



**TYPE APPROVAL CERTIFICATE**  
No. **ELE045823CS**

**This is to certify** that the product below is found to be in compliance with the applicable requirement of the RINA type approval system.

<i>Description</i>	<b>Enclosures</b>
<i>Type</i>	<b>Series ESA - ESX Series</b>
<i>Applicant</i>	<b>BARTEC F.N. Srl VIA MARIO PAGANO, 3 20090 Trezzano Sul Naviglio (MI) ITALY</b>
<i>Manufacturer</i>	<b>BARTEC F.N. Srl</b>
<i>Place of manufacture</i>	<b>VIA MARIO PAGANO, 3 20090 Trezzano Sul Naviglio (MI) ITALY</b>
<i>Reference standards</i>	<b>ESA-ESX empty enclosures: EN 60079-0:2018, EN 60079-7:2015+A1:2018, EN 60079-31: 2014; ESAnA-ESXnA enclosures type: EN 60079-0:2012/A11:2013; EN 60079-1:2014; EN 60079-7:2015; EN 60079-11:2012; EN 60079-15:2010; EN 60079-18:2015; EN 60079-31:2014; ESA-ESX Multipurpose enclosures: EN60079-0:2018; EN60079-1:2014; EN60079-7:2015/A1:2018; EN60079-11:2012; EN60079-18:2015/A1:2018; EN60079-31:2014</b>

*Issued in* **Genoa** on **March 31, 2023**. *This Certificate is valid until* **March 31, 2028**

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**RINA Services S.p.A.**  
**Luigi Benedetti**

This certificate consists of this page and 1 enclosure

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Series ESA - ESX Series

### Series ESA-ESX *Empty Enclosures*

#### Materials/Components:

These enclosures made in light alloy for type ESA... or stainless steel for the type ESX... are protected by increased safety "e" for gas atmospheres and protected by enclosure "tb" for dust atmospheres.  
The empty enclosure is covered by the component certificate INERIS 13 ATEX9028U.  
These Ex Components get the degrees of protection IP66 according to the EN 60529 Standard.

#### Enclosures type ESA or ESX (1)

##### Number of EC Type Examination Certificate:

INERIS 13ATEX9028U

##### Marking:

II 2 GD

Ex eb IIC Gb

Ex tb IIC Db IP66 or IP65

(1) This is completed by numbers and/or letters corresponding to manufacturing variations.

##### Safety Standard:

EN60079-0:2018; EN60079-7:2015+A1:2018; EN60079-31:2014

##### Reference:

EU-Type Examination certificate INERIS 13ATEX9028U (28/07/2020)

### Series ESA - ESX *Multipurpose Enclosures*

Enclosures type ESA... or ESX... (1) are intended to receive connecting terminals of certified types or a set of coppers bars and/or some electrical components covered by ATEX certificates.

#### A - Enclosures "Ex eb" and "tb" fitted only with terminals or bars:

##### Number of EU Type Examination Certificate: INERIS 02ATEX0067X

##### Marking:

II 2G Ex eb (2) IIB or IIC T6 or T5 or T4 or T3 Gb

II 2D Ex tb IIC T85°C or T100°C or T135°C or T200°C Db IP66 or IP65

...°C ≤ Tamb ≤ ...°C (3)

T.cable = (4)

(Rated voltage and rated current and/or rated power)

##### Warning: do not open when energized

(1) Type is completed by numbers corresponding to the size of the enclosure

(2) The marking code Ex could be completed by the indication of the type of protection "ia" in accordance with the type of terminals inside the enclosures.

(3) Indication of the range of ambient temperature if different from -20°C to +40°C (max ambient temperature range from -60°C to +100°C for enclosures with bars and -60°C to +160°C for enclosures with terminals).

(4) Indication when the temperature is higher than +70°C

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**Series ESA - ESX Series**

**B - Enclosures "Ex eb" and "tb" fitted only with terminals and components:**

**Number of EU Type Examination Certificate: INERIS 02ATEX0067X**

**Marking:**

**II 2G Ex eb (2) IIB or IIC T6...T4 Gb**

**II 2D Ex tb IIC T85°C...T135°C Db IP66 or IP65**

**...°C ≤ Tamb ≤ ...°C (3)**

**T.cable = (4)**

(Rated voltage and rated current and/or rated power)

**Warning: do not open when energized**

(1) Type is completed by numbers corresponding to the size of the enclosure

(2) The marking code Ex is completed by the indication of the type of protection of the component installed in the enclosure in the alphabetical order.

(3) Indication of the range of ambient temperature if different from -20°C to +40°C (max ambient temperature range from -60°C to +60°C).

