



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	IECEX INE 13.0070X	Page 1 of 4	<u>Certificate history:</u>
Status:	Current	Issue No: 7	Issue 6 (2021-11-29)
Date of Issue:	2022-05-02		Issue 5 (2019-01-14)
Applicant:	BARTEC F.N. S.R.L. Via M. Pagano, 3 I - 20090 Trezzano sul Naviglio (MI) Italy		Issue 4 (2018-04-04)
Equipment:	Enclosures type EJB		Issue 3 (2017-01-24)
Optional accessory:			Issue 2 (2015-05-27)
Type of Protection:	db, db [ia], db [ib], tb, tb [ia] or tb [ib]		Issue 1 (2015-01-15)
Marking:	Ex db IIA or IIB or IIB+H2 T6 or T5 or T4 or T3 Gb Ex db [ia IIA or IIB or IIC Ga] IIA or IIB or IIB+H2 T6 or T5 or T4 or T3 Gb Ex db [ib IIA or IIB or IIC] IIA or IIB or IIB+H2 T6 or T5 or T4 or T3 Gb Ex tb IIC T85°C or T100°C or T135°C or T200°C Db Ex tb [ia Da] IIC T85°C or T100°C or T135°C or T200°C Db Ex tb [ib] IIC T85°C or T100°C or T135°C or T200°C Db		Issue 0 (2014-06-23)

Approved for issue on behalf of the IECEx
Certification Body:

Position:

Signature:
(for printed version)

Date:
(for printed version)



Thierry HOUËIX

Ex Certification Officer

2022-05-02

Signé électroniquement
Digitally signed by
Thierry HOUËIX
Ex Certification Officer
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France



controlling risks
for sustainable development



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Manufacturer: **BARTEC F.N. S.R.L.**
Via M. Pagano, 3
I - 20090 Trezzano sul Naviglio (MI)
Italy

Manufacturing locations: **BARTEC F.N. S.R.L.**
Via M. Pagano, 3
I - 20090 Trezzano sul Naviglio (MI)
Italy

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEX Quality system requirements. This certificate is granted subject to the conditions as set out in IECEX Scheme Rules, IECEX 02 and Operational Documents as amended

STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

[IEC 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

[IEC 60079-1:2014-06](#) Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

[IEC 60079-11:2011](#) Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

[IEC 60079-31:2013](#) Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

[FR/INE/ExTR13.0070/07](#)

Quality Assessment Report:

[IT/CES/QAR09.0003/14](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The metallic enclosures made in aluminum alloy, stainless steel, carbon steel or cast iron are covered by the certificate IECEX INE 13.0083U. These enclosures can have a blind cover or provided with a glass window. The enclosures can be fitted with tubes of maximum diameter 3" and maximum length 200 mm in order to assembly two flameproof enclosures separated by a certified sealing fitting in accordance with the drawing specified in the descriptive documents.

Enclosures could be fitted with accessories covered by IECEX component certificates. The list of the components is defined in the Table 4 of the Annex. The components covered by the certificate IECEX INE 13.0073U could be mounted on the enclosure without their marking plates.

They can contain electrical 'NIS' devices and also 'IS' element covered by separated certificates.

Three different types of batteries defined in the technical documentation could be installed inside the enclosure.

As specified in the Annex E of the manufacturer's descriptive documents, a specific configuration of the enclosure type EJB30 can contain:

- A batteries pack using cells type "MP 174565" from SAFT and their associated protective devices
- GPS, GSM/GPRS antennas and relevant receiving apparatus.

These enclosures get the degrees of protection IP66 according to the IEC 60529 standard.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- The flameproof joints have different values from those specified in the tables of the IEC 60079-1 standard. For any repairs, to contact the manufacturer.
- The screws used for the assembly of the various parts of explosion-proof enclosures must be of quality higher or equal to 450 MPa, or 600 MPa for version XL at ambient temperature lower than -20°C.
- During the installation, the user will take into consideration that the pilot light EFL*PC*and the covers with window(s) underwent only a shock corresponding to an energy of a low risk at 2 J.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

For the Issue 1 of the certificate IECEX INE 13.0070X :

- Extension of the maximum ambient temperature from +60°C to +80°C
- Application of the new standard IEC 60079-31:2013
- New type valve ECD1** covered by an IECEX certificate.
- Updated of technical documentations and test report in order to correct some mistakes.

