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CERTIFICATE

[1] SUPPLEMENTARY EU-TYPE EXAMINATION CERTIFICATE

[2] **Equipment or Protective System intended for use in potentially explosive atmospheres Directive 2014/34/EU**

[3] Supplementary EU-Type Examination Certificate number:

CESI 01 ATEX 027X /11

[4] Product: **Command, control and signalling units EJB.. series (and AQS-1 model)**

[5] Manufacturer: **CORTEM S.p.A**

[6] Address: **Via Aquileia, 10 - 34070 Villesse (Gorizia) - Italy**

[7] This supplementary certificate extends EU–Type Examination Certificate **CESI 01 ATEX 027X** to apply to Product designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

[8] CESI, notified body n. 0722 in accordance with Article 17 of the Directive 2014/34/EU of the Parliament and Council of 26 February 2014, certifies that this Product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment or 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-C2011043**.

[9] In accordance with Article 41 of Directive 2014/34/EU, EC-Type Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Supplementary certificates to such EC-Type Examination Certificates, and new issues of such certificates, may continue to bear the original certificate number issued prior to 20 April 2016.

[10] If the sign "X" is placed after the certificate number, it indicates that the Product in subject to special conditions for safe use specified in the schedule to this certificate.

[11] This EU-TYPE EXAMINATION CERTIFICATE relates only to the design, examination and tests of the specified Product in accordance to the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this Product. These are not covered by this certificate.

[12] The marking of the Product shall include the following:

Ex	**I M2**	**Ex db I Mb**	*(EJBX.. stainless steel Equipment only)*
Ex	**II 2G**	**Ex db IIB T6** *or* **T5** *or* **T4 Gb**	*or* **Ex db IIB+H_2 T6** *or* **T5** *or* **T4 Gb**
Ex	**II 2GD**	**Ex db IIB T6** *or* **T5** *or* **T4 Gb** **Ex tb IIIC T85°C** *or* **T100°C** *or* **T135°C Db** **IP66** *or* **IP66/67**	*or* **Ex db IIB+H_2 T6** *or* **T5** *or* **T4 Gb** **Ex tb IIIC T85°C** *or* **T100°C** *or* **T135°C Db** **IP66** *or* **IP66/67**

Date 17/05/2024 - Translation issued the 17/05/2024

Prepared	**Verified**	**Approved**
Adrián Lucas Vagni	Alessandro Fedato	Roberto Piccin

Schema di certificazione CESI-ATEX

ACCREDIA
PRD N. 018B
Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC
Signatory of EA, IAF and ILAC Mutual Recognition Agreements

[13] # Schedule

[14] **SUPPLEMENTARY EU-TYPE EXAMINATION CERTIFICATE n. CESI 01 ATEX 027X /11**

[15] **Description of the variation to the Product**

Variation 11.1: These **Command, control and signalling units EJB.. series (and AQS-1 model)** previously assessed in compliance with EN 60079-0:2012+A11:2013 have been re-assessed on the basis of the new edition of EN IEC 60079-0:2018 Standard.

Variation 11.2: Extended the ambient temperature up to +70 °C.

Variation 11.3: The enclosures can be supplied with interna/external coating and ECD-2 valves.

Variation 11.4: Minor mechanical changes were applied.

Variation 11.5: Certified accessories admitted for cable entries and for connection of other units were added.

Unchanged the other constructional characteristics of the Equipment **Command, control and signalling units EJB.. series (and AQS-1 model)**.

Description of Product

The Equipment **Command, control and signalling units EJB.. series (and AQS-1 model)** are equipment composed by an Ex db flameproof enclosure scope of separated Ex-component certificate CESI 00 ATEX 036U, used to install common electrical devices such as contactors, switches, measuring instruments, programmable logic controllers, pilot lights, contact blocks, command and signalling actuators mounted on the cover or on the enclosure walls, transparent glass windows sealed on the cover to permit instrument reading, breathing and draining valves (CESI 01 ATEX 081U), etc.

The Equipment have the body and the cover made in aluminium alloy or stainless steel and are in Ex db I (stainless steel only), Ex db IIB, Ex d IIB+H_2 and Ex tb IIIC execution and can be painted with internal anticondensation painting.

The Equipment is available in two particular executions:

- with external flange for series EJB-..;
- with internal flange for model AQS-1.

Gaskets between cover and body flanged joint and for all other accessories are made in silicon and they guarantee the protection degree IP66 while IP67 for Equipment without control-signal operators only.

