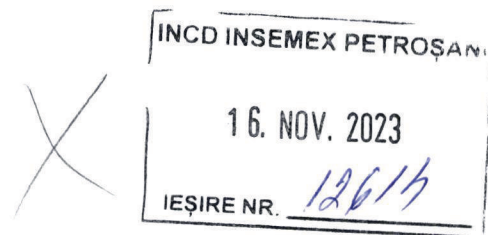




MINISTRY OF RESEARCH, INNOVATION AND DIGITALIZATION
NATIONAL INSTITUTE FOR RESEARCH AND DEVELOPMENT
IN MINE SAFETY AND PROTECTION TO EXPLOSION – INSEMEX PETROȘANI
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Ref. your address no. F.N./ 2023

INSEMEX no. 6728/ 2023

Ref. our tech. File 111/ 2023

SERVICIUL PENTRU CERTIFICARE ECHIPAMENTE Ex - SECEEEx

Contract nr. 6335/ 2023 - 2024

Vă trimitem anexat Certificatul de Examinare UE de tip / we send you enclosed the EU Type Examination Certificate, **INSEMEX-OEC.ATEX.23.0332X** pentru „Cutii cu aparataj tip / Instrument boxes types **EJB – 1S, EJB – 28, EJB – 28A, EJB – 28B, EJB – 28C, EJB – 1A, EJB – 1B, EJB – 1C, EJB – 2, EJB – 3, EJB – 5, EJB – 6, EJB – 8, EJB – 9, EJB – 11, EJB - 12.**”, conform contractului nr. / according to contract no. **6335/ 2023 - 2024**.

Best regards / Cu stima,



DIRECTOR GENERAL

DR. ING. GEORGE ARTUR GAMAN

ȘEF SECEEEx

DR. ING. SORIN BURIAN



1

ANEXA/ SCHEDULE

2

CERTIFICAT DE EXAMINARE UE DE TIP / EU TYPE EXAMINATION CERTIFICATE: INSEMEX-OEC.ATEX.23.0332X

3

**Echipamente sau sisteme de protecție destinate pentru folosire în atmosfere potențial explozive
luând în considerare Directiva 2014/34/UE transpusă în HG 245/2016
Equipment or Protective Systems Intended for Use in Potentially Explosive Atmospheres
considering the Directive 2014/34/UE transposed in GD 245/2016**

4

**Produsul / Equipment: Cutii cu aparataj tip / Instrument boxes types EJB – 1S, EJB – 28, EJB – 28A,
EJB – 28B, EJB – 28C, EJB – 1A, EJB – 1B, EJB – 1C, EJB – 2, EJB – 3, EJB –
5, EJB – 6, EJB – 8, EJB – 9, EJB – 11, EJB - 12.**

5

Fabricantul / Manufacturer: EKSPRO Elektrik Malzemeleri Imalat Sanayi ve Ticaret Ltd. Sti.

6

Adresa / Address: Yesilce Mahallesi Demirbas Sok. 20/A, Kagithane – Istanbul – Turkey.

7

Aceste produse și toate variantele acceptabile pentru acestea, sunt specificate în anexa prezentului certificat și în documentele menționate în aceasta. / This products and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

8

INSEMEX-OEC, organism notificat cu nr.1809 în acord cu Articolul 26 din Directiva Consiliului 2014/34/UE din 26 aprilie 2014, prin intermediul serviciului pentru certificare echipamente Ex, INSEMEX-SECEEx, certifică pentru acest produs că a fost constatată conformitatea cu Cerințele Esențiale pentru Sănătate și Securitate referitoare la proiectarea și construcția echipamentului sau sistemului de protecție destinat folosirii în atmosfere potențial explozive prevăzute în Anexa II a Directivei 2014/34/UE (Anexa 2 a HG 245/2016). INSEMEX-OEC, notified body number 1809 in accordance with Article 26 of Council Directive 2014/34/UE of 26 April 2014, through INSEMEX-SECEEx, the department for certification of Ex equipment, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and the construction of equipment or protective systems intended for used in potentially explosive atmospheres given in the Annex II to the Directive (Annex 2 to HG 245/2016).

