



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 Ex COMPONENT CERTIFICATE

Certificate No.: **IECEX IBE 20.0041U** Page 1 of 5 [Certificate history:](#)
Status: **Current** Issue No: 0
Date of Issue: 2024-03-05
Applicant: **BARTEC F.N. S.R.L.**
Via M. Pagano, 3
I - 20090 Trezzano sul Naviglio (MI)
Italy
Ex Component: Polyester enclosure types 07-5184-****/**** and 07-5185-****/****
This component is NOT intended to be used alone and requires additional consideration when incorporated into other equipment or systems for use in explosive atmospheres (refer to IEC 60079-0).
Type of Protection: **Increased safety "e" and protection by enclosure "t"**
Marking: Ex eb IIC Gb
Ex tb IIIC Db

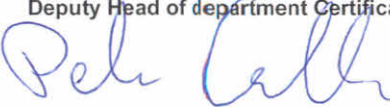
Approved for issue on behalf of the IECEx
Certification Body:

Dr.-Ing. Peter Cimalla

Position:

Deputy Head of department Certification Body

Signature:
(for printed version)


2024-03-05

Date:
(for printed version)

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2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.



Certificate issued by:

IBExU Institut für Sicherheitstechnik GmbH
Fuchsmühlenweg 7
09599 Freiberg
Germany





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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

BARTEC GmbH
Max Eyth Straße 16
97980 Bad Mergentheim
Germany

FENEX S.r.l.
Via Carducci 16, I - 34070 Moraro
(GO)
Italy

See following pages for more locations

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 component 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 60079-31:2022](#) Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t"
Edition:3.0

[IEC 60079-7:2017](#) Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

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 component listed has successfully met the examination and test requirements as recorded in:

Test Report:

[DE/IBE/ExTR20.0047/00](#)

Quality Assessment Reports:

[DE/TUN/QAR06.0017/14](#)
[IT/CES/QAR09.0003/15](#)
[NL/DEK/QAR12.0059/07](#)
[SI/SIQ/QAR11.0003/08](#)

[FR/INE/QAR17.0001/05](#)
[IT/CES/QAR12.0006/10](#)
[NL/DEK/QAR12.0061/09](#)

[GB/ITS/QAR15.0008/04](#)
[NL/DEK/QAR11.0034/07](#)
[NO/DNV/QAR23.0002/01](#)



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Ex Component(s) covered by this certificate is described below:

The explosion protected polyester enclosure is designed for use in a fixed installation in potentially hazardous areas in zones 1 and 2 as well as 21 and 22, mainly for the installation of explosion protected components and/or equipment. The enclosures are made of polyester molding compound. There are two different variations, one dissipative made of black plastic (type 07-5185-****/****) and one insulating variation made of grey plastic (type 07-5184-****/****). Bottom part and cover have circumferential spring and groove, with a circumferential cord seal. The cover is fixed by screws. In the four sidewalls and the bottom surface of the body part of the enclosure, as well as in the cover surface, there are drilling areas for the installation of Ex cable entry devices or Ex blanking elements. In the cover surface of the medium to bigger sized enclosures there is a drilling area for the installation of Ex control-, Ex indicating components or Ex blanking elements.

The operating temperature range depends on used material of gasket, see below.

Technical data:

Enclosure sizes	Width	Height	Depth
Minimum	80 mm	75 mm	55 mm
Maximum	600 mm	405 mm	165 mm

Further identically constructed enclosures and construction details with intermediate sizes may be manufactured.

Rated service temperature range	-35 °C up to +90 °C	with EPDM gasket
	-55 °C up to +100 °C	with silicon gasket

Degree of protection	minimum IP64
	maximum IP66 (according to IEC 60529)

Surface resistance	enclosure type 07-5184-****/**** > 10 ¹² Ω
	enclosure type 07-5185-****/**** < 10 ⁹ Ω

Type code

07	-	5	1	8	*	-	*	*	*	*	/	*	*	*	*
A		B	C	D	E		F	G	H	I		J	K	L	M

Character	Character for	Variant	Description
A	Basic program	07	Basic program device
B	Type of device	5	Number for installation material
C, D	Design	1	Number for distributor enclosure
		8	Number for empty enclosure Ex e and Ex t
E	Enclosure type	4	Polyester grey
		5	Polyester black
F....M	Enclosure size	*	Width Height Depth



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SCHEDULE OF LIMITATIONS:

For enclosures and parts of enclosures type 07-5184-****/**** (grey enclosures made of insulating material) exist potential electrostatic charging hazard. These enclosures shall not be installed in areas where charging processes may occur. The surface has to be cleaned only with a damp cloth. Further, the enclosures have to be equipped with following marking:
"Warning – potential electrostatic charging hazard. Only wet cleaning. See instructions".

Enclosures and parts of enclosures type 07-5185-****/**** (black enclosures made of dissipative material) must be properly earthed via installation.

The service temperature range must be observed and shall not exceed the listed values depending on the material of the gasket.

Cable entries and closing plugs must be Ex certified and contain a suitable sealing gasket in order to ensure IP64.



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Additional manufacturing locations:

BARTEC NEDERLAND B.V.
Boelewerf 25
2987 VD Ridderkerk
Netherlands

BARTEC AS
Vestre Svanholmen 24
Sandnes 4313
Norway

BARTEC VARNOST d.o.o.
Cesta 9 avgusta 59
1410 Zagorje ob Savi
Slovenia

**BARTEC Explosion Proof Appliances
(Shanghai) Co. Ltd.**
New Building 7
No. 188 Xinjung Rind Rd.
Caohejing Pujiang Hi-tech park
Minhang District, Shanghai
China

BARTEC Pte Ltd
63 Hillview Avenue
#07-18 to #07-/23 Lam Soon Industrial
Building
Singapore 669569
Singapore

Bartec Middle East FZE
HB01 Jebel Ali Free Zone
PO Box No 17830
Dubai
United Arab Emirates
United Arab Emirates

BARTEC MIDDLE EAST L.C.C
PO Box 3685
Al Khobar 31952
Saudi Arabia