For the Issue 2 of the certificate IECEX INE 13.0070X :

- Removal of the restrictions of use of the valves type ECD**** covered by the certificates IECEX EXA 14.0004U, IECEX EXA 14.0005U, IECEX EXA 14.0006U regarding the maximum volume allowed.

For the Issue 3 of the certificate IECEX INE 13.0070X :

- Application of the standard IEC 60079-1:2014.
- Introduction of a specific variation of enclosure EJB30 including a pack batteries using cells type "MP 174565" from SAFT, the protective devices associated and antennas GPS, GSM/GPRS.
- Increase the maximum supply voltage.

For the Issue 4 of the certificate IECEX INE 13.0070X :

- Possibility to use the enclosure in ambient temperature 50°C with or without IS element

For the Issue 5 of the certificate IECEX INE 13.0070X :

- Update of the maximum dissipated power allowed in the enclosures

For the Issue 6 of the certificate IECEX INE 13.0070X :

- Change of the name and address of the applicant and manufacturer
- Update of the marking plates

For the Issue 7 of the certificate IECEX INE 13.0070X :

- Addition of electrostatic warning "WARNING – POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS"
- Application of standard IEC 60079-0:2018
- Addition of a BARTEC line bushing

Annex:

[IECEX INE 13.0070X-07_Annex.pdf](#)



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PARAMETERS RELATING TO THE SAFETY

For enclosure without intrinsic safety element:

These versions are intended to be used in range of ambient temperatures from:
-60°C or -40°C or -20°C to +40°C or +50°C or +60°C or +80°C

Maximum supply voltage : 13 kVac or 750 Vdc
Maximum current : 2 000 A
Rated frequency : 0/50/60 Hz

Maximum dissipated powers are defined in the Table 1 for enclosures without window and Table 2 for enclosures with window(s).

For enclosure with intrinsic safety element:

These versions are intended to be used in range of ambient temperatures from:
-60°C or -40°C or -20°C to +40°C or +50°C or +60°C

The minimum ambient temperature must be in accordance with the IS components installed inside the enclosures (Barriers, terminals...)

Maximum supply voltage for Non 'IS' elements : 1000 Vac or Vdc
Maximum supply voltage for "IS" elements : 250 V

Maximum dissipated powers are defined in the Table 1 or 2 for enclosures with thermal probes.
Maximum dissipated powers are defined in the Table 3 for enclosures without thermal probes.

The maximum threshold of thermal probe shall be:

Ambient temperature of the enclosure	Ambient temperature of the IS element	Threshold of release of the thermal probe
40°C	≤ 60°C	55°C ± 5°C
	≤ 70°C	65°C ± 5°C
50°C	≤ 60°C	55°C ± 5°C
	≤ 70°C	65°C ± 5°C
	≤ 80°C	75°C ± 5°C
60°C	≤ 70°C	65°C ± 5°C
	≤ 80°C	75°C ± 5°C



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TABLE 1 (First part): Maximum dissipated power for EJB without window and/or with IS barrier protected by thermal probes (W)							
Temperature class:	T6/T85°C			T5/T100°C			
Ambient temperature:	+40°C	+50°C	+60°C	+40°C	+50°C	+60°C	+80°C (*)
EJB11	40	29	18	57	46	34	12
EJB12	36	26	16	51	41	31	11
EJB14	58	42	26	82	66	49	18
EJB123	58	42	26	83	66	50	18
EJB08	90	65	40	128	102	77	28
EJB21UL	98	70	47	138	110	84	33
EJB22	103	74	49	145	116	88	34
EJB23	126	90	60	177	141	108	42
EJB21	133	95	63	186	149	114	44
EJB41	152	110	73	214	171	131	51
EJB30	168	121	80	236	189	144	56
EJB31	143	101	62	201	161	124	43
EJB31UL	144	101	62	202	162	125	43
EJB51UL	212	149	92	299	239	184	63
EJB51	220	155	95	310	248	191	66
EJB63UL	284	199	123	399	319	245	84
EJB63	296	208	128	416	333	256	88
EJB61UL	407	306	203	553	449	355	146
EJB61	431	324	215	586	476	376	155
EJB61R	431	324	215	586	476	376	155
EJB73	458	344	229	622	505	399	164
EJB71	549	413	275	747	606	479	197
EJB93	624	469	312	848	689	544	224
EJB91	904	652	440	1240	1019	784	320
Allowed operators from IECEx INE 13.0073U	Operators with NBR, EPDM, LSR or MVQ gaskets and pilots lights EFL*PC*			Operators with EPDM, LSR or MVQ gaskets and pilots lights EFL*PC*			
Allowed accessories from, IECEx EXA 14.0004U IECEx EXA 14.0006U	Can be fitted on all EJB.						
Allowed line bushing from IECEx EPS 13.0045U IECEx EPS 14.0020U	Only threaded type of bushings is allowed.						
T.CABLE	80°C			90°C			

(*) No allowed for enclosure with "IS" barrier.