Rezultatele examinării și încercărilor sunt înregistrate în Raportul de evaluare confidențial / The results of the tests and examinations are recorded in the confidential assessment report no: 32/ 2023.

9

Conformarea produsului cu Cerințele Esențiale pentru Sănătate și Securitate a fost asigurată prin conformare cu SR-EN IEC 60079-0/2018, SR-EN 60079-1/2015 și SR-EN 60079-31/ 2014. / The compliance of the product with the Essential Health and Safety Requirements has been ensured by compliance with SR-EN IEC 60079-0/2018, SR-EN 60079-1/2015 și SR-EN 60079-31/ 2014.

10

Dacă după numărul certificatului este pus semnul "X", acesta atenționează că produsul este supus condițiilor speciale pentru folosire sigură specificate în ANEXA prezentului certificat. / If the mark "X" is placed after the certificate number, it indicates that the product is subjected to special conditions for safe use specified in the schedule of this certificate.





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ANEXA/ SCHEDULE

2

CERTIFICAT DE EXAMINARE UE DE TIP / EU TYPE EXAMINATION CERTIFICATE: INSEMEX-OEC.ATEX.23.0332X

- 11 Prezentul CERTIFICAT DE EXAMINARE UE DE TIP se referă numai la proiectul și construcția echipamentelor sau sistemelor de protecție în conformitate cu Directiva 2014/34/UE transpusă în HG 245/2016 .
În continuare se aplică cerințele prevăzute în Directiva 2014/34/UE transpusă în HG 245/2016 pentru procesul de fabricare și furnizare a echipamentului sau sistemului de protecție. Acestea nu sunt acoperite de acest certificat./

This EU TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified equipment or protective systems in accordance to the Directive 2014/34/UE transposed in GD 245/2016. Further requirements of the Directive 2014/34/UE transposed in GD 245/2016 apply to the manufacturing process and supply equipment or protective systems. These are not covered by this certificate.

- 12 Marcarea echipamentelor sau sistemelor protectoare trebuie să includă următoarele :
The marking of the protective equipment or systems shall include the following:

CE  II 2 G Ex db IIB T6 / T5 / T4 Gb si / sau and / or
CE  II 2 D Ex tb IIIC T 80°C / T 95°C / T 130°C Db si / sau and / or
CE  I M2 Ex db I Mb

Data certificării curente / Date of current certification: 15.11.2023

Prezentul certificat este valabil 5 ani, până la / This certificate is valid for 5 years, until: 15.11.2028

Dosar SECEEx Nr./ SECEEx File No. 111/ 2023

Petroșani, 15.11.2023



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2

ANEXA/ SCHEDULE

CERTIFICAT DE EXAMINARE UE DE TIP / EU TYPE EXAMINATION CERTIFICATE:
INSEMEX-OEC.ATEX.23.0332X

13 Descrierea echipamentelor sau sistemelor protectoare / Description of the equipment or protective systems.

Cutiile (capsularile) cu aparatura, tip EJB sunt destinate sa fie folosite in spatii inchise sau in aer liber in atmosfere potential explozive de gaze, vapori, de grupa II, subdiviziunea B, precum si in aplicatii de aer cu prafuri conductive, grupa IIIC. De asemenea, cutiile cu aparatura tip EJB sunt destinate sa poata fi folosite si aplicatii miniere de grupa I, categoria M2. / EJB type equipped boxes are designed for indoor and outdoor use in potentially hazardous atmospheres, containing combustible gases, vapors of group II, subdivision B, as well as applications of air with conductive dusts of group IIIC. Also, EJB junction boxes are designed to be used in mining applications of group I, category M2.

