

# CESI

# CERTIFICATE



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Sezione Ordinaria  
N. R.E.A. 429222  
P.I. IT00793580150

Schema di certificazione  
**CESI-ATEX**

## [1] EC-TYPE EXAMINATION CERTIFICATE

[2] **Equipment or Protective System intended for use  
in potentially explosive atmospheres  
Directive 94/9/EC**

[3] EC-Type Examination Certificate number:  
**CESI 03 ATEX 101 X**

[4] **Equipment:** Grounding Clamp type ISEO1, ISEO2

[5] **Manufacturer:** ICMI s. r. l.

[6] **Address:** Via Praga 4, 24040 Zingonia-Verdellino Bg Italy

[7] This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

[8] CESI, notified body n. 0722 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, 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 confidential report n. EX- A3/017387.

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

**EN 50014: 1997 + A1 A2 EN 50018: 2000 + A1**

[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 EC-TYPE EXAMINATION CERTIFICATE relates only to the design, examination and tests of the specified equipment or protective system in accordance to the Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

[12] The marking of the equipment or protective system shall include the following:



**II 2G EEx d IIB T6**

This certificate may only be reproduced in its entirety and without any change, schedule included.

Date May 19<sup>th</sup> 2003 - Translation issued the May 19<sup>th</sup> 2003

**Prepared**  
Vanni Ottoboni

**Verified**  
Mirko Balaz

**Approved**  
Ulisse Colombo

**CESI**

**CENTRO ELETTROTECNICO Sperimentale ITALIANO**  
Business Unit

Responsabile

[13]

## Schedule

[14] **EC-TYPE EXAMINATION CERTIFICATE n. CESI 03 ATEX 101 X**

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[15] **Description of equipment**

Grounding Clamp type ISEO1, ISEO2.

The ISEO1 model has one flameproof chamber and two wires to ground.

The ISEO2 model has two flameproof chamber, and three wires to ground (one wire to check grounding).

The detailed description of the grounding clamps and their constructional characteristics are reported in the documents annexed to this certificate.

### Electrical characteristics

Maximum insulation voltage                      3 kV

Rated current    10 A

Ambient temperature range                      -20÷+55 °C

### Warning label

None.

[16] **Report n. EX- A3/017387**

### Routine tests

The manufacturer shall carry out the routine tests prescribed at clause 24 of the EN 50014 standard.

The enclosures have a free volume less than 10 cm<sup>3</sup>.

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[13]

## Schedule

[14] **EC-TYPE EXAMINATION CERTIFICATE n. CESI 03 ATEX 101 X**

### Descriptive documents (prot. EX- A3/017377)

- n. Technical Note IT NTPIN (3 p.)	Rev. 1	dated	30.06.2003
- n. Safety instruction IT SAFPIN (5 p.)	Rev. 2	dated	03.07.2003
- n. EC declaration of conformity	Rev. 0	dated	08.11.2002
- n. 2877/00/H		dated	09.01.2003
- n. 5301/00/G		dated	10.06.2003
- n. 2878/00/H		dated	09.01.2003
- n. 1352/2/F	Rev. F	dated	18.11.2002
- n. 1353/2/H	Rev. H	dated	02.01.2003
- n. 1355/4/A	Rev. A	dated	01.10.1986
- n. 1357/4/F	Rev. F	dated	04.11.2002
- n. 1358/4/C	Rev. C	dated	10.06.2003
- n. 1360/4/B	Rev. B	dated	16.09.1996
- n. 1361/4		dated	30.09.1986
- n. 1362/4/B	Rev. B	dated	13.03.2000
- n. 1363/4		dated	30.09.1986
- n. 1364/4/A	Rev. A	dated	01.10.1986
- n. 1365/4/A	Rev. A	dated	10.06.2003
- n. 1366/4/D	Rev. D	dated	02.01.2003
- n. 1367/4/B	Rev. B	dated	13.03.2000
- n. 1822/4/B	Rev. B	dated	10.06.2003
- n. 1886/4/A	Rev. A	dated	08.10.2002
- n. 2640/4/B	Rev. B	dated	01.10.1986
- n. 2708/4/C	Rev. C	dated	10.03.2003
- n. 5271/4		dated	25.05.2003
- n. 5272/4		dated	25.05.2003
- n. 5283/4		dated	10.06.2003

One copy of all documents is kept in CESI files.

[17] **Special conditions for safe use (X)**

The device, object of this Certificate is adequate to ground electrostatically charged elements having a potential not higher than 3 kV.

The grounding clamp ISEO1 and ISEO2 must be connected and used as shown into the safety instruction.

[18] **Essential Health and Safety Requirements**

Covered by standards.

## EXTENSION n. 01/05



to EC-Type Examination Certificate CESI 03 ATEX 101X

Equipment: Grounding Clamp type ISEO1, ISEO2

Manufacturer: ICMI s. r. l.

