



Prüf- und Zertifizierungsstelle

ZELM Ex



(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:

ZELM 99 ATEX 0006

- (4) Equipment: **Angular position transmitter KINAX WT 710 type 710-2**
- (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 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 0379918007.
- (9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 50 014: 1997

EN 50 020: 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:

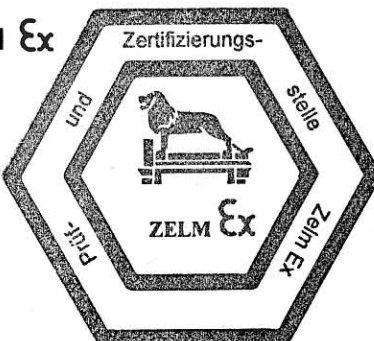


II 2 G EEx ia IIC T6

Zertifizierungsstelle **ZELM Ex**

Braunschweig, September 08, 1999


Dipl.-Ing. Harald Zelm



Sheet 1/2

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



(13)

SCHEDULE

(14)

EC-TYPE-EXAMINATION CERTIFICATE ZELM 03 ATEX 0123

(15) Description of equipment

The angular position transmitter KINAX 2W2 type 760-2... 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 maximum permissible ambient temperature conducts depending on the maximum load P_i of the intrinsically safe output circuit and the temperature class according to the following table:

Maximum load P_i	Temperature class		
	T6	T5	T4
1000 mW	40 °C	55 °C	75 °C
900 mW	44 °C	59 °C	75 °C
800 mW	49 °C	64 °C	75 °C
700 mW	54 °C	69 °C	75 °C
660 mW	56 °C	71 °C	75 °C

(Table 1)

The lowest permissible ambient temperature is -40 °C.

Electrical data

Output circuit

type of protection Intrinsic Safety EEx ia IIC
only for connection to a certified intrinsically safe circuit.

maximum values: $U_i = 30$ V
 $I_i = 160$ mA
 $P_i \leq 1$ W (siehe Tabelle 1)

maximum effective internal capacitance $C_i = 6,6$ nF
The maximum effective internal inductance is negligibly small.

References:

The configuration via the programming circuit is only permitted in non-hazardous locations by a short-time connection of a standard personal computer via the programming cable type PK 610 with the EC-type-examination Certificate ZELM 99 ATEX 0011 to suitable connections.

The instruction manual has to be considered, in particular with regard to an appropriate degree of protection (at least IP 20 according to EN 60529:1991)



Prüf- und Zertifizierungsstelle

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Schedule to EC-TYPE-EXAMINATION CERTIFICATE ZELM 03 ATEX 0123

- (16) Report No.
ZELM Ex 0560215172
- (17) Special conditions for safe use
not applicable
- (18) Essential Health and Safety Requirements
met by standards

Zertifizierungsstelle ZELM Ex


Adolf Gruber



Braunschweig, February 20, 2003

Sheet 3/3

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ZELM Ex



1. Supplement

(Supplement according to EC-Directive 94/9 Annex III letter 6)
to EC-type-examination Certificate

ZELM 03 ATEX 0123

Equipment: **Angular position transmitter KINAX 2W2 type 760-2...**
Manufacturer: **Camille Bauer AG**
Address: **Aargauerstrasse 7, CH-5610 Wohlen**

Description of supplement

The Angular position transmitter KINAX 2W2 type 760-2... will be extended by an alternative version.

The type designation of this new version is:

Angular position transmitter KINAX WT717 type 717-2

This new version is build-in in an aluminum housing.

All technical Data remain unchanged and are valid also for this alternative version.

References:

The instruction manual has to be observed.

The required housing protection level (at least IP 20 according to EN 60529: 1991) of the Angular position transmitter KINAX WT717 type 717-2 is fulfilled because of the construction.

Report No.

ZELM Ex 1210315259

Special conditions for safe use

not applicable

Essential Health and Safety Requirements

The Essential Health and Safety Requirements are further met by adherence to the standards referred in the EC-type-examination certificate.

Zertifizierungsstelle ZELM Ex



Braunschweig, September 13, 2004

Adolf Gruber

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