



## 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 09 ATEX 023 X**
- [3] **Equipment: Micro-switches enclosure type Minibox GT**
- [4] **Manufacturer: G.T. ATTUATORI S.r.l.**
- [5] **Address: Viale Europa, 17  
20090 Cusago - MI**
- [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- A9015664.
- [8] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:  
**EN 61241-0 : 2006 EN 61241-1 : 2004**
- [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 2D Ex tD A21 IP66/67 T85°C

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

Date May 28 2009- Translation issued 28th May 2009

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**CESI** S.p.A.  
Divisione Energia  
"Area Tecnica Certificazione"  
Il Responsabile

[13]

## Schedule

[14]

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[15] **Description of equipment**

Minibox GT are equipment protected against dust, that perform the function of indicating the position of the actuator which they are installed on. Two different version of the enclosure are possible, the one with blind cover and the one with a transparent dome for the visual indication of the actuator state; in any case the devices installed inside the enclosure allow the dispatching of a suitable electric signal to the remote control station.

The position is read , by proximity sensors or micro-switches, according to the movement of special targets fastened to a shaft which comes out from the enclosure base and get connected to the actuator.

### Electrical characteristics

*Proximity sensors:*

Rated voltage	10÷30V
Rated current	100 mA
Ambient temperature	-20°C ÷ +70°C

*Micro-switches:*

Rated voltage	250V
Rated current	5A
Ambient temperature	-20°C ÷ +70°C

*Inductive sensors:*

Rated voltage	5÷25Vdc
Rated current	≤1 mA
Ambient temperature	-20°C ÷ +70°C -45°C ÷ +70°C

Ingress protection	IP66/67 (EN 60529: 1997)
ATEX category	II 2D
Protection mode marking	Ex tD A21 IP66/67 T85°C
Ambient temperature	-20°C ÷ +70°C -45°C ÷ +70°C (only for inductive sensors)

### Cables entries

The accessories, used for the cables entry and to close unused holes shall be certificated according to the standards EN 61241-0 and EN 61241-1 and guarantee a minimum protection degree IP 66/67 according to the standard EN 60529.

The joint between cable entry and enclosure, made by means of cylindrical threads, shall be guaranteed against loosening by using thread lock compound.

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## Schedule

[14]

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[16] Report n. EX- A9015664

### Routine tests

The manufacturer shall carry out the routine tests prescribed at paragraph 24 of the standard EN 61241-0.

### Descriptive documents (prot. EX- A9015708)

- Technical note (2 sheets)	dated 31/03/2008
- Safety Instructions rev. 00 (6 sheets)	dated 22/09/2008
- Drawing n. 11-0340	dated 12/05/2009
- Drawing n. 11-0344	dated 12/05/2009
- Drawing n. 90-0980	dated 22/02/2008
- Drawing n. 90-1036	dated 22/02/2008
- Drawing n. 90-1037	dated 22/02/2008
- Drawing n. 90-1038	dated 22/02/2008
- Drawing n. 90-1039	dated 22/02/2008
- Drawing n. 90-1040	dated 22/02/2008
- Drawing n. 90-1041	dated 22/02/2008
- Drawing n. 90-1043	dated 22/02/2008
- Drawing n. 21-3202	dated 25/10/2007
- Drawing n. 21-3219	dated 4/03/2008
- Drawing n. 21-3220	dated 4/03/2008
- Drawing n. 21-3364	dated 19/05/2009
- Drawing n. 21-3367	dated 4/03/2008
- Drawing n. 37-0059	dated 3/11/2008
- Drawing n. 37-0063	dated 27/05/2009
- Drawing n. 37-0064	dated 27/05/2009
- Drawing n. 37-0065	dated 28/05/2009
- Drawing n. 37-0066	dated 28/05/2009
- Drawing n. 13-0213	dated 17/10/2007

- Characteristics of the used materials (28 sheets)
- Facsimile EC declaration of conformity

One copy of all the documents above mentioned is kept in CESI files.

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

- Minibox GT have been tested against a low risk of mechanical danger, hence they have to be properly protected in case of higher risk.

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

Covered by standards fulfilment.