Capsularile acestor cutii cu aparatura sunt realizate din aluminiu sau otel inoxidabil (pentru grupa II), iar capsularile cutiilor cu aparatura destinate grupei I sunt realizate din fonta sau tabla de otel. / The enclosures of these units are made in aluminium or stainless steel (for group II) and the enclosure material for group I shall be cast iron or welded steel sheet.

Capsularile goale ale cutiilor de aparatura au facut obiectul certificarii ca si component Ex, avand nr. de certificat / the enclosures of the command, control and signalling units and terminating units are subject of Ex component certificates FTZU 06 ATEX 0239U si / and FTZU 06 ATEX 0240U, precum si / as well as INSEMEX-OEC.ATEX.2013.3.0025U si toate detaliile constructive ale capsularilor sunt mentionate in desenele anexate certificatelor de component / and all the constructional details of the enclosures are reported in the drawings annexed to these component certificates.

In cutiile de aparatura tip EJB pot fi instalate diferite tipuri de aparatura electrica de comanda, protectie, semnalizare, masurare, echipament electronic, condensatoare, etc., avand caracteristicile tehnice precizate in documentatie / In the instrument boxes type EJB, switching and control gear, measuring equipment, electronic apparatus, capacitors and display units can be installed, having the technical characteristics reported in the technical notes.

Asa cum este precizat si in certificatele de component, capacul si peretii laterali pot fi prevazuti cu axe sau tije si / sau vizoare de sticla. / As mentioned in the component certificate, cover and side walls may be fitted with actuator rods and / or sight glasses.

Marcarea echipamentului este completata prin marcarea tipurilor de protectie ale aparaturii („e”, „m”, „(ia)”, „(ib)”) cu care sunt echipate capsularile de aparatura. / The apparatus marking is completed by using the codes („e”, „m”, „(ia)”, „(ib)”) as applicable, depending on the built in apparatus.

Gradul normal de protectie al capsularilor de aparatura tip EJB este IP 66. / The normal degree of protection for the EJB series instrument boxes is IP 66.

Domeniul de temperaturi ambiante in care sunt prevazute sa functioneze cutiile (capsularile) de aparatura tip EJB este cuprins intre -40°C.... +40°C; -40°C.... +50°C; -40°C.... +60°C. / The range of ambient temperatures for which the EJB series instrument boxes are designed to function is -40°C.... +40°C; -40°C.... +50°C; -40°C.... +60°C.

Parametrii aparaturii / Technical parameters:

