

# CESI

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iscrizione CCIAA 00793580150

Registro Imprese di Milano  
Sezione Ordinaria  
N. R.E.A. 426222  
P.I. IT00793580150

Schema di certificazione

# CESI-ATEX

Il CESI è stato autorizzato dal governo italiano ad operare quale organismo di certificazione di apparecchi e sistemi destinati a essere utilizzati in atmosfera potenzialmente esplosiva con D.M. 1/3/1983, D.M. 19/6/1990, D.M. 20/7/1998 e D.M. 27/9/2000.

ATEX EC-02

# CERTIFICATE



## EC-TYPE EXAMINATION CERTIFICATE

- [1] **Equipment or Protective System Intended for use in potentially explosive atmospheres**  
**Directive 94/9/EC**
- [2] EC-Type Examination Certificate number:  
**CESI 02 ATEX 096**
- [3] **Equipment:** Command, control and signalling units series CCA..., GUB..., CCA...E, CCAL...
- [4] **Manufacturer:** BARTEC NEDERLAND b. v.
- [5] **Address:** Keurmeesterstraat 17b, Ridderkerk (Netherlands)
- [6] This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- [7] 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-A2/031037.
- [8] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:  
**EN 50014: 1997 +A1...A2      EN 50018:2000      EN 50281-1-1:1999**
- [9] 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.
- [10] 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.
- [11] The marking of the equipment or protective system shall include the following:  
 II 2 GD EEx d IIC T6 or T5    IP 66    T85 or T100 °C

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

Date October 4<sup>th</sup>, 2002      Translation issued on October 4<sup>th</sup>, 2002

Prepared  
Mirko Balaz

Approved  
Ulisse Colombo

## CESI

CENTRO ELETTROTECNICO SPERIMENTALE ITALIANO  
Business Unit Certificazione

Il Responsabile

[13]

## Schedule

[14] **EC-TYPE EXAMINATION CERTIFICATE n. CESI 02 ATEX 096**

[15] **Description of equipment**

Command, control and signalling units series CCA..., GUB..., CCA...E, CCAI...

The enclosures of these units are made in aluminium or in stainless steel (see technical note A4-4116 annexed to this certificate).

The various items of the code show the size of the enclosure (volumes from 0.5 to 32 dm<sup>3</sup>), constructional modifications, the type of material used, the presence of glass windows.

The complete codes of all the units subject of this certificate are reported in the drawings GG.36.1 and CC.12.1 annexed to the certificate.

The enclosures of the command, control and signalling units are subject of the certificate of component CESI 02 ATEX 020 U. All the constructional details of the enclosures are reported in the drawings annexed to this certificate of component.

The types of electrical and electronic components installed inside the command, control and signalling units are reported in the technical note A4-4116 together with their electrical characteristics.

On the enclosures subject of this certificate, type M... and P... command and signalling operators as indicated in the certificate of component CESI 02 ATEX 002 U can be installed.

### Electrical characteristics

Rated voltage	24 ÷ 1000 V a.c.	12 ÷ 250 d.c.
Rated frequency	50 ÷ 60 Hz	---
Max. current in fuses and contacts	400 A	400 A
Ambient temperature	- 20 ÷ + 40 °C	
	- 20 ÷ + 55 °C	
Maximum lamp power	5 W for ambient temperature - 20 ÷ + 40 °C	
	3 W for ambient temperature - 20 ÷ + 55 °C	

Temperature class for category 2G, units:

T6 or T5 as a function of the enclosure dimension, ambient temperature and power dissipated inside the enclosure

Maximum surface temperature for category 2.D units:

T85 °C or T100°C as a function of the enclosure dimension, ambient temperature and power dissipated inside the enclosure

Degree of protection IP 66 (EN 60529 - 1991)

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## Schedule

[14] EC-TYPE EXAMINATION CERTIFICATE n. CESI 02 ATEX 096

[15] Description of equipment (follows)

Maximum values of the power which can be dissipated inside the enclosure GUB 04 having a volume of 31 dm<sup>3</sup>:

Ambient temperature	+ 40 °C		+55 °C	
	T6	T5	T6	T5
Temperature class				
Max. surface temperature [°C]	85	100	85	100
Dissipated power [W]	112	197	84	150

The maximum power which can be dissipated inside the enclosure and the maximum current on contacts and fuses are a function of enclosure size, of the temperature class (or of the maximum surface temperature for category 2.D units) and of the ambient temperature as specified in details in the documentation annexed to this certificate.

The accessories used for cable entry and for closing unused apertures shall guarantee a degree of protection IP 66 and shall be certified according to the standards EN 50014, EN 50018 and EN 50281-1-1.

The service temperature of windows and of signal and control operators shall not exceed 100 °C.

### Warning label

"Use screws of quality A2-70 according UNI 7323 with ultimate tensile strength of at least 700 N/mm<sup>2</sup>".

### Additional warnings

In case of enclosures including capacitors:  
"After de-energizing, wait 10 minutes before opening"

In case of enclosures of temperature class T5:  
"Use cables suitable for a temperature of 100 °C"

[16] Report n. EX-A2/031037

### Routine tests

The manufacturer shall carry out the routine tests prescribed at clause 24 of the EN 50014 standard.  
The routine overpressure test shall be carried out with the static method (clause 15.1.3.1 of EN 50018 standard) at the pressure of 13.5 bar.

[13]

## Schedule

[14] **EC-TYPE EXAMINATION CERTIFICATE n. CESI 02 ATEX 096**

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[16] **Report n. EX-A2/031037 (follows)**

**Descriptive documents (prot. EX-A2/031040)**

- n. A4-4116 Rev. 0 (3 p.)	dated 21.05.2002
- n. GG.36.1 Rev. 0	dated 21.05.2002
- n. CC.12.1 Rev. 0	dated 21.05.2002
- n. A4-4129 Rev. 0	dated 11.03.2002
- Safety instructions SAFETY GUB (5 p.)	dated 21.05.2002
- EC declaration of conformity	dated 21.05.2002

One copy of all documents is kept in CESI files.

[17] **Special conditions for safe use**

None.

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

Covered by standards.