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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 06 ATEX 1045 U**

Equipment: Wiring location 315 d 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 06-16042**.

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

EN 60079-0:2004

EN 60079-1:2004

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 equipment according Directive 94/9/EC. Further requirements of this Directive apply to the production and the issue of the equipment. These requirements are not covered by this certification.

The marking of the equipment must contain the following information:

 **II 2G Ex d IIB**

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 06 ATEX 1045 U

Description of the equipment

The equipment is a terminal compartment engineered as ignition protection category „d“, flameproof enclosure. The cover of the compartment forms a flat cleavage with the housing. The cleavage between the duct plate and the housing is engineered as compound cleavage.

The electrical connection is realized by separately certified bushing conductor studs, line bushings or cable- and line entries.

Maximum allowed ambient temperature range: -60°C to 100°C. This range may be restricted by the selection of the connector boxes and components.

Test report PTB Ex 06-16042

Special conditions

For installation/attaching of any components (wiring locations, bushings, cable entries, connecting parts) only those parts are permitted, which technically comply with the standards mentioned on the cover sheet, which are suitable for the operating conditions and for which a separate certificate is available. Special conditions of the components must be observed and the components may be included in the qualification test.

Basic safety,- and health requirements

Shaft gaps safe from breakdown of ignition at our device exceed the minimum requirements acc. to EN 60079-1, table 1+2. In case of repair of the gaps contact the manufacturer please. A repair acc. to the values shown in the table 1+2 EN 60079-1 is not permissible.

further notes for secure operation:

For installation/attaching of any components (wiring locations, bushings, cable entries, connecting parts) only those parts are permitted, which technically comply with the standards mentioned on the cover sheet, which are suitable for the operating conditions and for which a separate certificate is available. Special conditions of the components must be observed and the components may be included in the qualification test.

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