



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: IECEx CES 14.0033

Issue No: 2

Certificate history:

Issue No. 2 (2018-11-22)

Issue No. 1 (2015-09-09)

Issue No. 0 (2014-12-05)

Status: **Current**

Page 1 of 4

Date of Issue: **2018-11-22**

Applicant: **CEMB S.p.A.**
Via Risorgimento, 9
I- 23826 Mandello del Lario (LC)
Italy

Equipment: **Vibrations Transmitter, Model TR-26 and TR-27**

Optional accessory:

Type of Protection: **Intrinsic Safety 'I'**

Marking:

Ex Ia I Ma

Ex Ia IIC "T6...T4" Ga

Ex Ia IIIC "T85 °C...T135 °C" Da

Ex Ia IIC "T6...T4" Gb

Ex Ia IIIC "T85 °C...T135 °C" Db

Approved for issue on behalf of the IECEx
Certification Body:

Mirko Balaz

Position:

Head of IECEx CB

Signature:
(for printed version)

Date:

22-11-2018

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

CESI
Centro Elettrotecnico
Sperimentale Italiano S.p.A.
Via Rubattino 54
20134 Milano
Italy

CESI S.p.A.
Testing & Certification Division
Business Area Certification

Il Responsabile

(Roberto Piccin)



IECEX Certificate of Conformity

Certificate No: IECEx CES 14.0033

Issue No: 2

Date of Issue: 2018-11-22

Page 2 of 4

Manufacturer: **CEMB S.p.A.**
Via Risorgimento, 9
I- 23826 Mandello del Lario (LC)
Italy

Additional Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:

The apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-11 : 2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

[IT/CES/ExTR14.0032/00](#)

[IT/CES/ExTR14.0032/01](#)

[IT/CES/ExTR14.0032/02](#)

Quality Assessment Report:

[IT/CES/QAR14.0003/04](#)



IECEX Certificate of Conformity

Certificate No: IECEx CES 14.0033

Issue No: 2

Date of Issue: 2018-11-22

Page 3 of 4

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The TR-26 and TR-27 are absolute vibrations transducers operating with 4-20 mA two wires current loop, permanently mounted and powered by an intrinsically safe associated apparatus.

Both transmitters are composed of a stainless steel enclosure containing the accelerometer and an electronic card for signal conditioning completely encapsulated in casting compound.

The electrical circuit connection for TR-26 transmitter is made by means of a connector in stainless steel material for EPL Ga or in aluminium for EPL Gb.

The TR-27 transmitter has a permanently cable connected (ETFE, shielded and armoured) and AISI316L cable-gland; the TR-27 has also instead grade of protection of IP68 (70m; 24h).

For further information see Annex.

SPECIFIC CONDITIONS OF USE: NO



IECEX Certificate of Conformity

Certificate No: IECEx CES 14.0033

Issue No: 2

Date of Issue: 2018-11-22

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Variation 2

Variation 2.1

Added Group I (for use in mines susceptible to firedamp) and Group III (for use in areas with an explosive dust atmosphere other than mines susceptible to firedamp).

Variation 2.2

Updated equipment's electrical characteristics.

Variation 2.3

The plastic MIL-C-5015 connector, for the equipment TR-26, is no longer used.

Variation 2.4

The Vibrations Transmitter TR-26 and TR-27, originally assessed in compliance to IEC 60079-0:2011, IEC 60079-11:2011 and IEC 60079-26:2006. The equipment have been re-assessed on the basis of IEC 60079-0:2017 and IEC 60079-11:2011 Standards

Annex:

[CEMB IECEx CES 14.0033 Issue 2 ANNEX - TR26 and TR27.pdf](#)



IECEX Certificate of Conformity



Prot: B8023921

Annex to certificate:
Applicant:

IECEX CES 14.0033 Issue No.:2 of 2018-11-22
CEMB S.p.A.
Via Risorgimento 9; I- 23826 Mandello del Lario (LC), Italy