- Tensiune nominala / Rated voltage: 24 – 1000 V a.c. ; 12 – 1500 V d.c.
- Frecventa nominala / Rated frequency 50 – 60 Hz (circuitele electronice sunt exceptate / electronic circuits are exempted)
- Curentul maxim din sigurante si contacte / Max. Current in fuses and contacts: 630 A; 400 A
- Grad normal de protectie / Normal degree of protection: IP 66;
- Tip de protectie pentru aplicatii miniere / Type of protection for minning applications: I M2; Ex db I.
- Tip de protectie pentru aplicatii de grupa II / Type of protection for group II: Ex db IIB si/sau and/or Ex tb IIIC;
- Clasele de temperatura ale unitatilor din categoria / Temperature classes of the units of category II 2 (1) G: T6 sau/ or T5 sau/ or T4;
- Temperaturile maxime de suprafata ale unitatilor din categoria / Max. Surface temperatures of the units of category II 2 (1) D: T85°C sau/ or 100°C sau T130°C;
- Temperatura maxima de suprafata pentru capsularile de grupa I / Max. surface temperature of enclosures to be used in group I: 150°C.
- Temperatura ambienta / Ambient temperature: -40°C.... +40°C; -40°C.... +50°C; -40°C.... +60°C.
- Puterea maxima disipata / maximum dissipated power: Puterea maxima disipata permisa in interiorul capsularii precum si curentul maxim sunt functie de dimensiunea capsularii, clasa de temperatura, sau temperatura max. de suprafata in cazul aparaturii 2D si temperatura ambienta maxima specificata in documentatia aparaturii. / The maximum power which can be dissipated inside the enclosure and the maximum currents on contacts and fuses are a function of enclosure size, of temperature class (or of the maximum surface temperature of category 2D) and of the ambient temperature as specified in details in the documentation.
- Capsularile pot fi folosite cu sau fara cutii de borne cu tipul de protectie securitate marita „e”. Mai multe capsulari pot fi conectate intre ele. Aparatura certificata separat poate fi de asemenea instalata in aceste capsulari. Conexiunile electrice se fac prin intermediul intrarilor de cablu antideflagrante, intrarilor de teava sau bucselor antideflagrante. The enclosures can be used with and without terminal boxes in type of protection increased safety „e”. Several enclosures may be combined with each other. Separately certified electrical apparatus can also be installed in the enclosures. The electrical connection is made by using flameproof cable glands, conduit entries or flameproof bushings.
- Caracteristicile electrice ale circuitelor cu securitate intrinseca trebuie sa fie indicate pe eticheta aparaturii asociate utilizate. Accesoriile utilizate pentru intrarile de cablu si pentru inchiderea deschiderilor neutilizate din capsulare ale unitatilor de categoria II 2 (1) G trebuie sa fie certificate dupa SR-EN IEC 60079-0/2018 si SR-EN 60079-1/2015. / The electrical characteristics of the intrinsic safety circuits are to be indicated on the label of the associated apparatus used. The accessories used for the cable entries and for closing unused apertures in the units of category II 2 (1) G shall be certified according to SR-EN IEC 60079-0/2018 and SR-EN 60079-1/2015.
- Accesoriile utilizate pentru intrarile de cablu si pentru inchiderea deschiderilor neutilizate din capsularile unitatilor de categoria II 2 (1) GD trebuie sa fie certificate dupa / The accessories used for the cable entries and for closing unused apertures in the units of category II 2 (1) GD shall be certified according to SR-EN IEC 60079-0/2018, SR-EN 60079-1/2015, SR-EN 60079-31/2014 si vor avea/and shall have a degree of protection IP 66.

Variante / Variants

- Cutie (capsulare) de aparatura tip / Instrument box (enclosure) type EJB – 1S;
- Cutie (capsulare) de aparatura tip / Instrument box (enclosure) type EJB –28;
- Cutie (capsulare) de aparatura tip / Instrument box (enclosure) type EJB –28 A;
- Cutie (capsulare) de aparatura tip / Instrument box (enclosure) type EJB –28 B;
- Cutie (capsulare) de aparatura tip / Instrument box (enclosure) type EJB –28 C;
- Cutie (capsulare) de aparatura tip / Instrument box (enclosure) type EJB – 1A;
- Cutie (capsulare) de aparatura tip / Instrument box (enclosure) type EJB – 1B;
- Cutie (capsulare) de aparatura tip / Instrument box (enclosure) type EJB – 1C;
- Cutie (capsulare) de aparatura tip / Instrument box (enclosure) type EJB –2;
- Cutie (capsulare) de aparatura tip / Instrument box (enclosure) type EJB –3;
- Cutie (capsulare) de aparatura tip / Instrument box (enclosure) type EJB – 5;
- Cutie (capsulare) de aparatura tip / Instrument box (enclosure) type EJB –6;
- Cutie (capsulare) de aparatura tip / Instrument box (enclosure) type EJB – 8;
- Cutie (capsulare) de aparatura tip / Instrument box (enclosure) type EJB –9;
- Cutie (capsulare) de aparatura tip / Instrument box (enclosure) type EJB –11;
- Cutie (capsulare) de aparatura tip / Instrument box (enclosure) type EJB – 12;

Nr. raport / Report No.: 32/ 2023





ANEXA/ SCHEDULE

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CERTIFICAT DE EXAMINARE UE DE TIP / EU TYPE EXAMINATION CERTIFICATE: INSEMEX-OEC.ATEX. 23.0332X

15 Condiții speciale pentru folosire sigură / Special conditions for safe use:

Pentru racordurile exterioare trebuie prevăzute cabluri permise pentru intrările de cablu, conform diametrelor marcate pe intrările de cablu și pe inelele de etanșare. / For the external connections, adequate cables have to be ensured for the cable entrances according to the diameters specified on the cable entrances and the sealing gaskets.

