

# CERTIFICATE

## (1) EU-Type Examination

### (2) Equipment or protective systems intended for use in potentially explosive atmospheres - Directive 2014/34/EU

(3) EU-Type Examination Certificate Number: **DEKRA 19ATEX0083 X** Issue Number: 1

(4) Product: **Magnetic and motion sensor, types LU18-Ex, LU19-Ex and OC19-Ex**

(5) Manufacturer: **Intermodal Telematics B.V.**

(6) Address: **Korte Huifakkerstraat 8, 4815 PS Breda,  
The Netherlands**

(7) This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) DEKRA Certification B.V., Notified Body number 0344 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the 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 test report number 223832700 issue 1.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

**EN IEC 60079-0 : 2018**

**EN 60079-11 : 2012**

(10) If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of 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 this certificate.

(12) The marking of the product shall include the following:



**II 2 G Ex ib IIB T4 Gb (for LU18-Ex)**

**II 2 G Ex ib IIC T4 Gb (for LU19-Ex and OC19-Ex)**

Date of certification: 17 January 2020

DEKRA Certification B.V.

Richard Schuller  
Certification Manager



(13) **SCHEDULE**

(14) **to EU-Type Examination Certificate DEKRA 19ATEX0083 X**

Issue No. 1

(15) **Description**

The LU18-Ex, LU19-Ex and OC19-Ex are intrinsically safe battery powered wireless magnetic and motion sensors designed for railway applications. The products contains a low power radio transmitter.

The non-metallic enclosure is made from polyurethane and fully enclose the electronics. The modules are intend to be screwed either to a railway bogie or railway tank car.

Ambient temperature range: -40 °C to 60 °C.

**Electrical data**

The product contains two non-replaceable 3.6 V cells.

**Installation instructions**

The instructions provided with the product shall be followed in detail to assure safe operation.

(16) **Report Number**

No. 223832700 issue 1.

(17) **Specific conditions of use**

Potential Electrostatic charging hazard. Clean only using wet cloth.

(18) **Essential Health and Safety Requirements**

Covered by the standards listed at item (9).

(19) **Test documentation**

As listed in Report No. 223832700 issue 1.

(20) **Certificate history**

Issue 0 -	223832700	initial certificate for LU18-Ex
Issue 1 -	224254800	add types LU19-Ex and OC19-Ex.