The flanged joint between the body of the Equipment and the covers are fixed with quality A2-70 stainless steel screws.

The walls of the Equipment can be drilled and threaded with maximum size and maximum number of hubs as specified in the manufacturer documents annexed. Each Equipment is provided with internal and external earthing screw or bolt.

Ambient temperature

- For all Group I EJBX (made in stainless steel only), Group II and Group III Equipment:

  -20 °C ÷ +40 °C *or* -20 °C ÷ +55 °C

- For all Group IIB, Group IIB+H_2 and Group IIIC Equipment with polycarbonate pilot lights:

  -40 °C ÷ +40 °C or -40 °C ÷ +55 °C or -40 °C ÷ +70 °C

- For all Group IIB, Group IIB+H2 and Group IIIC Equipment without polycarbonate pilot lights:

  -60 °C ÷ +40 °C or -60 °C ÷ +55 °C or -60 °C ÷ +70 °C

In all cases, if control-signal operators are installed, they must be suitable for the temperature assigned to the Equipment.

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[14] **SUPPLEMENTARY EU-TYPE EXAMINATION CERTIFICATE n. CESI 01 ATEX 027X /11**

*Identification of **Command, control and signalling units EJB.. series (and AQS-1 model)**:*

Aluminium alloy Equipment		**Stainless steel Equipment**
EJB series	**EJBT series**	**EJBX series**
AQS-1	-	-
EJB-01	EJBT0	EJBX-01
-	-	EJBX-01B
EJB-1	EJBT1	EJBX-1
EJB-2	EJBT2	EJBX-2
-	EJBT2CB	-
-	EJBT2C	-
EJB-3	EJBT3	EJBX-3
EJB-3B	EJBT3B	EJBX-3B
EJB-4	EJBT4	EJBX-4
EJB-4B	EJBT4B	EJBX-4B
EJB-45	EJBT45	EJBX-45
EJB-45B	EJBT45B	EJBX-45B
EJB-48BA	-	-
EJB-5	EJBT5	EJBX-5
EJB-5B	EJBT5B	EJBX-5B
EJB-55	EJBT55	EJBX-55
EJB-55B	EJBT55B	EJBX-55B
EJB-503	-	-
EJB-55C	-	-
EJB-6	EJBT6	EJBX-6
EJB-6B	EJBT6B	EJBX-6B
EJB-7	EJBT7	EJBX-7
EJB-7B	-	-

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[14] **SUPPLEMENTARY EU-TYPE EXAMINATION CERTIFICATE n. CESI 01 ATEX 027X /11**

Electrical characteristics

Rated voltage:	12 ÷ 250	Vdc
	24 ÷ 1000	Vac
Nominal frequency:	50/60	Hz
Max. rated current:	650	A
Maximum power for lamps:	3W with Tamb. +55 °C	

Ex db flameproof enclosure EJB-45, EJB-5, EJB-5B, EJB-55B sizes restrictions:

Rated voltage:	750	Vdc
Max. rated current:	630	A

Ex db flameproof enclosure EJB-55, EJB-6, EJB-6B, EJB-7, EJB-7B sizes restrictions:

Rated voltage:	690	Vac
Nominal frequency:	50/60	Hz
Max. rated current:	1000	A

Table of typical electrical and electronic Equipment inside the boxes:

DESCRIPTION	[V]	DISSIPATED POWER [W]	[A]
Analogical digital instruments	660	10	5
Electronic gear case	400	10	-
PLC, multiplexer, amplifier	240	80	-
Control and gauging device	240	100	-
Automatic breakers	660	-	650
Fuses	660	-	400
Air thermal relays	500	12	10
Electronic control device	660	100	-
Air contactors	660	30	650
Sequence timer	240	5	10
Photoelectrical cell	240	2	-
Capacitors (discharge time 30 sec)	660	-	-
Transformers	660	200	-
Resistors	240	300	-
Terminals	660	-	-
Ballasts	277	40	7.5

The ratings specified are maximum values, actual values will be subject to the electrical equipment/component used from case to case. Depending on the system conditions, the mode of operation, the utilization category, etc., the manufacturer will define ratings which will be within the range of these limiting values and will comply with the relevant Standards.

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[14] **SUPPLEMENTARY EU-TYPE EXAMINATION CERTIFICATE n. CESI 01 ATEX 027X /11**

Maximum dissipated power:

Table 1.