Producatorul va indica în instrucțiunile de utilizare ale produsului, cuplul minim de strângere al suruburilor de la capacul capsularii pentru asigurarea interstițiului necesar al imbinării plane capac – cutie. / The manufacturer will indicate in the instructions for use of the product, the minimum necessary torque for the screws from the cover of box, in order to ensure the correct gap of the plane joint between cover and box.

Fiecare exemplar trebuie să fie supus în uzină, înainte de pregătirea pentru livrare, unei suprapresiuni statice de 15 bar, conform SR EN 60079-1/ 2015, pct 16. / Each sample (piece of equipment) has to be subjected at the manufacturer premises, to a static overpressure test of 15 bar, according to SR EN 60079-1/ 2015, art.16, before the delivery.

Capsularile de aparatura tip EJB... pentru Grupa I nu trebuie sa contina in masa mai mult de 15% in total, aluminiu, magneziu, titan si zirconiu si mai mult de 7,5% in total, magneziu, titan si zirconiu. / The EJB... type instrument boxes, for Group I shall not contain in mass, more than 15% in total of aluminium, magnesium, titanium and zirconium, and 7,5% in total of magnesium, titanium and zirconium.

Întreținerea pe durata folosirii, reparațiile și reviziile trebuie să se conformeze cu instrucțiunile indicate de producător. / The maintenance, service and overhaul of the product must be done according to the instructions defined by the manufacturer.

Reparațiile și înlocuirile de piese defecte sau uzate trebuie realizate numai de către personal specializat și cu piese de schimb furnizate de către EKSPRO. Reparații care afectează protecția la explozie trebuie efectuate numai de către firma EKSPRO. / Repairs and replacement of damaged or faulty parts must be carried out by skilled and experienced personnel with spare parts supplied by EKSPRO. Repairs that affect explosion proof protection may only be carried out by EKSPRO.

În scopul supravegherii postcertificare, titularul certificatului trebuie să-și îndeplinească obligațiile care rezultă din sistemul de calitate aprobat, care se supune în continuare schemei de supraveghere a organismului notificat responsabil cu evaluarea sistemului de asigurare a calitatii. / For the post certification surveillance the owner of the certificate must comply with the requirements resulted from the quality assurance system approved by the notified body responsible with the quality management system.

16 Cerințe esențiale pentru sănătate și securitate / Essential Health and Safety Requirements

- În conformitate cu referințele menționate la pct.9 / in accordance with standards referred to paragraph no. 9