Electrical Apparatus: **Vibrations Transmitter, Model TR-26 and TR-27**

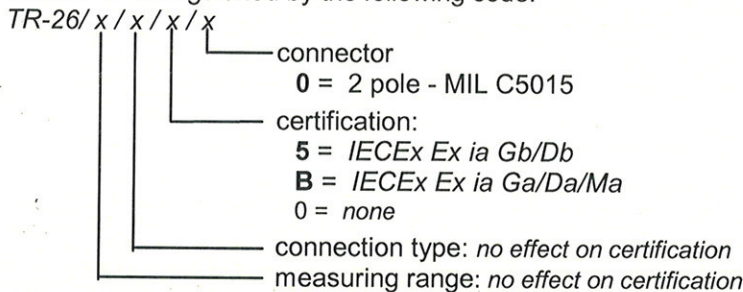
Transmitter models, Construction and Marking

<u>Model</u>	<u>Construction</u>	<u>Marking</u>
TR-26	Stainless steel body and connector	Ex ia IIC "T6...T4" Ga Ex ia IIIC "T85 °C... 135 °C" Da Ex ia I Ma
TR-26	Stainless steel body and aluminium connector	Ex ia IIC "T6...T4" Gb Ex ia IIIC "T85 °C... 135 °C" Db
TR-27	Stainless steel body and cable gland, with ETFE integral cable	Ex ia IIC "T6...T4" Ga Ex ia IIIC "T85 °C... 135 °C" Da Ex ia I Ma

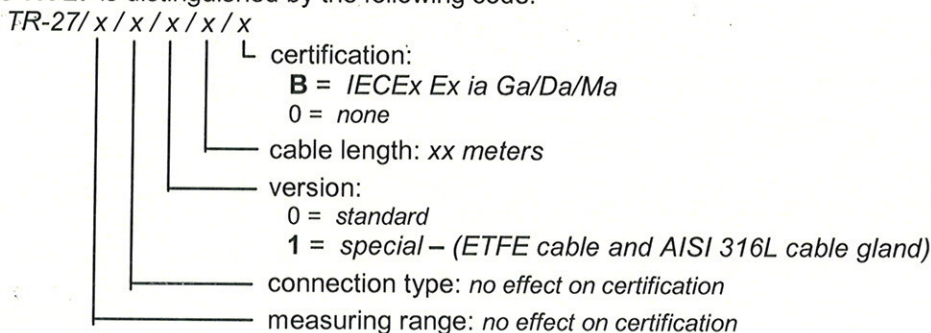
Model identification

Identification of the Transmitters TR-26 and TR-27 (the detail of the code is indicated in the Manufacturer documents)

The **TR-26** is distinguished by the following code:



The **TR-27** is distinguished by the following code:





IECEx Certificate of Conformity

CESI

Prot: B8023921

Annex to certificate:

IECEx CES 14.0033 Issue No.:2 of 2018-11-22

Applicant:

CEMB S.p.A.

Via Risorgimento 9; I- 23826 Mandello del Lario (LC), Italy

Electrical Apparatus:

Vibrations Transmitter, Model TR-26 and TR-27

Electrical characteristics

Intrinsically safe circuits - TR-26 (terminals:1-2)

Ui: 30.0 V li: 100 mA Pi: 0.750 W Ci: negligible Li: negligible

Ui: 30.5 V li: 97 mA Pi: 0.740 W Ci: negligible Li: negligible

Intrinsically safe circuits - TR-27

Ui: 30.0 V li: 100 mA Pi: 0.750 W

Ui: 30.5 V li: 97 mA Pi: 0.740 W

Ci and Li parameters, are defined according to the cable length: Ci=0.17 nF/m Li=1.20 μ H/m

The **TR-26** and **TR-27**, shall be supplied by means of certified associated apparatus complying with the limits of the above electrical characteristics.