Type			Maximum dissipated power inside enclosure			
			Tamb. = +40 °C			
Aluminium alloy		Stainless steel	no signalling lamps (only LEDs are allowed)		with lamps and/or LEDs	without signalling lamps and LEDs
			T6 / T85 °C	T5 / T100 °C	T5 / T100 °C	T4 / T135 °C
EJBT0 / EJBT2CB	EJB-01	-	30 W	45 W	30 W	100 W
EJBT1 / EJBT2C	EJB-1	EJBX-1	45 W	65 W	45 W	140 W
EJBT2	EJB-2	EJBX-2	60 W	85 W	60 W	190 W
EJBT3	EJB-3	EJBX-3	75 W	110 W	75 W	245 W
EJBT3B	EJB-3B	EJBX-3B	55 W	80 W	55 W	180 W
EJBT4	EJB-4	EJBX-4	100 W	175 W	100 W	350 W
EJBT4B	EJB-4B	EJBX-4B	75 W	130 W	75 W	260 W
EJBT45	EJB-45	EJBX-45	140 W	240 W	140 W	480 W
EJBT45B	EJB-45B	EJBX-45B	120 W	210 W	120 W	430 W
-	EJB-48BA	-	120 W	210 W	120 W	430 W
EJBT5	EJB-5	EJBX-5	210 W	315 W	210 W	600 W
EJBT5B	EJB-5B	EJBX-5B	170 W	250 W	170 W	480 W
-	EJB-503	-	230 W	345 W	230 W	660 W
EJBT55	EJB-55	EJBX-55B	260 W	380 W	260 W	740 W
EJBT55B	EJB-55B	-	260 W	380 W	260 W	740 W
-	EJB-55C	EJB-55	360 W	550 W	360 W	1050 W
EJBT6	EJB-6	EJBX-6	600 W	910 W	600 W	1740 W
EJBE-6B	EJB-6B	EJBX-6B	490 W	720 W	490 W	1390 W
-	EJB-7	-	770 W	1170 W	770 W	2270 W
-	EJB-7B	-	600 W	910 W	600 W	1740 W
-	-	EJBX-7	610 W	930 W	610 W	1780 W
-	AQS-1	-	100 W	150 W	100 W	280 W

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[14] **SUPPLEMENTARY EU-TYPE EXAMINATION CERTIFICATE n. CESI 01 ATEX 027X /11**

Table 2.

Type			Maximum dissipated power inside enclosure			
			Tamb. = +55 °C			
Aluminium alloy		Stainless steel	no signalling lamps (only LEDs are allowed)		with lamps and/or LEDs	without signalling lamps and LEDs
			T6 / T85 °C	T5 / T100 °C	T5 / T100 °C	T4 / T135 °C
EJBT0 / EJBT2CB	EJB-01	-	25 W	40 W	25 W	80 W
EJBT1 / EJBT2C	EJB-1	EJBX-1	34 W	50 W	34 W	105 W
EJBT2	EJB-2	EJBX-2	45 W	65 W	45 W	142 W
EJBT3	EJB-3	EJBX-3	56 W	82 W	56 W	184 W
EJBT3B	EJB-3B	EJBX-3B	40 W	60 W	40 W	135 W
EJBT4	EJB-4	EJBX-4	75 W	130 W	75 W	262 W
EJBT4B	EJB-4B	EJBX-4B	56 W	100 W	56 W	195 W
EJBT45	EJB-45	EJBX-45	105 W	180 W	105 W	360 W
EJBT45B	EJB-45B	EJBX-45B	90 W	160 W	90 W	320 W
-	EJB-48BA	-	90 W	160 W	90 W	320 W
EJBT5	EJB-5	EJBX-5	160 W	235 W	160 W	450 W
EJBT5B	EJB-5B	EJBX-5B	130 W	190 W	130 W	360 W
-	EJB-503	-	176 W	255 W	176 W	495 W
EJBT55	EJB-55	EJBX-55B	200 W	300 W	200 W	565 W
EJBT55B	EJB-55B	-	160 W	235 W	160 W	450 W
-	EJB-55C	EJB-55	270 W	400 W	270 W	765 W
EJBT6	EJB-6	EJBX-6	460 W	680 W	460 W	1300 W
EJBE-6B	EJB-6B	EJBX-6B	370 W	550 W	370 W	1040 W
-	EJB-7	-	590 W	890 W	590 W	2090 W
-	EJB-7B	-	460 W	680 W	460 W	1300 W
-	-	EJBX-7	470 W	690 W	470 W	1310 W
-	AQS-1	-	75 W	110 W	75 W	205 W

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[14] **SUPPLEMENTARY EU-TYPE EXAMINATION CERTIFICATE n. CESI 01 ATEX 027X /11**

Table 3.

