[1] EU-TYPE EXAMINATION CERTIFICATE - Translation

[2] Components intended for use on / in an equipment or protective systems intended for use in potentially explosive atmospheres, Directive 2014/34/EU

[3] EU-type examination certificate number **IBExU21ATEX1009 U** | Issue 0

[4] Product: **Polyester enclosure**
Types 07-5184-****/**** and 07-5185-****/****

[5] Manufacturer: BARTEC F.N. S.r.l.

[6] Address: Via Mario Pagano, 3
20090 Trezzano Sul Naviglio, Milano
ITALY

[7] This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

[8] IBExU Institut für Sicherheitstechnik GmbH, notified body number 0637 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 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 products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential test report IB-20-3-0171.

[9] Compliance with the essential health and safety requirements has been assured by compliance with:
EN IEC 60079-0:2018, EN IEC 60079-7:2015/A1:2018 and EN 60079-31:2014
except in respect of those requirements listed at item [18] of the schedule.

[10] If the sign "U" is placed after the certificate number, it indicates that this certificate must not be mistaken for a certificate intended for an equipment or protective system. This partial certification may be used as a basis for certification of an equipment or protective system.

[11] This EU-type examination certificate relates only to the design and construction of the specified product. 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 II 2G Ex eb IIC Gb
Ex II 2D Ex tb IIIC Db

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By order

Dr.-Ing. P. Cimalla

- Seal -
(notified body number 0637)

Certificates without signature and seal are not valid. Certificates may only be duplicated completely and unchanged. In case of dispute, the German text shall prevail.

Freiberg, 2024-03-05

[13] **Schedule**

[14] **Certificate number IBExU21ATEX1009 U** | Issue 0

[15] **Description of product**
The explosion protected empty 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.

Type code

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

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 (in mm)

Technical data

dimensions (in mm)	width	height	depth
Minimum	80	75	55
Maximum	600	405	165

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

Surface resistance: enclosure type 07-5184-****/**** > 10^{12} Ω (grey)
enclosure type 07-5185-****/**** < 10^{9} Ω (black)

Degree of protection acc. to EN 60529: minimum IP64
maximum IP66

Rated service temperature range: -35 °C ... +90 °C, with EPDM gasket
-55 °C ... +100 °C, with Silicone gasket

[16] **Test report**
The test results are recorded in the confidential test report IB-20-3-0171 of 2024-03-04.
The test documents are part of the test report and they are listed there.

Summary of the test results
The polyester enclosures types 07-5184-****/**** and 07-5185-****/**** fulfil the requirements of explosion protection of components for the use in group II, category 2G in type of protection increased safety "eb" as well as category 2D in type of protection protection by enclosure "tb".

[17] **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.

[18] **Essential health and safety requirements**
In addition to the essential health and safety requirements (EHSRs) covered by the standards listed at item [9], the following are considered relevant to this product, and conformity is demonstrated in the test report:

None

[19] **Drawings and Documents**
The documents are listed in the test report.

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09599 Freiberg, GERMANY

By order

Dr.-Ing. P. Cimalla

Freiberg, 2024-03-05