36015 Italy**
- [7] This product and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.
- [8] UL International Demko A/S, notified body number 0539 in accordance with Article 17 of the Council Directive 2014/34/EU of 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive. The examination and test results are recorded in confidential report no. **DK/ULD/ExTR17.0003/04.**
- [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 product 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 and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by the certificate.
- [12] The marking of the product shall include the following:

 **II 2 G Ex db IIB T6...T5 Gb**
 **II 2 D Ex tb IIIC T85°C...T100°C Db**

Certification Manager
Jan-Erik Storgaard

This is to certify that the sample(s) of the Product described herein ("Certified Product") has been investigated and found in compliance with the Standard(s) indicated on this Certificate, in accordance with the ATEX Product Certification Program Requirements. This certificate and test results obtained apply only to the product sample(s) submitted by the Manufacturer. UL did not select the sample(s) or determine whether the sample(s) provided were representative of other manufactured product. UL has not established Follow-Up Service or other surveillance of the product. The Manufacturer is solely and fully responsible for conformity of all product to all applicable Standards, specifications, requirements or Directives. The test results may not be used, in whole or in part, in any other document without UL's prior written approval.

Date of issue: 2017-09-15

Re-issued: 2022-09-27

Notified Body

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Schedule

EU-TYPE EXAMINATION CERTIFICATE No.

DEMKO 17 ATEX 1823X Rev. 4

[15] Description of Product

The MAXIMUS MMX flameproof housing has been designed for use with cameras operating in industrial environments in which there may be an explosive atmosphere due to gas, vapors, mists, or air powder mixtures.

The MAXIMUS MMX is intended to be fitted with a camera by the end user with a maximum power output of 4.5 W for a camera with video encoder preinstalled by manufacturer or 5.8 W if video encoder is integrated in the camera. It is a fixed camera housing that can be mounted at any angle. It may be provided with an optional sunshield. The camera housing includes a cover and an enclosure body.

The MLX is an infrared (850nm) or visible light LED illuminator for indoor and outdoor use. The enclosure, made by Stainless steel housing and cover with a glass window, is the same of MMX.

The circular front cover is fitted with a toughened glass window cemented in place and is provided with a spigot portion for securing to the enclosure body.

The enclosure body is fitted with female threaded connection points for connection of the optional sunshield and of the bracket kit.

The enclosure body provides one 1/2" NPT (M20 x 1.5 as an alternative) cable entry for end user connection to either, cable connectors or a conduit system dependent on application. The internal part of the enclosure is fitted with a gear tray for mounting the intended end user camera. In addition, the gear tray provides all the internal circuitry comprising of supply terminals, heating board and a fan. The heating board and the fan maintain the internal temperature within a minimum and a maximum when the equipment is powered.

Access to the integral terminal compartment for termination of supply or replacement of either of the fitted fuse or inputs and outputs is via the removal of the six M5 screws securing the cover to the body housing.

Externally the equipment, other than the cemented windows, is manufactured from passivated, electro-polished AiSi 316L stainless steel.

Nomenclature:

MAXIMUS MMXabcde, where:

a	Voltage	(2) 24 Vac/Vdc & PoE+
b	Camera	(0) Without camera
		other than 0 = pre-installed camera
c	Connection	(0) No cable, no cable gland
		other than 0 = Connection devices
d	Video output	(0) with video encoder integrated in the camera
		(Z) with video encoder not integrated in the camera
e	Variation	(*) Internal use – One alphanumeric character (without meanings for safety to identify the release)

MLXabcdef, where:

a	Voltage	(2) 24 Vac/Vdc & PoE+
b	Light	(8) LED infrared 850 nm
		(W) LED White
c	Illuminator Lens	(*) Pre-installed illuminator lens – One alphanumeric character (with no meanings for safety to identify pre-installed illuminator lens)
d	Connection	(0) No cable, no cable gland
		other than 0 = Connection devices
e	Model	(*) Internal use – One alphanumeric character (without meanings for safety to identify the model)
f	Release	(*) Internal use – One alphanumeric character (without meanings for safety to identify the release)

The optical radiation output of the product with respect to explosion protection, according to Annex II clause 1.3.1 of the Directive 2014/34/EU is covered in this certificate based on Exception 2) to the scope of EN 60079-28:2015.

Environmental Ratings – for MAXIMUS MMX:

Cable entries and field wiring must be suitable for an operating temperature as specified in the following table. The relation between ambient temperature range, cable entry/branching point temperatures and the assigned temperature class/maximum surface temperature is as follows:

Ambient Temperature Range	Temperature Class / Max. Surface Temperature	T Cable [°C]
-40°C ≤ Ta ≤ +65°C	T6 / T85°C	83.2°C
-40°C ≤ Ta ≤ +70°C	T5 / T100°C	88.2°C



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Schedule

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Environmental Ratings – for MLX:

Cable entries and field wiring must be suitable for an operating temperature as specified in the following table. The relation between ambient temperature range, cable entry/branching point temperatures and the assigned temperature class/maximum surface temperature is as follows:

Ambient Temperature Range	Temperature Class / Max. Surface Temperature	T Cable [°C]
-40°C ≤ Ta ≤ +55°C	T6 / T85°C	82.3°C
-40°C ≤ Ta ≤ +70°C	T5 / T100°C	97.3°C

Electrical Ratings:

MAXIMUS MMX****: 24Vac, 24Vdc, POE+, 1.32 A, 50/60Hz, 21W max.

MLX****: 24Vac, 24Vdc, POE+, 1.6 A, 50/60Hz, 25.5W max.

Routine tests

Routine overpressure tests in accordance with EN 60079-1:2014 clause 16.3 shall be conducted on all units, at a pressure of 18.05 bar for a duration of not less than 10 seconds. There shall be no sign of damage, deformation or rupture that will invalidate the concept of protection.

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Descriptive Documents

The scheduled drawings are listed in the report no. provided under item no. [8] on page 1 of this EU-Type Examination Certificate.

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Specific conditions of use:

- Care shall be taken to prevent accumulation of electrostatic charges. See installation instructions.
- Ambient temperature and Surface temperature – see instructions.
- Contact the manufacturer for information on the dimensions of the flameproof joint.


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Essential Health and Safety Requirements

The Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9.

Additional information



The trademark  will be used as the company identifier on the marking label.

The manufacturer shall inform the notified body concerning all modifications to the technical documentation as described in Annex III to Directive 2014/34/EU of the European Parliament and the Council of 26 February 2014.

