



# 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](http://www.iecex.com)

Certificate No.: **IECEX ITS 24.0015X** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2024-08-06

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

Equipment: **Sealing Fittings - EZS xyz**

Optional accessory:

Type of Protection: **Flameproof "Ex db" and Dust protection by Enclosure "Ex tb"**

Marking: Ex db IIC T6 Gb  
Ex tb IIIC T85°C Db IP66  
-20°C ≤ Tamb ≤ +60°C  
IECEX ITS 24.0015X

Approved for issue on behalf of the IECEx  
Certification Body:

**Mark Newman**

Position:

**Certificate Officer**

Signature:  
(for printed version)

Date:  
(for printed version)

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2. This certificate is not transferable and remains the property of the issuing body.
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Certificate issued by:

**Intertek Testing & Certification Limited**  
ITS House, Cleeve Road  
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Surrey, KT22 7SA  
**United Kingdom**

**intertek**



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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](#) Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"  
Edition:7.0

[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:

[GB/ITS/ExTR24.0012/00](#)

Quality Assessment Report:

[IT/CES/QAR09.0003/16](#)



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## EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The sealing fittings EZS are used to avoid the spread of flame along the conduits. They can be installed on both vertical and horizontal conduits. They must be installed as close as possible at Ex db electric equipment or in accordance with the maximum distances indicated on certificate of apparatus.

Maximum area occupied by the conductor out of total is 18% and maximum.

The sealing fittings are installable in flameproof enclosure with a maximum reference pressure of 9.4bar or less.

The type code of the product is EZS xyz where:

- EZS is commercial name
- x is threaded code
- y is threaded type
- z is material

The option for each code is described in the following table:

Commercial name	Threaded code (x)	Threaded type (y)			Material (z)	
		N	M	I	blank	X
EZS	01	½"	M20x1.5	M20x2	Aluminum	Stainless steel
	02	¾"	M25x1.5	M25x2		
	03	1"	M21x1.5	M32x2		
	04	1" ¼	M40x1.5	M40x2		
	05	1" ½	M50x1.5	M50x2		
	06	2"	M63x1.5	M63x2		
	07	2" ½	M75x1.5	M75x2		
	85	-	M85x1.5	M85x2		
	08	3"	M90x1.5	M90x2		

## SPECIFIC CONDITIONS OF USE: YES as shown below:

- See user manual to minimize the risk of electrostatic charge.
- The sealing fittings are installable in flameproof enclosure with a maximum reference pressure of 9.4bar or less.

## Annex:

[IECEX ITS 24.0015 X - Annex for IECEX Certificate of Conformity.pdf](#)



## Annex to IECEx Certificate of Conformity

<b>Certificate No:</b>	<b>IECEX ITS 24.0015 X</b>	<b>Issue No. 0</b>
<b>Annex No. 1</b>		

Number of conductors permitted for each size of sealing fittings are:

GRANDEZZA SIZE	COD. FILETTO THREAD CODE	NUMERO DI CAVI X SEZIONE (mmq) AMMESSI * NUMBER CABLE X SECTION (sqmm) ALLOWED *													
		1,5	2,5	4	6	10	16	25	35	50	70	95	120	150	
<b>1</b>	<b>01</b>	7	4	3	2	1	1								
<b>2</b>	<b>02</b>	11	7	5	4	2	1	1							
<b>3</b>	<b>03</b>	17	11	8	7	4	2	1	1	1					
<b>4</b>	<b>04</b>	27	19	13	11	6	4	3	2	1	1				
<b>5</b>	<b>05</b>	36	24	18	14	9	5	4	3	2	1	1	1		
<b>6</b>	<b>06</b>	56	38	28	23	14	8	6	4	3	2	1	1	1	
<b>7</b>	<b>07</b>	83	57	41	34	20	12	9	7	4	3	2	2	1	
<b>8</b>	<b>08</b>	112	77	56	46	28	17	12	9	6	5	3	3	2	
<b>8</b>	<b>08</b>	123	84	61	50	30	18	13	10	7	5	4	3	2	

Maximum current for each cable size is:

SEZIONE NOMINALE [mmq] CROSS-SECTIONAL NOMINAL [sqmm]	CORRENTE MASSIMA [A] MAX CURRENT [A]
1,5	10
2,5	16
4	20
6	32
10	40
16	63
25	80
35	100
50	125
70	160
95	200
120	250
150	280



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<b>Technical Documents</b>			
<b>Title:</b>	<b>Drawing No.:</b>	<b>Rev. Level:</b>	<b>Date:</b>
Technical Note	NT 17-436	0	11/06/2024
Instructions for use	IU 17-436	0	11/06/2024
Sealing Fittings type EZS - dimensions	PNC 17-436-FG1	0	11/06/2024
Sealing fittings – Tables related to cables passage and sealing	PNC 17-436-FG2	0	11/06/2024
Sealing Fittings - Marking	PNC 17-436-FG3	0	11/06/2024
WEICON C epoxy resin datasheet	ATT17-436-0E	0	11/06/2024

<b>IECEX Certified Components on Which Conformance Depends</b>					
<b>Item</b>	<b>Description</b>	<b>Manufacturer</b>	<b>Type</b>	<b>Certificate No. / Standards*</b>	<b>Coding / Ratings</b>
1	N/A				

\* "No applicable Technical Differences" or "Technical Differences evaluated and found satisfactory – for detail see ExTR"

<b>Required Manufacturer Routine Testing</b>		
<b>Test</b>	<b>Title/Description of Test</b>	<b>Standard and Clause</b>
1	N/A	