Type			Maximum dissipated power inside Equipment			
			Tamb. = +70 °C			
Aluminium alloy		Stainless steel	no signalling lamps, only LEDs are allowed		with lamps and/or LEDs	without signalling lamps and LEDs
			T6 / T85 °C	T5 / T100 °C	T5 / T100 °C	T4 / T135 °C
EJBT0 / EJBT2CB	EJB-01	-	20 W	35 W	20 W	60 W
EJBT1 / EJBT2C	EJB-1	EJBX-1	23 W	35 W	23 W	70 W
EJBT2	EJB-2	EJBX-2	30 W	45 W	30 W	94 W
EJBT3	EJB-3	EJBX-3	37 W	54 W	37 W	123 W
EJBT3B	EJB-3B	EJBX-3B	25 W	40 W	25 W	90 W
EJBT4	EJB-4	EJBX-4	50 W	85 W	50 W	174 W
EJBT4B	EJB-4B	EJBX-4B	37 W	70 W	37 W	130 W
EJBT45	EJB-45	EJBX-45	70 W	120 W	70 W	240 W
EJBT45B	EJB-45B	EJBX-45B	60 W	110 W	60 W	210 W
-	EJB-48BA	-	60 W	110 W	60 W	210 W
EJBT5	EJB-5	EJBX-5	110 W	155 W	110 W	300 W
EJBT5B	EJB-5B	EJBX-5B	90 W	130 W	90 W	240 W
-	EJB-503	-	122 W	165 W	122 W	330 W
EJBT55	EJB-55	EJBX-55B	140 W	220 W	140 W	390 W
EJBT55B	EJB-55B	-	110 W	155 W	110 W	300 W
-	EJB-55C	EJB-55	180 W	250 W	180 W	480 W
EJBT6	EJB-6	EJBX-6	320 W	450 W	320 W	860 W
EJBE-6B	EJB-6B	EJBX-6B	250 W	380 W	250 W	690 W
-	EJB-7	-	410 W	610 W	410 W	1910 W
-	EJB-7B	-	320 W	450 W	320 W	860 W
-	-	EJBX-7	330 W	450 W	330 W	840 W
-	AQS-1	-	50 W	70 W	50 W	130 W

[13] **Schedule**

[14] **SUPPLEMENTARY EU-TYPE EXAMINATION CERTIFICATE n. CESI 01 ATEX 027X /11**

Cable Entries

The accessories used for the cable entries and to close the unused holes, shall be subject of a separate certification, shall be used according to the Safety Instructions reported in the relevant certificate and shall guarantee the same type/degree of protection assigned to the Equipment. Moreover, the accessories shall be suitable to be use in the ambient temperature range assigned to the Equipment.

In case of cylindrical threads, the coupling shall be locked against loosening using thread-lock compound.

In addition, certified sealing fittings or sealing bushings can be used for cable entries and for connection of other units. To facilitate the installation of the sealed joints, certified conduit fittings can be used. The certified accessories admitted are as follows:

- sealing fittings EYS, EYD, EZS, EZD series certified CESI 03 ATEX 085X;
- sealing bushings NPS, CP, TP, NCS, LPS series certified CESI 01 ATEX 080U;
- three pieces conduit unions R, B, RB series certified CESI 99 ATEX 034U;
- nipples NP, sleeves EM and elbow ELF series certified CESI 01 ATEX 104U;
- adaptors RE REB REM REN series and plugs PLG certified CESI 02 ATEX 049X.

The operating temperature limits of Ex certified accessories admitted, shall be duly observed during command, control and signal unit EJB Equipment mounting.

Furthermore, the different types of protection of the equipment enclosures connected by means of these Ex certified accessories shall be duly fulfilled.

Warning labels

"Use screws of quality A2-70 with tensile strength of at least 700 N/mm^2."

"Warning - do not open when energized."

For equipment with capacitors:

"After de-energizing, wait 10 minutes before opening".

For equipment with batteries or cells:

"Warning – Do not open when an explosive atmosphere is present".

For equipment with temperature class T5:

"Use cables suitable for temperature of 90 °C".

For equipment with temperature class T4:

"Use cables suitable for temperature of 100 °C".

For products complete with external coating in non-metallic material with a thickness:

> 0.2 mm for IIB+H_2 execution or

> 2 mm for IIB execution.