2 CERTIFICAT DE EXAMINARE UE DE TIP / EU TYPE EXAMINATION CERTIFICATE:
INSEMEX-OEC.ATEX. 23.0332X

17 DESENE / DRAWINGS

Număr / Number	Ediția	Data / Date	Denumire / Name
01-023-020 sheet 2/41	1	10.08.2018	EJB – 1S Terminal & instrument box.
01-023-020 sheet 3/41	1	10.08.2018	EJB – 1C Terminal & instrument box
01-023-020 sheet 4/41	1	10.08.2018	EJB – 1A Terminal, motor starter & instrument box.
01-023-020 sheet 5/41	1	10.08.2018	EJB – 1B Terminal & instrument box
01-023-020 sheet 6/41	1	10.08.2018	EJB – 2 Terminal, motor starter & instrument box
01-023-020 sheet 7/41	1	10.08.2018	EJB – 3 Terminal, motor starter & instrument box
01-023-020 sheet 8/41	1	10.08.2018	EJB – 5 Terminal, motor starter & instrument box
01-023-020 sheet 9/41	1	10.08.2018	EJB – 6 Terminal, motor starter & instrument box
01-023-020 sheet 10/41	1	10.08.2018	EJB – 5 Terminal, motor starter & instrument box
01-023-020 sheet 11/41	1	10.08.2018	EJB – 6 Terminal, motor starter & instrument box
01-023-020 sheet 12/41	1	10.08.2018	EJB – 8 Terminal, motor starter & instrument box
01-023-020 sheet 13/41	1	10.08.2018	EJB – 9 Terminal, motor starter & instrument box
01-023-020 sheet 14/41	1	10.08.2018	EJB – 11 Terminal, motor starter & instrument box
01-023-020 sheet 15/41	1	10.08.2018	EJB – 8 Terminal, motor starter & instrument box
01-023-020 sheet 16/41	1	10.08.2018	EJB – 9 Terminal, motor starter & instrument box
01-023-020 sheet 17/41	1	10.08.2018	EJB – 11 Terminal, motor starter & instrument box
01-023-020 sheet 18/41	1	10.08.2018	EJB – 12 Terminal, motor starter & instrument box
01-023-020 sheet 19/41	1	10.08.2018	EJB – 12 Terminal, motor starter & instrument box
01-023-020 sheet 20/41	1	10.08.2018	EJB – 5 Terminal, motor starter & instrument box
01-023-020 sheet 21/41	1	10.08.2018	EJB – 6 Terminal, motor starter & instrument box
01-023-020 sheet 22/41	1	10.08.2018	EJB – 8 Terminal, motor starter & instrument box
01-023-020 sheet 23/41	1	10.08.2018	EJB – 9 Terminal, motor starter & instrument box
01-023-020 sheet 24/41	1	10.08.2018	EJB – 11 Terminal, motor starter & instrument box
01-023-020 sheet 25/41	1	10.08.2018	EJB – 8 Terminal, motor starter & instrument box
01-023-020 sheet 26/41	1	10.08.2018	EJB – 9 Terminal, motor starter & instrument box
01-023-020 sheet 27/41	1	10.08.2018	EJB – 11 Terminal, motor starter & instrument box
01-023-020 sheet 28/41	1	10.08.2018	EJB – 12 Terminal, motor starter & instrument box
01-023-020 sheet 29/41	1	10.08.2018	EJB – 5 Terminal, motor starter & instrument box
01-023-020 sheet 30/41	1	10.08.2018	EJB – 6 Terminal, motor starter & instrument box
01-023-020 sheet 31/41	1	10.08.2018	EJB – 8 Terminal, motor starter & instrument box
01-023-020 sheet 32/41	1	10.08.2018	EJB – 9 Terminal, motor starter & instrument box
01-023-020 sheet 33/41	1	10.08.2018	EJB – 11 Terminal, motor starter & instrument box
01-023-020 sheet 34/41	1	10.08.2018	EJB – 12 Terminal, motor starter & instrument box
01-023-020 sheet 35/41	1	10.08.2018	EJB – 5 Terminal, motor starter & instrument box
01-023-020 sheet 36/41	1	10.08.2018	EJB – 6 Terminal, motor starter & instrument box
01-023-020 sheet 37/41	1	10.08.2018	EJB – 8 Terminal, motor starter & instrument box
01-023-020 sheet 38/41	1	10.08.2018	EJB – 9 Terminal, motor starter & instrument box
01-023-020 sheet 39/41	1	10.08.2018	EJB – 11 Terminal, motor starter & instrument box
01-023-020 sheet 40/41	1	10.08.2018	EJB – 12 Terminal, motor starter & instrument box
01-023-020 sheet 41/41	1	10.08.2018	EJB – 28 Terminal, motor starter & instrument box
01-023-110 sheet 1/23	1	10.08.2018	Construction specification - 1
01-023-110 sheet 3/23	1	10.08.2018	Data for drilling body
01-023-110 sheet 4/23	1	10.08.2018	Data for drilling cover
01-023-110 sheet 5/23	1	10.08.2018	Data for drilling cover
01-023-110 sheet 6/23	1	10.08.2018	Data for drilling cover
01-023-110 sheet 17/22	1	10.08.2018	Rectangular window for EJBW – xx series enclosures
01-023-110 sheet 18/22	1	10.08.2018	Rectangular window for EJBW – xx series enclosures
01-023-110 sheet 19/22	1	10.08.2018	Rectangular window for EJBW – xx series enclosures
01-023-110 sheet 20/22	1	10.08.2018	Rectangular window for EJBW – xx series enclosures





