

(1) EC-TYPE-EXAMINATION CERTIFICATE

ZELM ex

- (2) Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres - **Directive 94/9/EC**
- (3) EC-TYPE-EXAMINATION CERTIFICATE Number:

ZELM 04 ATEX 0234 X

- (4) Equipment: **Cable Connector type Ex GH – ALAT ... and Ex GHT ALAT ... with associated heating cables**
- (5) Manufacturer: **Erich Ott**
- (6) Address: **D-65189 Wiesbaden**
- (7) This equipment and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.
- (8) The Prüf- und Zertifizierungsstelle ZELM Ex, notified body No. 0820 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 ZELM Ex 1430412343.
- (9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN 50014 : 1997+A1+A2 EN 50019 : 2000 EN 50028 : 1987
- (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, examination and tests of the specified equipment or protective system in accordance to the Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this Certificate.
- (12) The marking of the equipment shall include the following:



II 2 G EEx em II T1 to T6

Braunschweig, December 06, 2004

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(13)

SCHEDULE

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(14) EC-TYPE-EXAMINATION CERTIFICATE ZELM 04 ATEX 0234 X

(15) Description of equipment

The Cable Connectors are used in connection with the associated heating cables to construct electric-heating systems in explosion hazardous areas, for example for the heating of tube lines, containers and open areas.

Elektrical Data

Rated voltage max. 230/400 V – DC - or alternating voltage
Rated current ≤ 18 A

(16) Report No.

ZELM Ex 1430412343

(17) Special conditions for safe use

1. The instruction manual has to be considered, especially concerning the relevant maximum temperatures corresponding to the specific versions.
2. The temperature classification results in consideration with the maximum supplied electrical power, the conditions of installation and the relevant ambient and operational conditions. For standard operations the conventions are made in accordance to the instructions of the manufacturer under consideration of the conventions of the instruction manual. A phase failure in three-phase supply systems has to be considered.
3. To get constant product temperatures the heating cables require a temperature controller. To meet the maximum permitted maximum temperature limit an additional temperature limiter is needed. The equipment named above has to be suitable for the operational demands.
4. The combination of the specific cable connector and the associated heating cable with separate EC-type-examination Certificate is committed by the manufacturer in accordance to this EC-type-examination Certificate and is not allowed to be modified.
5. A relevant overcurrent protection system is to be pre-connected to each heating system for the safe prevention of even not permissible earth leakage currents.
6. A dielectric strength test is to be carried out before commissioning.

(18) Essential Health and Safety Requirements

met by standards

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EC-type-examination Certificates without signature and stamp are not valid. The certificates may only be circulated without alteration. Extracts or alterations are subject to approval by the Prüf- und Zertifizierungsstelle ZELM ex. The English version is based on the German text. In the case of dispute, the German text shall prevail.

ZELM ex
Prüf- und Zertifizierungsstelle
Siekgraben 56 · D-38124 Braunschweig