Degree of protection: **TR-26:** IP65 ; **TR-27:** IP68 (70m; 24h)

Ambient temperature T_{amb} : from -60 °C up to +75 °C for T6 or T85 °C
 from -60 °C up to +90 °C for T5 or T100 °C
 from -60 °C up to +120 °C for T4 or T135 °C



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEX Scheme visit www.iecex.com

Certificate No.: IECEX CES 18.0044X

Issue No: 0

Certificate history:

Issue No. 0 (2018-11-27)

Status: **Current**

Page 1 of 3

Date of Issue: **2018-11-27**

Applicant: **CEMB S.p.A.**
Via Risorgimento, 9
I-23826 Mandello del Lario (LC)
Italy

Equipment: **Vibrations Transmitter, Model TR-26 and TR-27**
Optional accessory:

Type of Protection: **Increased safety 'ec', Dust ignition protection 'tc'**

Marking:
Ex ec IIC "T6...T4" Gc
Ex tc IIIC "T85 °C...T135 °C" Dc

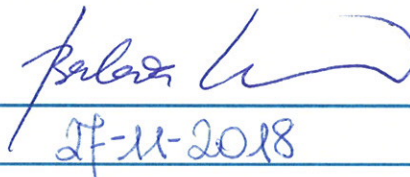
*Approved for issue on behalf of the IECEX
Certification Body:*

Mirko Balaz

Position:

Head of IECEX CB

*Signature:
(for printed version)*



27-11-2018

Date:

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Sperimentale Italiano S.p.A.
Via Rubattino 54
20134 Milano
Italy

CESI S.p.A.
Testing & Certification Division
Business Area Certification
Il Responsabile

(Roberto Piccin)





IECEX Certificate of Conformity

Certificate No: IECEx CES 18.0044X Issue No: 0

Date of Issue: 2018-11-27 Page 2 of 3

Manufacturer: **CEMB S.p.A.**
Via Risorgimento, 9
I-23826 Mandello del Lario (LC)
Italy

Additional Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:

The apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2017 Edition:7.0	Explosive atmospheres - Part 0: Equipment - General requirements
IEC 60079-31 : 2013 Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
IEC 60079-7 : 2017 Edition:5.1	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

[IT/CES/ExTR18.0044/00](#)

Quality Assessment Report:

[IT/CES/QAR14.0003/04](#)



IECEX Certificate of Conformity

Certificate No: IECEx CES 18.0044X

Issue No: 0

Date of Issue: 2018-11-27

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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The TR-26 and TR-27 are absolute vibrations transducers operating with 4-20 mA two wires current loop, permanently mounted and powered by an SELV / PELV or class 2 power supply.

Both transmitters are composed of a stainless steel enclosure containing the accelerometer and an electronic card for signal conditioning completely encapsulated in casting compound.

The electrical circuit connection for TR-26 transmitter is made by means of MIL-C-5015 stainless steel or aluminium connector. The TR-27 transmitter has a permanently cable connected (ETFE, shielded and armoured) and AISI316L cable-gland; the TR-27 has also instead grade of protection of IP68 (70m; 24h).

For further information see Annex.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- The TR-26 and TR-27 shall be powered by mean an SELV / PELV or class 2 power supply with 24 Vdc output (max 30.5 Vdc) and through 100 mA fuse.
- Do not connect or disconnect when energized.

Annex:

[CEMB IECEx CES 18.0044X Issue 0 ANNEX - TR26 and TR27.pdf](#)



IECEX Certificate of Conformity



Prot: B8024431

Annex to certificate:
Applicant:

IECEX CES 18.0044X Issue No.:0 of 2018-11-27
CEMB S.p.A.
Via Risorgimento 9; I- 23826 Mandello del Lario (LC), Italy

Electrical Apparatus: **Vibrations Transmitter, Model TR-26 and TR-27**

Description of equipment

The **TR-26** and **TR-27** are absolute vibrations transducers operating with 4-20 mA two wires current loop, permanently mounted and powered by an SELV / PELV or class 2 power supply. Both transmitters are composed of a stainless steel enclosure containing the accelerometer and an electronic card for signal conditioning completely encapsulated in casting compound. The electrical circuit connection for **TR-26** transmitter is made by means of MIL-C-5015 stainless steel or aluminium connector. The **TR-27** transmitter has a permanently cable connected (*ETFE, shielded and armoured*) and AISI316L cable-gland; the **TR-27** has also instead grade of protection of IP68 (70m; 24h).

