CESI

# CERTIFICATE

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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 14 ATEX 017X**

[4] Equipment: Socket devices series PY-… and plugs series SPY-…

[5] Manufacturer: **COR.TEM S.p.A.**

[6] Address: Via Aquileia 10 – 34070 Villesse (Gorizia- Italia)

[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-B4009084.

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
**EN 60079-0: 2012; EN 60079-1: 2007; EN 60079-31: 2009**

[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 2GD**
**Ex d IIC T6 Gb ;**
**Ex tb IIIC T76 °C Db**
**IP65**



**Date** 31/03/2014 Translation issued the 31/03/2014

| **Prepared** | **Verified** | **Approved** |
|---|---|---|
| Sergio Mezzetti | Mirko Balaz | Fiorenzo Bregani |

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Testing & Certification Division
Business Area Certification
*Il Responsabile*
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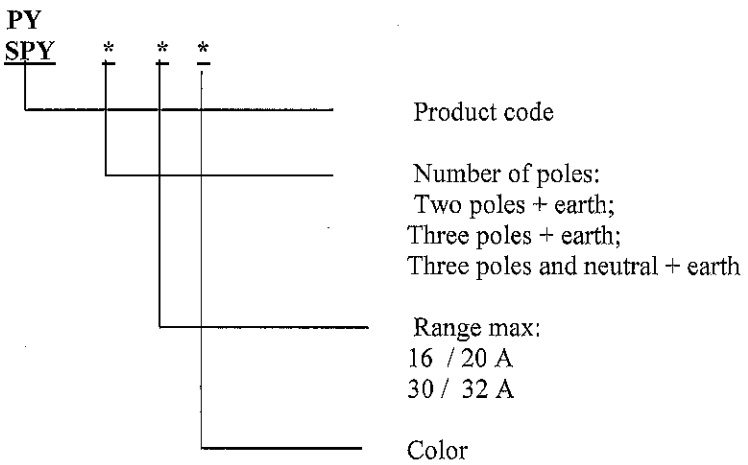
[13] **Schedule**

[14] **EC-TYPE EXAMINATION CERTIFICATE n. CESI 14 ATEX 017X**

[15] **Description of equipment**

The socket device series PY-... and plug series SPY-..., are suitable for cable connection in potentially explosive areas.
The PY.... series socket outlets are provided by interlock device, so the plug can be inserted when the switch is in "off" position and cannot be removed when the switch is in "on" position.
The PY... series socket outlets are composed of a body complete with two cable/conduit entries, a threaded cover and a coupling that contains the insulated socket with corresponding pins for various configurations.
The plug series SPY, is composed by a cylindrical body having threaded entry suitable for cable connection by means a cable gland or a certified stopping box.
A ring complete with gasket is located on the plug body for guaranteeing the mechanical coupling and the IP 65 degree of protection with the socked, once inserted.
When the plug is inserted the first pin making connection to the socket is the earth pin, when the plug is withdrawn the last pin making contact is the earth pin; this assembly characteristic ensures a ground connection always on.

The equipments series PY... – SPY... are identified by the following code:




*Electrical Characteristics*

| | |
|---|---|
| -Rated voltage: | 690 V |
| - Rated current: | 16/20 and 30/32A |
| - frequency max.: | 500 Hz |
| - N° of poles: | 2 poles + Earth<br>3 poles + Earth<br>3 poles + Neutral +Earth |
| - Degree of protection: | IP 65 |
| - Ambient temperature: | - 20 ÷ + 50 °C |

[13] **Schedule**

[14] **EC-TYPE EXAMINATION CERTIFICATE n. CESI 14 ATEX 017X**

[15] **Description of equipment (follows)**

***Temperature class and Max. surface temperature***

| | |
|---|---|
| Ambient Temperature | + 50°C |
| Temperature Class | T6 |
| Max. Surface Temperature | + 76 °C |

**Warning label**

On the cover of the socket
"Do not open when energized"

[16] **Report n.** EX-B4009084

**Routine tests**

The overpressure routine tests shall be carried out with static method, in compliance with paragraph 15.1.3.1 of the IEC 60079-1 standard, for 60 sec.at the following pressure values:
- 12.6 bar on the socket enclosure
- 6.8 bar on the plug enclosure

**Descriptive documents** (prot. EX-B4009087)

| | | | |
|---|---|---|---|
| - Technical note A4-5956 (5 pg.) | Rev. 0 | dated | 03/06/2013 |
| - Drawing n° A4-4951 | Rev. 1 | dated | 27/01/2010 |
| - Drawing n° A4-4952 | Rev. 2 | dated | 20/06/2012 |
| - Drawing n° A1-5952 | Rev. 0 | dated | 03/06/2013 |
| - Drawing n° A3-5953 | Rev. 0 | dated | 03/06/2013 |
| - Drawing n° A3-5954 | Rev. 0 | dated | 03/06/2013 |
| - Drawing n° A3-5955 | Rev. 0 | dated | 03/06/2013 |
| - Fac-simile CE Declaration of Conformity 0169 | | dated | 03/06/2013 |
| - Safety Instructions mod. F-389 (6 pg.) | Rev. 0 | dated | 03/06/2013 |
| - Data sheets of material (20 pg.) | | dated | 03/06/2013 |

One copy of all documents is kept in CESI files.

[13] **Schedule**

[14] **EC-TYPE EXAMINATION CERTIFICATE n. CESI 14 ATEX 017X**

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

- The condition of the installation of the Socket devices series PY-... and plugs series SPY-... are included within the safety instructions. For a safe use these assembling instructions are to be followed precisely.

- The flamepaths are specified in the manufacturer drawings. For information regarding the dimensions of the flameproof joints the manufacturer shall be contacted.

- The accessories used for cable entries into enclosures shall be subject of separate certification, suitable for type of protection Ex-d and Ex-tb and guarantee a minimum degree of protection IP 65 in compliance with the EN 60529 Standard.

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

The Health and Safety Requirements are assured by compliance with the following Standards:

| | |
|---|---|
| EN 60079-0 : 2012 | Explosive atmospheres. Part 0: General requirements |
| EN 60079-1 : 2007 | Explosive atmospheres. Part 1: Flameproof enclosures "d" |
| EN 60079-31: 2009 | Explosive atmospheres. Part 31:Protection by enclosure "t" |