

## Terminal box

### Fields of application

- Connection of lamps, devices and sensors
- Zone 1 and Zone 2

### Technical data

#### Material

glass-fibre reinforced polyester,  
colour: RAL 7035

#### Lid screws

stainless steel, captive,  
cross-head, M4

#### Seals

EPDM -20 °C to +80 °C

#### Mechanical resistance

according to EN 50014  
impact energy 7 Nm

**Protection class** EN 60529/IEC 60529  
IP 65

#### Terminals

4 or 5 EEx e II  
pillar terminals according to execution  
max. 2 x 4 mm<sup>2</sup>, single-wire

#### Rated voltage

max. 750 V

#### Rated current

max. 27 A

### Explosion protection

**Ex protection type** (according to EN 50014)

Ex II 2G EEx e II T6

#### Certification

PTB 00 ATEX 1099

#### Ambient temperature

-20 °C to +40 °C

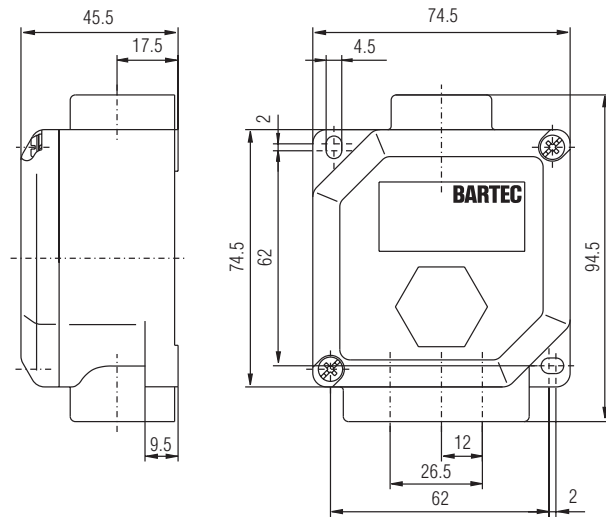
### Description

The explosion-proof terminal boxes of glass-fibre reinforced plastic come with pillar terminals.

Lid and base are secured with captive screws. The box has pillar terminals and threads (see selection chart). All holes for cable entries not used, have to be sealed by means of Ex-certified stopping plugs.

The terminal box is also suitable for the connection of intrinsically safe circuits. Such cases require special markings. The box is mounted via fixing holes located outside of the terminal compartment.

#### Dimensions (in mm)



### Selection chart accessories/spare parts

	Cable glands	Stopping plugs
M 20 x 1.5	<b>07-9534-1M2 (6-12 mm)</b>	<b>07-9583-0M2s</b>
M 20 x 1.5	<b>07-9534-2M2 (5-9 mm)</b>	-
M 20 x 1.5	<b>07-9534-3M2 (10-14 mm)</b>	-

#### Terminal boxes EEx e, 750 V (just drilling, without KVS/Ex - 95.D.3132)

Name	Order no.
4 cable glands 2 x 4 mm <sup>2</sup> , 1 x M 20 x 1.5 + 2 x M 20 x 1.5	<b>07-5311-2320/DD00</b>
5 cable glands 2 x 4 mm <sup>2</sup> , 1 x M 20 x 1.5 + 2 x M 20 x 1.5	<b>07-5311-2420/DD00</b>

#### Terminal boxes EEx e, 750 V (with metric polyamide cable glands/Ex - 95.D.3132)

Name	Order no.
4 cable glands 2 x 4 mm <sup>2</sup> 1 x M 20 x 1.5 (6 to 12), 2 x M 20 x 1.5 (5 to 9) EEx e	<b>07-5311-9014</b>
3 x M 20 x 1.5 (6 to 12) EEx e	<b>07-5311-2320/FF00</b>
1 x M 20 x 1.5 (10 to 14), 2 x M 20 x 1.5 (6 to 12) EEx e	<b>07-5311-9016</b>
5 cable glands 2 x 4 mm <sup>2</sup> 1 x M 20 x 1.5 (6 to 12), 2 x M 20 x 1.5 (5 to 9) EEx e	<b>07-5311-9015</b>
3 x M 20 x 1.5 (6 to 12) EEx e	<b>07-5311-2420/FF00</b>
1 x M 20 x 1.5 (10 to 14), 2 x M 20 x 1.5 (6 to 12) EEx e	<b>07-5311-9017</b>

Terminal box with Pg threads on request

#### Terminal boxes EEx i (with metric polyamide cable glands/Ex - 95.D.3132)

Name	Order no.
4 cable glands 2 x 4 mm <sup>2</sup> , 3 x M 20 x 1.5 (6 to 12) EEx i	<b>07-5311-9009</b>
5 cable glands 2 x 4 mm <sup>2</sup> , 3 x M 20 x 1.5 (6 to 12) EEx i	<b>07-5311-9010</b>



## (1) EC-TYPE-EXAMINATION CERTIFICATE (Translation)



(2) Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres - **Directive 94/9/EC**

(3) EC-type-examination Certificate Number:

**PTB 00 ATEX 1099**

(4) Equipment: Branch box, type 07-5311-..../....

(5) Manufacturer: BARTEC Componenten und Systeme GmbH

(6) Address: D-97980 Bad Mergentheim

(7) This equipment and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

(8) The Physikalisch-Technische Bundesanstalt, notified body No. 0102 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Annex II to the Directive.

The examination and test results are recorded in the confidential report PTB Ex 00-10187.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

**EN 50014:1997**

**EN 50019:1994**

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This EC-type-examination Certificate relates only to the design and construction of the specified equipment in accordance with Directive 94/9/EC. Further requirements of this Directive apply to the manufacture and supply of this equipment.

(12) The marking of the equipment shall include the following:



**II 2 G EEx e II T6**

Zertifizierungsstelle Explosionschutz

By order:

Dr.-Ing. U. Klausmeyer  
Regierungsdirektor



Braunschweig, November 20, 2000

(13)

## SCHEDULE

(14)

### EC TYPE-EXAMINATION CERTIFICATE PTB 00 ATEX 1099

(15) Description of equipment

The branch box of type 07-5311-..../.... comprises a housing made from plastic, which accommodates three or four mantle terminals as well as one terminal for the safety conductor.

Cable entries or plugs, which are covered by a separate certificate, are used for connection or for sealing openings in the branch box that are not utilized.

Technical data

Rated voltage: .....	up to	750 V		
Rated current: .....	max.	27 A	20 A	16 A
Conductor size: .....	max.	4 mm <sup>2</sup>	2.5 mm <sup>2</sup>	1.5 mm <sup>2</sup>
Multi-conductor connection .....		2 x	2 x	3 x

(16) Test report PTB Ex 00-10187

(17) Special conditions for safe use

**None**

Notes for manufacture and operation

Only moist cleaning methods shall be used for the branch box at the place of installation or it shall be installed and serviced in such a way that electrostatic charging is prevented.

A warning note "use moist cleaning methods only" is provided on the housing cover.

(18) Essential health and safety requirements

The tests and the favourable results these have produced reveal that the branch box of type 07-5311-..../.... meets the requirements of directive 94/9/EC as well as those of the standards quoted on the cover sheet.

Zertifizierungsstelle Explosionschutz

By order:



Dr.-Ing. U. Klausmeyer  
Regierungsdirektor

Braunschweig, November 20, 2000