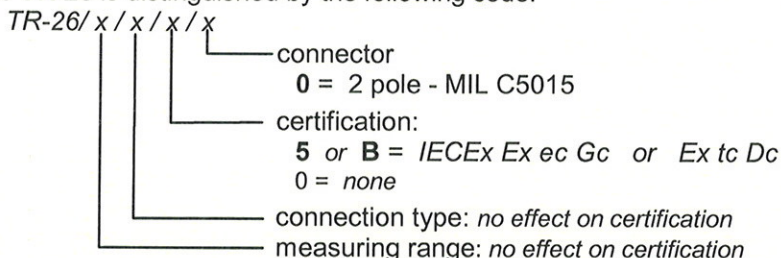
Transmitter models, Construction and Marking

<u>Model</u>	<u>Construction</u>	<u>Marking</u>
TR-26	Stainless steel body and MIL-C-5015 connector	Ex ec IIC "T6...T4" Gc Ex tc IIIC "T85 °C... 135 °C" Dc
TR-27	Stainless steel body and cable gland, with ETFE integral cable	Ex ec IIC "T6...T4" Gc Ex tc IIIC "T85 °C... 135 °C" Dc

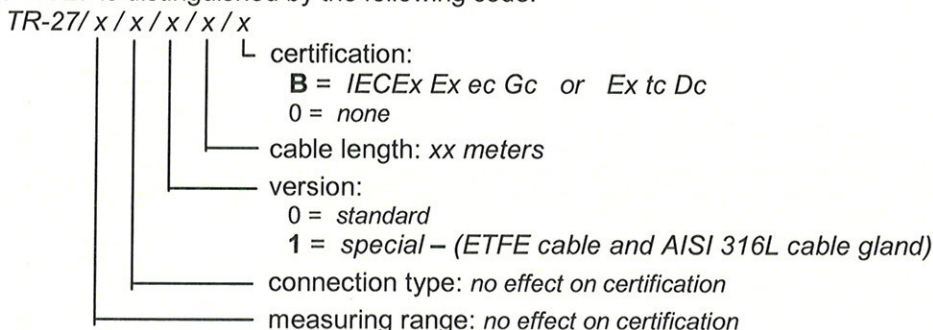
Model identification

Identification of the Transmitters **TR-26** and **TR-27** (the detail of the code is indicated in the Manufacturer documents)

The **TR-26** is distinguished by the following code:



The **TR-27** is distinguished by the following code:





Prot: B8024431

Annex to certificate:
Applicant:

IECEX Certificate of Conformity

CESI

IECEX CES 18.0044X Issue No.:0 of 2018-11-27
CEMB S.p.A.
Via Risorgimento 9; I- 23826 Mandello del Lario (LC), Italy

Electrical Apparatus: **Vibrations Transmitter, Model TR-26 and TR-27**

Electrical characteristics

Rated power supply - TR-26 (terminals:1-2)

Rated voltage Un: 24 Vdc (*Max Voltage: 30.5 Vdc*)

Max current: 100 mA

Rated power supply - TR-27

Rated voltage Un: 24 Vdc (*Max Voltage: 30.5 Vdc*)

Max current: 100 mA

The **TR-26** and **TR-27** shall be powered by an SELV / PELV or class 2 power supply with 24 Vdc output (*max 30.5 Vdc*) by mean of 100 mA fuse.

Degree of protection: **TR-26:** IP65 ; **TR-27:** IP68 (*70m; 24h*)

Ambient temperature T_{amb} : from -60 °C up to +75 °C for T6 or T85 °C
 from -60 °C up to +90 °C for T5 or T100 °C
 from -60 °C up to +120 °C for T4 or T135 °C



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: IECEx CES 14.0033 issue No.:1

Certificate history:
Issue No. 1 (2015-9-9)
Issue No. 0 (2014-12-5)

Status: Current

Date of Issue: 2015-09-09 Page 1 of 4

Applicant: CEMB S.p.A.
Via Risorgimento, 9
I- 23826 Mandello del Lario (LC)
Italy

Electrical Apparatus: Vibrations Transmitter, Model TR-26 and TR-27
Optional accessory:

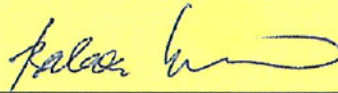
Type of Protection: Intrinsic Safety 'i'

Marking: Ex ia IIC T6, T5, T4 Ga
Ex ia IIC T6, T5, T4 Gb

Approved for issue on behalf of the IECEx Certification Body: Mirko Balaz

Position: Head of IECEx CB

Signature:
(for printed version)


9-9-2015

Date:

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the Official IECEx Website.

