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Physikalisch-Technische Bundesanstalt

Braunschweig and Berlin

EC- type examination certificate

Equipment and protection systems for designated use in areas subject to explosion hazards - **Directive 94/9/EC**

EC - type examination certificate number **PTB 02 ATEX 1027 U**

Component	Wiring location of type size 2/3d Atex and size 4d Atex
Manufacturer:	Winkelmann GmbH & Co.
Address:	Im Neuen Felde 88 - 90; 29525 Uelzen; Germany

The design of this electrical component and any acceptable variation thereto are determined in the annex to this EC-type examination certificate as well as in the documents specified there.

The Physikalisch-Technische Bundesanstalt (PTB) as notified body No. 0102 according to Article 9 of the Directive of the European Communities of 23. March 1994 (94/9/EC), confirms the compliance with essential safety- und health requirements for the concept and manufacturing of equipment and protection systems for designated use in areas subject to explosive hazards according Appendix II of the Directive.

The results of the examination are recorded in the confidential test report PTB Ex 02-12010.

The essential safety- and health requirements are fulfilled by the compliance with

EN 50014:1997 + A1 + A2

EN 50018:2000

The mark "U" behind the certification number indicates this certificate must not be confused with a certificate intended for an equipment or a protection system. This partial certification is to be used as a basis for a certificate of an equipment or protection system only.

This EC - type examination certification does only apply to the concept and examination of the specified component according Directive 94/9/EC. Further requirements of this Directive apply to the production and the issue of the component. These requirements are not covered by this certification.

The marking of the equipment must contain the following information:

 **II 2G EEx d IIC T3...T6**

Certifying body for explosion protection
On behalf

Braunschweig,

(Signature)

EC - type examination certificates without signature and without seal are not valid.
This EC - type examination certificate may only be distributed without any alteration.
Extracts or changes may only be made with the authority of the Physikalisch-Technische Bundesanstalt.

Physikalisch-Technische Bundesanstalt

ANNEX

to the EC- type examination certificate PTB 02 ATEX 1027 U

Description of the component

The wiring locations of the types size 2/3d Atex and size 4d Atex in flameproof enclosure "d" made of steel for attaching to explosion-proof machinery, mainly DC motors, equipped with particularly certified wire connection lead-ins, cable entries and plugs.

Max. permissible range of the ambient temperatur is +100°C down to -60° C.

Test report PTB Ex 02-12010

Special conditions

none;

Notes for manufacture and operation

Only such components (lead-ins, cable entries) are allowed for attachment which are in technical compliance with the standard mentioned on the cover sheet, suitable for the condition of use and with a particular certification.

To close the flameproof area at least screws with a class of strength 8.8 are to be used.

Basic safety,- and health requirements

The carried out examinations and their positive results show that the wiring locations fulfill the requirements of the Directive 94/9/EC and the standards mentioned on the cover sheet.

Certifying body for explosion protection
On behalf

Braunschweig,

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1. Amendment

acc. to Directive 94/9/EC Annex III Item 6

to EC-Type Examination Certificate PTB 02 ATEX 1027 U

Equipment: Connection chamber type 2/3d ATEX and 4d ATEX

Marking:  G Ex d IIC

Manufacturer: Winkelmann GmbH & Co.

Address: Im Neuen Felde 88 - 90; 29525 Uelzen; Germany

Description of the amendments and modifications

The existing authorization changed to the new generation of standards EN 60079-0 ff.

Applied standards

EN 60079-0:2006

EN 60079-1:2004

Test report: **PTB Ex 07-17218**

Special conditions

The ignition breakdown shaft gaps may only be repaired in compliance with the constructive specifications from the manufacturer. Repair according to the values in Table 1 and 2 of EN 60079-1 is not permissible.

Certifying body for explosion protection
By order

Braunschweig, November 1, 2007

(Signature)

EC-type examination certificates without signature and seal are invalid.
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Physikalisch-Technische Bundesanstalt ■ Bundesalle 100 D-38116 ■ Braunschweig