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TABLE 1 (Second part): Maximum dissipated power for EJB without windows and/or with IS barrier protected by thermal probes (W)								
Temperature class:	T4/T135°C				T3/T200°C			
Ambient temperature:	+40°C	+50°C	+60°C	+80°C (*)	+40°C	+50°C	+60°C	+80°C (*)
EJB11	96	84	73	62	168	156	145	124
EJB12	86	76	66	56	151	141	131	112
EJB14	138	121	105	90	241	225	209	178
EJB123	139	122	106	91	243	227	211	180
EJB08	214	189	164	140	376	350	326	278
EJB21UL	229	202	177	149	399	439	348	294
EJB22	241	213	187	157	420	392	366	310
EJB23	293	259	227	191	512	478	446	377
EJB21	310	273	240	202	540	504	471	398
EJB41	356	314	276	232	621	579	541	457
EJB30	392	346	304	256	684	638	596	504
EJB31	345	302	263	225	608	564	527	445
EJB31UL	346	304	265	226	611	567	529	448
EJB51UL	511	448	390	333	901	836	781	660
EJB51	530	465	405	346	935	868	810	685
EJB63UL	683	598	522	445	1204	1118	1043	882
EJB63	712	624	544	464	1256	1166	1088	920
EJB61UL	913	815	704	610	1575	1468	1372	1163
EJB61	967	863	746	646	1668	1554	1453	1232
EJB61R	967	863	746	646	1668	1554	1453	1232
EJB73	1027	917	792	687	1772	1651	1543	1309
EJB71	1232	1101	951	824	2127	1982	1852	1570
EJB93	1400	1250	1080	936	2416	2251	2104	1784
EJB91	2040	1802	1576	1360	3544	3296	3080	2620
Allowed operators from IECEx INE 13.0073U	Operators with EPDM, LSR or MVQ gaskets				Operators with LSR or MVQ gaskets			
Allowed accessories from IECEx EXA 14.0004U IECEx EXA 14.0006U	Can be fitted on all EJB.							
Allowed line bushing from IECEx EPS 13.0045U IECEx EPS 14.0020U	Not allowed to use							
T.CABLE	115°C				175°C			

(*) No allowed for enclosure with "IS" barrier.-



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TABLE 2 (First part): Maximum dissipated power for EJB with windows and/or with IS barrier protected by thermal probes (W)							
Temperature class :	T6/T85°C			T5/T100°C			
Ambient temperature:	+40°C	+50°C	+60°C	+40°C	+50°C	+60°C	+80°C (*)
EJB11	40	29	18	57	46	34	12
EJB12	36	26	16	51	41	31	11
EJB14	58	42	26	82	66	49	18
EJB123	58	42	26	83	66	50	18
EJB08	90	65	40	128	102	77	28
EJB21UL	98	70	47	138	110	84	33
EJB22	103	74	49	145	116	88	34
EJB23	126	90	60	177	141	108	42
EJB21	133	95	63	186	149	114	44
EJB41	152	110	73	214	171	131	51
EJB30	168	121	80	236	189	144	56
EJB31	143	101	62	201	161	124	43
EJB31UL	144	101	62	202	162	125	43
EJB51UL	212	149	92	299	239	184	63
EJB51	220	155	95	310	248	191	66
EJB63UL	284	199	123	399	319	245	84
EJB63	296	208	128	416	333	256	88
EJB61UL	407	306	203	553	449	355	146
EJB61	431	324	215	586	476	376	155
EJB61R	431	324	215	586	476	376	155
EJB73	458	344	229	622	505	399	164
EJB71	549	413	275	747	606	479	197
EJB93	624	469	312	848	689	544	224
EJB91	904	652	440	1240	1019	784	320
Allowed operators from IECEx INE 13.0073U	Operators with NBR, EPDM, LSR or MVQ gaskets and pilots lights EFL*PC*			Operators with EPDM, LSR or MVQ gaskets and pilots lights EFL*PC*			
Allowed accessories from IECEx EXA 14.0004U IECEX EXA 14.0006U	Can be fitted on all EJB.						
Allowed line bushing from IECEx EPS 13.0045U IECEX EPS 14.0020U	Only threaded type of bushings is allowed.						
T.CABLE	80°C			90°C			

(*) No allowed for enclosure with "IS" barrier.