Certificate issued by:

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Centro Elettrotecnico
Sperimentale Italiano S.p.A.
Via Rubattino 54
20134 Milano
Italy

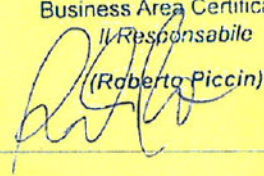
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CESI S.p.A.

Testing & Certification Division
Business Area Certification

Il Responsabile

(Roberto Piccin)



PAD B5019404 (2134645) - USO RISERVATO

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IECEX Certificate of Conformity

Certificate No.: IECEX CES 14.0033

Date of Issue: 2015-09-09

Issue No.: 1

Page 2 of 4

Manufacturer: **CEMB S.p.A.**
Via Risorgimento, 9
I- 23826 Mandello del Lario (LC)
Italy

Additional Manufacturing location
(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEX Quality system requirements. This certificate is granted subject to the conditions as set out in IECEX Scheme Rules, IECEX 02 and Operational Documents as amended.

STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2011 Edition: 6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-11 : 2011 Edition: 6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
IEC 60079-26 : 2006 Edition: 2	Explosive atmospheres - Part 26: Equipment with equipment protection level (EPL) Ga

This Certificate does not indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

IT/CES/ExTR14.0032/00

IT/CES/ExTR14.0032/01

Quality Assessment Report:

IT/CES/QAR14.0003/01



IECEx Certificate of Conformity

Certificate No.: IECEx CES 14.0033

Date of Issue: 2015-09-09

Issue No.: 1

Page 3 of 4

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The TR-26 and new device TR-27 are an absolute vibrations transducer operating with 4-20 mA two wires current loop, permanently mounted and powered by an intrinsically safe associated apparatus. Both transmitters are composed of a stainless steel enclosure containing the accelerometer and an electronic card for signal conditioning completely encapsulated in casting compound.

The electrical circuit connection for TR-26 device is made by means of a connector in stainless steel material for EPL Ga or in aluminium or plastic material for EPL Gb.

The TR-27 transmitter has a permanently cable connected (ETFE, shielded and armoured) and AISI316L cable-gland. This configuration provides protection degree IP68 (70 m for 24 hours).

For further information see Annex.

CONDITIONS OF CERTIFICATION: NO



IECEx Certificate of Conformity

Certificate No.: IECEx CES 14.0033

Date of Issue: 2015-09-09

Issue No.: 1

Page 4 of 4

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Variation 1.1

New type of transmitter TR-27 with permanently cable connected (ETFE, shielded and armoured) and Ingress protection IP68 (70m; 24h)

Variation 1.2

Low ambient temperature range extended from -50°C up to -60 °C



Prot: B5019404

Annex to certificate:

Applicant:

IECEX Certificate of Conformity

CESI

IECEX CES 14.0033 Issue No.:1 of 2015-09-09

CEMB S.p.A.

Via Risorgimento 9; I- 23826 Mandello del Lario (LC), Italy

Electrical Apparatus:

Vibrations Transmitter, Model TR-26 and TR-27

Model identification

Identification of the Transmitters **TR-26 and TR-27** (the detail of the code is indicated in the Manufacturer documents)

The **TR-26** is distinguished by the following code:

TR-26/x/x/x

- Type of certification:
 - 5 = IECEX Ex ia IIC T6/T5/T4 Gb
 - B = IECEX Ex ia IIC T6/T5/T4 Ga
 - 0 = none - not ATEX
- Type of connection: no effect on certification
- Measuring range: no effect on certification

The **TR-27** is distinguished by the following code:

TR-27/x/x/x/x/x

- Type of certification:
 - B = IECEX Ex ia IIC T6/T5/T4 Ga
 - 0 = none - not ATEX
- Cable length: xx meters
- Version:
 - 0 = standard – not ATEX or IECEX
 - 1 = special – cable ETFE and cable gland AISI 316L
- Type of connection: no effect on certification
- Measuring range: no effect on certification

PAD B5019404 (2134646) - USO RISERVATO

Electrical characteristics

Intrinsically safe circuits (terminals:1-2 TR-26)

Ui: 28 V

Ii: 100 mA

Pi: 0.650 W

Ci: negligible

Li: negligible

Intrinsically safe circuits (TR-27)

Ui: 28 V

Ii: 100 mA

Pi: 0.650 W

Ci: depending on the cable's length = 0.17 nF/m

Li: depending on the cable's length = 1.2 µH/m

The **TR-26** and **TR-27**, shall be supplied by certified associated apparatus complying with the limits of the above electrical characteristics.

Degree of protection:

TR-26 : IP65 ;

TR-27 : IP68 (70 m for 24 hours)

Ambient temperature T_{amb} : from -60 °C up to +75 °C for T6

from -60 °C up to +90 °C for T5

from -60 °C up to +120 °C for T4



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification Scheme for Explosive Atmospheres
for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: IECEx CES 14.0033 issue No.: 0 Certificate history:

Status: Current

Date of Issue: 2014-12-05 Page 1 of 3

Applicant: CEMB S.p.A.
Via Risorgimento, 9
I- 23826 Mandello del Lario (LC)
Italy

Electrical Apparatus: Vibrations Transmitter, Model TR-26
Optional accessory:

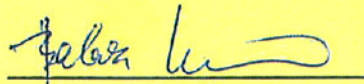
Type of Protection: Intrinsic Safety 'i'

Marking: Ex ia IIC T6, T5, T4 Ga
Ex ia IIC T6, T5, T4 Gb

Approved for issue on behalf of the IECEx Certification Body: Mirko Balaz

Position: Head of IECEx CB

Signature: (for printed version)


15-12-2014

Date:

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3. The Status and authenticity of this certificate may be verified by visiting the Official IECEx Website.

Certificate issued by:
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Via Rubattino 54
20134 Milano
Italy

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Testing & Certification Division
Business Area Certification
Responsabile


PAD B4029214 (2030066) - USO RISERVATO

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IECEX Certificate of Conformity

Certificate No.: IECEx CES 14.0033
Date of Issue: 2014-12-05 Issue No.: 0
Page 2 of 3

Manufacturer: **CEMB S.p.A.**
Via Risorgimento, 9
I- 23826 Mandello del Lario (LC)
Italy

Additional Manufacturing location
(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2011 Edition: 6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-11 : 2011 Edition: 6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "I"
IEC 60079-26 : 2006 Edition: 2	Explosive atmospheres - Part 26: Equipment with equipment protection level (EPL) Ga

This Certificate does not indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

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Test Report:
IT/CES/ExTR14.0032/00

Quality Assessment Report:

IT/CES/QAR14.0003/01



IECEx Certificate of Conformity

Certificate No.: IECEx CES 14.0033

Date of Issue: 2014-12-05

Issue No.: 0

Page 3 of 3

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The TR-26 is an absolute vibrations transducer operating with 4-20 mA two wires current loop, permanently mounted and powered by an intrinsically safe associated apparatus. This device is composed of a stainless steel enclosure containing the accelerometer and an electronic card for signal conditioning completely encapsulated in casting compound. The electrical circuit connection is made by means of a connector in stainless steel material for EPL Ga or in aluminium or plastic material for EPL Gb.

Electrical characteristics

- U_i : ≤ 28 V
- I_i : ≤ 100 mA
- P_i : ≤ 0.65 W
- C_i : negligible
- L_i : negligible
- Degree of protection: IP 65
- Ambient temperature:
 - $-50^{\circ}\text{C} + +75^{\circ}\text{C}$ for temperature class T6
 - $-50^{\circ}\text{C} + +90^{\circ}\text{C}$ for temperature class T5
 - $-50^{\circ}\text{C} + +120^{\circ}\text{C}$ for temperature class T4

CONDITIONS OF CERTIFICATION: NO