

(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 23 ATEX 0206821 X

(4) for the equipment: Modular Ex Universal

(5) of the manufacturer: **Miretti S.r.l.**

(6) Address: Via Marconi, 29/31
20812 Limbiate (MB) - Italy

Order number: 0206821

Date of issue: 2023-09-13

- (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. 23 0206821.
- (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 60079-11:2012 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 IIC T4 Gb
II 2D IIIC T85°C Db

TÜV CYPRUS Ltd (TUV NORD Group),

The head of the notified body,

D. Demosthenous



Accredited by CYS-CYSAB
Certificate No. C 004-2

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(13) **SCHEDULE**

(14) **EU-Type-Examination Certificate No. TÜV CY 23 ATEX 0206821 X**

(15) Description of equipment

The Modular Ex Universal is intended to be used in potentially explosive atmosphere of group IIC and group IIIC, in the range of ambient temperature from -20°C to +55°C. The enclosures are designed according to Gas and Dust type of protections, with a mechanical ingress protection degree IP67.

The Modular Ex Universal is an electronic system that uses transponder technology for contactless activation and registration of user of vehicles and machinery.

The user is provided with a shock sensor which, in the event of collision, activate an alarm, slow down or blocks the vehicle, the alarm is transmitted to the control unit by a wireless signal.

The Modular Ex Universal includes the following certified components: General enclosure EFS725 contains the electrical signalling communication system and recognition of the transponder electronic key, Impact sensor enclosure C30 contains the electrical system that manages and signals when there is a collision and electronic transponder key TID-TP-CL30ROTS.

Identification code:

Modular Ex Universal

Electrical characteristics:

Enclosures:

Rated Voltage: 12 V o 24 V
Maximum current: 12 V → 1 A
24 V → 0,5 A
Maximum power: 12 W

Transponder key:

Operating frequency: 120 to 140 kHz
Maximum radiant power: 125 mW

Allowable ambient temperature range:

Ambient temperature: -20°C to +55°C

Warning label:

The following warnings are applied to the enclosures:
“Do not open when energized”.

(16) Test documents are listed in the test report No. 23 0206821

(17) Special conditions for safe use

- The flame-paths are specified in the manufacturer documentation. For information regarding the dimension of the flameproof joints the manufacturer shall be contacted.
- For use in atmospheres with the presence of explosive dust: the cable entries must have a minimum degree of protection equal to IP67.

(18) Essential Health and Safety Requirements

This EU type examination certificate covers only the Essential Health and Safety Requirements related to the Directive 2014/34/EU.