Address: Via Praga 4, 24040 Zingonia-Verdellino Bg Italy

**Admitted variation:** new degree of protection and constructive variation.

New degree of protection:

- new category II 2 GD (added protection against the risk of explosion from combustible dusts in conformity with the standard EN 50281-1-1)
- Use in presence of IIC group gas

According to the protection adopted the Equipment can have the following marking:

**II 2GD EEx d IIC T6 IP65 T 85 °C**

Constructive variation:

- New cable stop
- Use the PEEK (Polyetheretherketon) material alternatively to the PTFE (Polytetrafluorethylen) to make the rod clawing support.
- Change in the rod clawing support

This extension and annexed descriptive documents must be annexed to the EC-Type Examination Certificate CESI 03 ATEX 101X.

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**date** 12<sup>th</sup> September 2005 - translation issued the 12<sup>th</sup> September 2005

**prepared** CERT - Vanni Ottoboni

**verified** CERT - Mirko Balaz

**approved** CERT - Ulisse Colombo

**CESI**

CENTRO ELETTROTECNICO SPERIMENTALE ITALIANO

Business Unit Certification

Responsabile

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## EXTENSION n. 01/05

to EC-Type Examination Certificate CESI ##ATEX###

### Routine tests

The manufacturer shall carry out the routine tests prescribed at clause 24 of the EN 50014 standard.  
The enclosures have a free volume less than 10 cm<sup>3</sup>.

Report n. EX-A5/044280

Descriptive documents (prot. EX-A5/044293)

- n. Technical Note IT NTPIN	(3 pages)	Rev. 2	dated	24.08.2005
- n. Safety instruction IT SAFPIN	(6 pages)	Rev. 3	dated	15.03.2005
- n. EC declaration of conformity		Rev. 1	dated	05.09.2005
- n. 2877/00/I		Rev. I	dated	15.04.2005
- n. 5301/00/H		Rev. H	dated	15.04.2005
- n. 2878/00/I		Rev. I	dated	15.04.2005
- n. 1352/2/G		Rev. G	dated	08.01.2004
- n. 1353/2/I		Rev. I	dated	15.04.2005
- n. 1357/4/G		Rev. G	dated	26.07.2004
- n. 1363/4/A		Rev. A	dated	10.05.2004
- n. 1366/4/E		Rev. E	dated	16.09.2004
- n. 1367/4/C		Rev. C	dated	13.01.2005
- n. 1822/4/C		Rev. C	dated	16.09.2004
- n. 2708/4/D		Rev. D	dated	26.07.2005
- n. 5271/4/A		Rev. A	dated	26.07.2004
- n. 5272/4/A		Rev. A	dated	26.07.2004
- n. 5286/2/A		Rev. A	dated	15.10.2004
- n. 5357/4		Rev. 0	dated	15.07.2005
- n. 5358/4		Rev. 0	dated	15.07.2005
- n. 5359/4		Rev. 0	dated	15.07.2005
- n. 5365/2/G		Rev. 0	dated	24.08.2005
- n. 5366/2/G		Rev. 0	dated	24.08.2005
- n. 5367/2/G		Rev. 0	dated	24.08.2005

One copy of all documents is kept in CESI files.

### Essential Health and Safety Requirements

Compliance with the Health and Safety Requirements has been assured by compliance with the following standards:

**EN 50014 - 1997 + A1..A2** – General requirements

**EN 50018 - 2000 + A1** - Flameproof enclosures "d"

**EN 50281-1-1 – 1998 + A1** – Electrical apparatus for use in the presence of combustible dust. Part 1-1: Electrical apparatus protected by enclosures – Construction and testing.

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## EXTENSION n. 02/07

to EC-Type Examination Certificate CESI 03 ATEX 101X

Equipment: Grounding clamp type ISEO1, ISEO2

Manufacturer: ICMI s.r.l.

Address: Via Praga 4, 24040 Zingonia – Verdellino (Bg)

### Admitted variation: Standard update and constructive modifications:

- Standard update to EN 60079-0, EN 60079-1, EN 61241-0, EN 61241-1 standards.
- Update of name plate.
- Insertion of a bushing to a terminal grip clamp type ISEO.
- Use of the anti-tear system with the ISEO clamps without cable.
- Use of a new active body clamp with bushing in stainless steel.
- Use of spiral cable for grounding.
- Update drawing.

### Identification equipment

The equipment shall include the following marking.

 II 2GD Ex d IIC T6 Ex tD A21 IP 65 T85°C

This extension and annexed descriptive documents must be annexed to the EC-Type Examination Certificate CESI 03ATEX101X.

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date May 30<sup>th</sup> 2007 - translation issued the May 30<sup>th</sup> 2007

prepared Pierluigi Molinari

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approved Fiorenzo Bregani

**CESI**  
Centro Elettrotecnico Sperimentale Italiano  
Giacinto Motta SpA

*Bregani*

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## EXTENSION n. 02/07

to EC-Type Examination Certificate CESI 03ATEX101 X

Report n. EX- A7/015250

### Routine Tests

The manufacturer shall carry out the routine tests prescribed at clause 27 of the EN 60079-0 standard. The enclosures have a free volume less than 10 cm<sup>3</sup>.