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2

ANEXA/ SCHEDULE
CERTIFICAT DE EXAMINARE UE DE TIP / EU TYPE EXAMINATION CERTIFICATE:
INSEMEX-OEC.ATEX. 23.0332X

Număr / Number	Ediția	Data / Date	Denumire / Name
01-023-010 sheet 2/6	1	10.08.2018	EJB – 12 Instrument & junction box (assembly)
01-023-010 sheet 3/6	1	10.08.2018	EJB – 12 Instrument & junction box (body)
01-023-010 sheet 4/6	1	10.08.2018	EJB – 12 Instrument & junction box (cover)
01-023-010 sheet 5/6	1	10.08.2018	EJB – 12 Instrument & junction box (gasket and bottom plate)
01-023-010 sheet 6/6	1	10.08.2018	EJB – 12 Instrument & junction box (section view)
01-023-015 sheet 2/6	1	10.08.2018	EJB – 1S Flameproof instrument & junction box assembly drawing
01-023-015 sheet 3/6	1	10.08.2018	EJB – 1S Flameproof instrument & junction box body
01-023-015 sheet 4/6	1	10.08.2018	EJB – 1S Flameproof instrument & junction box cover
01-023-015 sheet 5/6	1	10.08.2018	EJB – 1S Flameproof instrument & junction box bottom plate & O ring
01-023-015 sheet 6/6	1	10.08.2018	EJB – 1S Flameproof instrument & junction box section view
03-023-110 sheet 2/5	1	10.08.2018	EJBW – 1S Flameproof instrument box with window thickness 10 mm
03-023-110 sheet 3/5	1	10.08.2018	EJBW – 1S Flameproof instrument box with window thickness 10 mm
03-023-110 sheet 4/5	1	10.08.2018	EJBW – 1S Flameproof instrument box with window thickness 10 mm
03-023-110 sheet 5/5	1	10.08.2018	EJBW – 1S Flameproof instrument box with window thickness 10 mm
01-023-111 sheet 2/5	1	10.08.2018	EJBW – 2 Flameproof instrument box with window thickness 15 mm
01-023-111 sheet 3/5	1	10.08.2018	EJBW – 2 Flameproof instrument box with window thickness 15 mm
01-023-111 sheet 4/5	1	10.08.2018	EJBW – 2 Flameproof instrument box with window thickness 15 mm
01-023-111 sheet 5/5	1	10.08.2018	EJBW – 2 Flameproof instrument box with window thickness 15 mm
01-023-112 sheet 2/5	1	10.08.2018	EJBW – 12 Flameproof instrument box with window thickness 19 mm
01-023-112 sheet 3/5	1	10.08.2018	EJBW – 12 Flameproof instrument box with window thickness 19 mm
01-023-112 sheet 4/5	1	10.08.2018	EJBW – 12 Flameproof instrument box with window thickness 19 mm
01-023-112 sheet 5/5	1	10.08.2018	EJBW – 12 Flameproof instrument box with window thickness 19 mm

Grup tehnic de lucru / Working technical group:

Dr. ing. Mihai Magyari

Dr. ing. Dragos Fotau

Prezentul certificat poate fi reprodus numai în totalitatea sa și fără nici o modificare, inclusiv anexa / This certificate shall be reproduced only in totality with no change including the annex.

Lista cuvintelor cheie SECEEx /SECEEx key words: EJB....