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TABLE 2 (Second part): Maximum dissipated power for EJB with windows and/or with IS barrier protected by thermal probes (W)								
Temperature class :	T4/T135°C				T3/T200°C			
Ambient temperature:	+40°C	+50°C	+60°C	+80°C (*)	+40°C	+50°C	+60°C	+80°C (*)
EJB11	64	55	47	30	64	55	47	30
EJB12	58	50	43	27	58	50	43	27
EJB14	92	80	68	44	92	80	68	44
EJB123	93	80	69	44	93	80	69	44
EJB08	144	124	106	68	144	124	106	68
EJB21UL	140	121	103	68	140	121	103	68
EJB22	147	128	108	71	147	128	108	71
EJB23	180	156	132	87	180	156	132	87
EJB21	189	164	139	92	189	164	139	92
EJB41	218	189	160	105	218	189	160	105
EJB30	240	208	176	116	240	208	176	116
EJB31	232	200	170	108	232	200	170	108
EJB31UL	234	201	171	109	234	201	171	109
EJB51UL	344	297	253	161	344	297	253	161
EJB51	357	308	262	167	357	308	262	167
EJB63UL	460	397	338	215	460	397	338	215
EJB63	480	414	352	224	480	414	352	224
EJB61UL	626	541	464	308	626	541	464	308
EJB61	663	573	492	326	663	573	492	326
EJB61R	663	573	492	326	663	573	492	326
EJB73	704	609	522	346	704	609	522	246
EJB71	845	730	627	416	845	730	627	416
EJB93	960	830	712	472	960	830	712	472
EJB91	1384	1202	1040	680	1384	1202	1040	680
Allowed operators from IECEx INE 13.0073U	Operators with EPDM, LSR or MVQ gaskets				Operators with LSR or MVQ gaskets			
Allowed accessories from IECEx EXA 14.0004U IECEX EXA 14.0006U	Can be fitted on all EJB.							
Allowed line bushing from IECEx EPS 13.0045U IECEX EPS 14.0020U	Not allowed to use							
T.CABLE	115°C				115°C			

(*) No allowed for enclosure with "IS" barrier.



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TABLE 3: Maximum dissipated power for EJB with IS barrier without thermal probes protection

Type of enclosure	Ambient temperature of the intrinsic safety element	T6/T85°C for ambient (W)			Type of enclosure	Ambient temperature of the intrinsic safety element	T6/T85°C for ambient (W)		
		+40°C	+50°C	+60°C			+40°C	+50°C	+60°C
EJB11	60°C	4	NA	NA	EJB31UL	60°C	18	NA	NA
	70°C	8	4	NA		70°C	39	18	NA
	80°C	13	8	4		80°C	61	39	18
EJB12	60°C	3	NA	NA	EJB51UL	60°C	26	NA	NA
	70°C	8	3	NA		70°C	57	26	NA
	80°C	12	8	3		80°C	90	57	26
EJB14	60°C	5	NA	NA	EJB51	60°C	27	NA	NA
	70°C	12	5	NA		70°C	60	27	NA
	80°C	19	12	5		80°C	94	60	27
EJB123	60°C	5	NA	NA	EJB63UL	60°C	35	NA	NA
	70°C	12	5	NA		70°C	77	35	NA
	80°C	19	12	5		80°C	121	77	35
EJB08	60°C	8	NA	NA	EJB63	60°C	36	NA	NA
	70°C	19	8	NA		70°C	80	36	NA
	80°C	30	19	8		80°C	126	80	36
EJB21UL	60°C	9	NA	NA	EJB61UL	60°C	89	NA	NA
	70°C	20	9	NA		70°C	142	89	NA
	80°C	30	20	9		80°C	198	142	89
EJB22	60°C	10	NA	NA	EJB61	60°C	94	NA	NA
	70°C	21	10	NA		70°C	151	94	NA
	80°C	31	21	10		80°C	210	151	94
EJB23	60°C	12	NA	NA	EJB61R	60°C	94	NA	NA
	70°C	25	12	NA		70°C	151	94	NA
	80°C	38	25	12		80°C	210	151	94
EJB21	60°C	13	NA	NA	EJB73	60°C	100	NA	NA
	70°C	27	13	NA		70°C	160	100	NA
	80°C	40	27	13		80°C	223	160	100
EJB41	60°C	15	NA	NA	EJB71	60°C	120	NA	NA
	70°C	31	15	NA		70°C	192	120	NA
	80°C	46	31	15		80°C	268	192	120
EJB30	60°C	16	NA	NA	EJB93	60°C	136	NA	NA
	70°C	34	16	NA		70°C	218	136	NA
	80°C	51	34	16		80°C	304	218	136
EJB31	60°C	17	NA	NA	EJB91	60°C	176	NA	NA
	70°C	39	17	NA		70°C	283	176	NA
	80°C	61	39	17		80°C	398	283	176