### Descriptive documents (prot. EX- A7/014974)

- Technical note IT NTPIN	Rev. 3	dated	06.12.2006
- Drawing n. 2877/00/L		dated	06.12.2006
- Drawing n. 5301/00/I		dated	06.12.2006
- Drawing n. 2878/00/L		dated	06.12.2006
- Drawing n. 5365/2/H		dated	06.12.2006
- Drawing n. 5366/2/H		dated	06.12.2006
- Drawing n. 5367/2/H		dated	06.12.2006
- Drawing n. 5225/4		dated	02.04.2002
- Drawing n. 2271/4/B		dated	08.01.2007
- Drawing n. 2272/4/B		dated	08.01.2007
- Drawing n. 5357/4/A		dated	06.12.2006
- Drawing n. 5358/4/A		dated	06.12.2006
- Drawing n. 5448/2		dated	06.12.2006
- Drawing n. 1353/2/L		dated	06.12.2006
- Drawing n. 5468/2/G		dated	06.12.2006
- Drawing n. 5469/2/G		dated	06.12.2006
- Safety instructions IT SAFPIN	Rev. 5	dated	06.12.2006
- Declaration of conformity	Rev. 2	dated	06.12.2006

One copy of all documents is kept in CESI files.

### Special conditions for safe use (X)

The device, object of this Certificate is adequate to ground electrostatically charged elements having a potential not higher than 3 kV.

The grounding clamp ISEO1 and ISEO2 must be connected and used as shown into the safety instruction.

### Essential Health and Safety Requirements

Compliance with the Health and Safety Requirements has been assured by compliance with the following standards:  
EN 60079-0: 2006 - Electrical apparatus for explosive gas atmospheres. Part 0: General requirements  
EN 60079-1: 2004 - Electrical apparatus for explosive gas atmospheres. Part 1: Flameproof enclosures "d"  
EN 61241-0: 2004 - Electrical apparatus for use in the presence of combustible dust. Part 0: General requirements  
EN 61241-1: 2006 - Electrical apparatus for use in the presence of combustible dust. Part 1: Protection by enclosures "tD".

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**EXTENSION n. 03/12**

to EC-Type Examination Certificate CESI 03ATEX101X

**Equipment:** Grounding clamp type ISO1 and ISEO2



**Manufacturer:** ICMI S.R.L.

**Address:** Via Praga 4, 24040 Zingonia – Verdellino (BG) - Italy

**Admitted variation**

Standard update to EN 60079-0:2009; EN 60079-1:2007; EN 60079-31:2009  
Marking update.

**Marking (for both type ISEO1 and ISEO2)**

 II 2 G Ex d IIC T6 Gb  
 II 2 D Ex tb IIC T85°C Db

This extension and annexed descriptive documents must be annexed to the EC-Type Examination Certificate CESI 03ATEX101X.

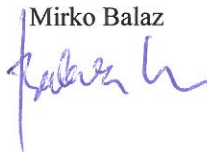
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**Date** 29<sup>th</sup>.06.2012 - Translation issued the 29<sup>th</sup>.06.2012

**Prepared**  
Guido Prazzoli



**Verified**  
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Fiorenzo Bregani

**CESI S.p.A.**  
Testing & Certification Division  
Business Area Certification  
// Responsabile  
Fiorenzo Bregani



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## EXTENSION n. 03/12

to EC-Type Examination Certificate CESI 03ATEX101X

### Electrical characteristics

*Unchanged*

Ambient temperature: from -20°C up to +55°C

Report n. EX- B2020648

### Routine tests

The manufacturer shall carry out the routine tests prescribed at clause 27 of the EN 60079-0 standard.

The grounding clamp type ISEO1 and ISEO2 enclosures have a free volume less than 10 cm<sup>2</sup>

### Descriptive documents (prot. EX-B2020655)

- Technical Note n. IT NTPIN, rev. 4 (pg. 5)	dated	18.06.2012
- Safety Instructions n. IT SAFPIN 1, rev.1 (pg.7)	dated	18.06.2012
- Safety Instructions n. IT SAFPIN 2, rev.2 (pg.7)	dated	18.06.2012
- Drawing label ISEO1 Atex n. 5271/4/C (pg.1)	dated	18.06.2012
- Drawing label ISEO2 Atex n. 5272/4/C (pg.1)	dated	18.06.2012

One copy of all documents is kept in CESI files.

### Special conditions for safe use (X)

The grounding clamp type ISEO1 and ISEO2 are adequate to ground charged elements having a potential not higher than 3kV.

The grounding clamp must be connected and used as show into the Safety Instructions.

### Essential Health and Safety Requirements

The Essential Health and Safety Requirements are assured by compliance to the following standards:

- EN 60079-0: 2009 - Explosive atmospheres – Part 0: Equipment – General requirements.
- EN 60079-1: 2007 - Atmosfere esplosive – Parte 1: Apparecchiature protette mediante custodie a prova d'esplosione "d".
- EN 60079-31: 2009 - Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t".

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