"Warning – Potential electrostatic charging hazard – for cleaning use only a damp cloth"

[13] **Schedule**

[14] **SUPPLEMENTARY EU-TYPE EXAMINATION CERTIFICATE n. CESI 01 ATEX 027X /11**

[16] **Report n. EX-C2011043**

Routine tests

The manufacturer shall carry out the routine tests prescribed at paragraph 16 of the EN 60079-1:2014 standard.

The routine overpressure test shall be carried out with the static method (paragraph 15.2.3 of the EN 60079-1:2014 standard) with the following pressure values:

- 12.3 bar on all EJB Equipment for minimum ambient temperature until -20 °C;
- 12.3 bar on all EJBX Equipment for minimum ambient temperature until -20 °C;
- 14.9 bar on all EJB Equipment for minimum ambient temperature until -40 °C;
- 15.2 bar on all EJBX Equipment for minimum ambient temperature until -40 °C;
- 16.4 bar on all EJB Equipment for minimum ambient temperature until -60 °C;
- 17.0 bar on all EJBX Equipment for minimum ambient temperature until -60 °C.

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

- The accessories used for cable entries and for closing unused openings shall be certified according to EN IEC 60079-0, EN 60079-1 and EN 60079-31. A minimum degree of protection IP66/67 shall be guaranteed according to EN 60529 standard.
- The Equipment shall be used in the following ambient temperature range:
  - o from -20°C up to +40°C/+55°C: all versions of Equipment for Group I EJBX.. (made in stainless steel only), Group IIB, Group IIB+H_2 and Group IIIC;
  - o from -40°C up to +40°C/+55°C/+70°C: all versions of Equipment for Group IIB, Group IIB+H_2 and Group IIIC with polycarbonate pilot lights;
  - o from -60°C up to +40°C/+55°C/+70°C: all versions of Equipment for Group IIB, Group IIB+H_2 and Group IIIC without polycarbonate pilot lights.
- The operating temperature limits of Ex accessories used for connection of more command, control and signal unit EJB series, shall be duly observed.
- The minimum distance between flameproof flanged joint of the enclosure and external obstacle should be:
  - o 20 mm for IIB execution:
  - o 30 mm for IIB+H_2 execution.
- For radio application the antenna shall be installed in safe area or it shall respect one of the specific type of protection indicated in EN IEC 60079-0 and installed according to EN 60079-14.

  If the radio antenna is installed into the Ex db enclosure it shall respect the following characteristics:
  - o Radio frequency: from 9 KHz to 60 GHz

  Threshold power, effective output power of the transmitter multiplied by the antenna gain:
  - o for group IIB = 3.5 W;
  - o for group IIB+H_2 = 2.0 W.

  Thermal initiation time:
  - o for group IIB = 80 µs;
  - o for group IIB+H_2 = 20 µs.

  For pulsed radar and other transmissions where the pulses are not short compared with the thermal initiation time, the threshold energy values shall not exceed those given follow:
  - o for group IIB = 250 µJ;
  - o for group IIB+H_2 = 50 µJ.

[13] **Schedule**

[14] **SUPPLEMENTARY EU-TYPE EXAMINATION CERTIFICATE n. CESI 01 ATEX 027X /11**

Conditions of manufacture

- For ignition transformers application, the following electrical characteristics are admitted:
  - o Primary voltage: 1000 V max.
  - o Secondary voltage: 20 kV (impulse 25 kV max for 3 msec.).
  - o Secondary current: 50 mA.
- For power transformer applications (only EJB-7 type) are admitted installation of single-phase or three-phase transformers having the maximum dissipated power (W) lower than the maximum dissipated power admitted in Table 1 and Table 2.

  Furthermore, the box type EJB-7 is suitable also for installation of three -phase power transformer with maximum power of 15 kVA.
- For motor inverter application, the following configuration are admitted:

Enclosure Size	Motor inverter max. power [kW]		Max. dissipated power [W]	Max. Cooling fan flowrate [m^3/h]
	T_a +40 °C	T_a +55 °C		
EJB-4	2.2	1.5	73	44
EJB-45	2.2	1.5	73	44
EJB-5	5.5	4.0	172	44
EJB-6	7.5	5.5	232	88
EJB-7	7.5	5.5	323	88

- For surge protective devices application, the following configuration are admitted:

PDR type	Max. protection [kA]	Protection Breaker (C curve type) [A]
PDR65	65	50
PDR40	40	40
PDR20	20	25
PDR8	8	20