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TABLE 4 :

List of the components intended to be installed on the enclosures

Type of component	Manufacturer	Certificate number	Editions of the standard
Enclosures type EJB	BARTEC FN	IECEX INE 13.0083U (Issue 04)	IEC 60079-0 : 2017 IEC 60079-1 : 2014 IEC 60079-31 : 2013
Operators type PM10X, EFI*, EFP*, EFL*PC* and EFPL3	BARTEC FN	IECEX INE 13.0073U (Issue 03)	IEC 60079-0 : 2011 (*) IEC 60079-1 : 2014 IEC 60079-31 : 2013
Breathing and draining valve type ECD****	FEAM	IECEX EXA 14.0004U (Issue 01)	IEC 60079-0 : 2011 (*) IEC 60079-1 : 2007 (*) IEC 60079-31 : 2013
Breathing and draining valve type ECD****	FENEX	IECEX EXA 14.0006U (Issue 01)	IEC 60079-0 : 2011 (*) IEC 60079-1 : 2007 (*) IEC 60079-31 : 2013
Line bushing	BARTEC	IECEX EPS 13.0045U (Issue 02)	IEC 60079-0 : 2017 IEC 60079-1 : 2014
Line bushing	BARTEC	IECEX EPS 14.0020U (Issue 01)	IEC 60079-0 : 2017 IEC 60079-1 : 2014

(*) Not concerned by the major technical changes of the last edition of the standard.



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MARKING

Marking has to be readable and indelible; it has to include the following indications:

A – Enclosures without intrinsic safety element:

- BARTEC FN S.R.L ⁽¹⁾
- I - 20090 Trezzano sul Naviglio (MI)
- EJB...⁽²⁾
- IECEx INE 13.0070X
- (Serial number)
- Ex db IIA or IIB or IIB+H2 T⁽³⁾ Gb
- Ex tb IIIC T⁽³⁾ Db IP66
- ...°C < Tamb < ...°C ⁽⁴⁾
- T.Cable : ⁽³⁾
- Cable entry: see instructions
- **WARNINGS:**
DO NOT OPEN IF AN EXPLOSIVE ATMOSPHERE MAY BE PRESENT.
POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS ⁽⁵⁾

B - Enclosures with intrinsic safety element :

- BARTEC FN S.R.L ⁽¹⁾
- I - 20090 Trezzano sul Naviglio (MI)
- EJB...⁽²⁾
- IECEx INE 13.0070X
- (Serial number)
- Ex db [ia IIA or IIB or IIC Ga] IIA or IIB or IIB+H2 T⁽³⁾ Gb
- Ex tb [ia Da] IIIC T⁽³⁾ Db IP66
Or
- Ex db [ib IIA or IIB or IIC] IIA or IIB or IIB+H2 T⁽³⁾ Gb
- Ex tb [ib] IIIC T⁽³⁾ Db IP66
- ...°C < Tamb < ...°C ⁽⁴⁾
- T.Cable : ⁽³⁾
- Cable entry: see instructions
- **WARNINGS:**
DO NOT OPEN WHEN IF EXPLOSIVE ATMOSPHERE MAY BE PRESENT.
POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS ⁽⁵⁾

- (1) Optional Brands "BARTEC FEAM" or "BARTEC NASP" can be added in the marking with the sentence "manufactured by BARTEC FN"
- (2) Type is completed by number and/or letters corresponding to size of the enclosure
- (3) Temperature class in accordance with Table 1 or 2 regarding to the maximum dissipated power
- (4) See parameters relating to the safety
- (5) Warning to be added when thickness of not conductive paint applied on the enclosure is > 2 mm (Group IIB) or > 0.2 mm (Group IIB+H2)

ROUTINE EXAMINATIONS AND TESTS

None: Covered by the Ex Component certificate IECEx INE 13.0083U