(4) Indication when the temperature is higher than +70°C

**C - Enclosures "Ex tb" only for dust protection:**

**Number of EU Type Examination Certificate: INERIS 02ATEX0067X**

**Marking:**

**II 2D Ex tb IIC T85°C...T135°C Db IP66 or IP65**

**...°C ≤ Tamb ≤ ...°C (2)**

**T.cable = (3)**

(Rated voltage and rated current and/or rated power)

**Warning: do not open when energized**

(1) Type is completed by numbers corresponding to the size of the enclosure

(2) Indication of the range of ambient temperature if different from -20°C to +40°C (max ambient temperature range from -60°C to +60°C).

(3) 90°C for T100°C or 120 for T135°C

**Safety Standard:**

EN60079-0:2018; EN60079-1:2014; EN60079-7:2015/A1:2018; EN60079-11:2012; EN60079-18:2015/A1:2018; EN60079-31:2014

**Reference documents:**

IECEX Certificate of conformity n°IECEX INE 11.0016X (23/12/2021)

EU-Type examination certificate INERIS 02ATEX0067X

**Series ESAnA-ESXnA**

**Enclosures**

Enclosures made in light alloy for the type **ESAnA...** or in stainless steel for the type **ESXnA...(1)** are protected by increased safety "ec" and protected by enclosure "tc" for dust atmosphere.

Enclosures, protected by increased safety "ec", are intended to received terminals/bus bar/electrical devices covered by separated ATEX certificates. Enclosures, protected by enclosure "tc", are intended to receive the same equipment listed above and/or electrical components not covered by an ATEX certificate.

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Series ESA - ESX Series

### A - Enclosures "Ex ec" and "tc" fitted only with terminals or bars:

Number of EU Type Examination Certificate: INERIS 13ATEX3004X

#### Marking:

Ex ec (2) IIB or IIC T6 or T5 or T4 or T3 Gc

Ex tc IIIC T85°C or T100°C or T135°C or T200°C Dc IP66 or IP65

...°C ≤ Tamb ≤ ...°C (3)

T.cable = (4)

(Rated voltage and rated current and/or rated power)

#### Warning: do not open when energized

(1) Type is completed by numbers corresponding to the size of the enclosure

(2) The marking code Ex could be completed by the indication of the type of protection "ia", "ib" or "ic" in accordance with the type of terminals inside the enclosures.

(3) Indication of the range of ambient temperature if different from -20°C to +40°C

(4) Indication when the temperature is higher than +70°C

### B - Enclosures "Ex ec" and "tc" fitted with terminals and components:

Number of EU Type Examination Certificate: INERIS 13ATEX3004X

#### Marking:

Ex (2) ec (3) IIB or IIC T6 or T5 or T4 Gc

Ex tc (4) IIIC T85°C or T100°C or T135°C Dc IP66 or IP65

...°C ≤ Tamb ≤ ...°C (5)

T.cable = (6)

(Rated voltage and rated current and/or rated power)

#### Warning: do not open when energized

(1) Type is completed by numbers corresponding to the size of the enclosure

(2) The marking code Ex is completed by the indication of the type of protection of the component installed in the enclosure in the alphabetical order.

(3) When the enclosure is fitted with intrinsic safety element: [ia IIA or IIB or IIC Ga] or [ib IIA or IIB or IIC Gb] or [ic IIA or IIB or IIC]

(4) When the enclosure is fitted with intrinsic safety element: [ia Da] or [ib Db] or [ic]

(5) Indication of the range of ambient temperature if different from -20°C to +40°C

(6) Indication when the temperature is higher than +70°C

### C - Enclosures "Ex tc" only for dust protection:

Number of EU Type Examination Certificate: INERIS 13ATEX3004X

#### Marking:

Ex tc IIIC T85°C or T100°C or T135°C or T200°C Dc IP66 or IP65

...°C ≤ Tamb ≤ ...°C (2)

T.cable = (3)

(Rated voltage and rated current and/or rated power)

#### Warning: do not open when energized

(1) Type is completed by numbers corresponding to the size of the enclosure

(2) Indication of the range of ambient temperature if different from -20°C to +40°C

(3) 90°C for T100°C or 120 for T135°C or 200°C for T200°C

#### Safety Standard:

EN60079-0:2012/A11:2013; EN60079-1:2014; EN60079-7:2015; EN60079-11:2012; EN60079-15:2010;

EN60079-18:2015; EN60079-31:2014

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**Series ESA - ESX Series**

**Reference documents:**

IECEX Certificate of conformity n°IECEX INE 13.0014X (23/12/2021)

EU-Type examination certificate INERIS 13ATEX3004X

**General remarks:**

Reference ambient temperature on board is 45°C; safety parameters to be considered accordingly.

Sign U. when it is placed following Number of the EU Type Examination Certificate, indicates this one should not be wrongly considered as an EU type examination certificate delivered for equipment or protective system.

This partial certification may be used as a basis for the certification of the equipment or protective system.

Installation, use and maintenance to be in accordance with the Manufacturer Instructions and the above mentioned Type Examination Certificate requirements.

**Genoa 31/03/2023**