



(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 97 ATEX 2271**



(4) Equipment: Transmitter for angular position KINAX 3W2 type 708-...  
resp. KINAX WT707 type 707-...  
resp. KINAX WT706 type 706-...  
...

(5) Manufacturer: Camille Bauer AG

(6) Address: Aargauerstrasse 7, CH-5610 Wohlen

(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 97-27381.

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

**EN 50014:1997**

**EN 50020:1994**

(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 ia IIC T6**

Zertifizierungsstelle Explosionsschutz

By order

Dr.-Ing. U. Johannsmeyer  
Regierungsdirektor



Braunschweig, 21.01.1998

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EC-type-examination Certificates without signature and official stamp shall not be valid. The certificates may be circulated only without alteration. Extracts or alterations are subject to approval by the Physikalisch-Technische Bundesanstalt. In case of dispute, the German text shall prevail.

(13) **SCHEDULE**

(14) **EC-TYPE-EXAMINATION CERTIFICATE No. PTB 97 ATEX 2271**

(15) Description of equipment

The angular position transmitter KINAX 3W2 of type 708-..., KINAX WT 707 of type WT 707-... and KINAX WT 706 of type WT 706-... convert the angular position of a shaft contactlessly to a proportional electrical output signal.

A variation of the shaft position effects a variation of a capacitance, which is converted to a proportional current alteration by the downstream electronics.

The ranges of the ambient temperature dependent on the temperature class are shown in the following table.

Minimum ambient temperature	Maximum ambient temperature	Temperature class
-40 °C	60 °C	T 6
-40 °C	75 °C	T 5

Electrical data

Supply- and measuring output.....type of protection Intrinsic Safety EEx ia IIC  
(terminals 1, 2, 3) for connection to a certified intrinsically safe circuit only.

Maximum values:  $U_i = 30 \text{ V}$   
 $I_i = 160 \text{ mA}$   
 $P_i = 1 \text{ W}$

Effective internal capacitance:  $C_i \leq 10 \text{ nF}$   
The effective internal inductance is negligibly small.

The transmitter for angular position KINAX 3W2 of type 708-... must be mounted into a housing which meets the requirement of a degree of protection IP 20 according to IEC 529.

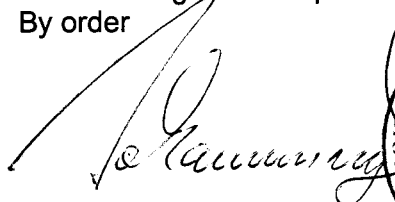
Since the angular position transmitters KINAX WT 707 of type WT 707-... and KINAX WT 706 of type WT 706-... meet the requirements of a degree of protection IP 20 according to IEC 529 mounting of these variants into an additional housing is not necessary.

- (16) Report PTB Ex 97-27381
- (17) Special conditions for safe use  
not applicable
- (18) Essential health and safety requirements  
met by standards

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