- On the Equipment types EJB -55, EJB -6, EJB 6B, EJB -7, EJB -7B can be installed MCCB (MOLDED CASE CIRCUIT BREAKER) automatic breakers or on load isolator switches, three or four poles for rated current from 800 A up to 1000 A.
- On the bigger sizes of Equipment type EJB-45, EJB -5, EJB-5B, EJB-55, EJB-55B, EJB -6, EJB 6B, EJB -7, EJB-7B can be installed MCCB automatic breakers or on load isolator switches, three or four poles for rated current up to 630 A suitable for DC circuits with rated voltage up to 750 VDC.

  o MCCB size 630 A is suitable for max current 630 A at max voltage 360 VDC at ambient temperature +40°C or derated to 500 A for an ambient temperature of +55 °C at maximum voltage 500 VDC.

o MCCB size 800 A is derated for max current 630 A at max voltage 750 VDC for ambient temperature of +55°C.

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[14] **SUPPLEMENTARY EU-TYPE EXAMINATION CERTIFICATE n. CESI 01 ATEX 027X /11**

[18] **Essential Health and Safety Requirements**
Compliance with the Essential Health and Safety Requirements is not affected by this variation.

EHSR are assured by compliance with safety conditions and by compliance with the following standards:

EN IEC 60079-0:2018	Explosive atmospheres - Part 0: Equipment - General requirements
EN 60079-1:2014	Part 1: Equipment protection by flameproof enclosures "d"
EN 60079-31:2014	Part 31: Equipment dust ignition protection by enclosure 't'

[19] **Descriptive documents** (prot. EX-C2011046)

* A4-7851 Technical note (9 pg.) Rev.0	dated	09/02/2022
* F-276C Safety, maintenance and mounting instructions (9 pg.) Rev.4	dated	09/02/2022
* A3-6281 Drawing (7 pg.) Rev.1	dated	09/02/2022
- A3-6583 Drawing Rev.0	dated	19/07/2016
- A3-8159 Drawing (3 pg.) Rev.0	dated	14/01/2016
- A4-4129 Drawing (2 pg.) Rev.2	dated	25/01/2013

*Note: an * is placed before the title of documents which are new or revised, annexed to this supplement.*
One copy of all documents mentioned above is kept in CESI files.

Certificate history

Issue N.	Issue Date	Summary description of variation
00	12/04/2001	First Issue of the Certificate.
01	26/06/2002	New CCFE-01 and AQS.-1 and AQSE-1 types were added. New category II2GD for gases and dusts and use of rectangular glass windows. Max. current admitted on contacts 650A.
02	08/06/2005	Mounting of ignition transformers.
03	06/02/2008	Updating to standards EN 60079-0 (2006), EN60079-1 (2004) and EN 61241-0 (2006), EN 61241-1 (2004). New characteristics for ignition transformers. New models of box type EJB.. and EJBX.., new exec. IIB+H2.
04	04/06/2008	Installation of RX unit and IBUC unit into EJB-6 enclosure type.
05	26/04/2010	Updating to standard EN 60079-1: 2007. New sizes type EJB-7 and EJB-7B were added, new minimum ambient temperature -50°C. Installation of batteries, inverters, surge protective devices, power transformers and of radio frequency sources inside the boxes. Use of sealed cable glands for fiber optic cables. New exec. IM2 Ex d I (for stainless steel enclosure only).
06	06/04/2012	Updating to standards EN60079-0:2009, EN60079-1:2007 and EN60079-31:2009. New size EJB-55B has been added, updating to EJB-55 and EJB-55C codes.
07	31/05/2012	New type of equipment named PDTrac Monitoring device has been added.
08	15/05/2013	New type of equipment named Surge Protection Device.
09	23/02/2015	New MCCB automatic breakers or on load isolator switches (MOLDED CASE CIRCUIT BREAKER) has been added.
10	28/10/2016	Updating to standards EN 60079-0: 2012 + A11:2013, EN60079-1:2014 and EN60079-31:2014. New minimum ambient temperature -60°C. New enclosures type EJBX-01 and EJBT... series have been added. Special condition for safe use have been added.
11	17/05/2024	Standard update to EN IEC 60079-0:2018. Extended the ambient temperature up to +70 °C. New minimum ambient temperature -20 °C, -40 °C, -60 °C. Added external/internal coating and valves ECD-2, Minor mechanical changes were applied and Certified accessories admitted for cable entries and for connection of more units were added.