



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEX ZLM 12.0008X** issue No.: **0** Certificate history: _____

Status: **Current**

Date of Issue: **2012-12-19** Page 1 of 4

Applicant: **Camille Bauer AG**
Aargauerstraße 7
CH-5610 Wohlen
Switzerland

Electrical Apparatus: **Transmitter for angular position KINAX 3W2 type 708-A..., KINAX WT 707 type 707-A..., -B..., -C..., KINAX SR 709 type 709-A...**
Optional accessory:

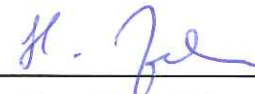
Type of Protection: **Intrinsic Safe**

Marking: **Ex ia IIC T6 resp. T5 resp. T4 Gb**

Approved for issue on behalf of the IECEx Certification Body: **Dipl.Ing. Harald Zelm**

Position: **Head of Certification Body**

Signature:
(for printed version)



2012-12-19

Date:

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

ZELM Explosionsschutz GmbH
Siekgraben 56
D-38124 Braunschweig
Germany

ZELM 



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Manufacturer: **Camille Bauer AG**
Aargauerstraße 7
CH-5610 Wohlen
Switzerland

Additional Manufacturing location
(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2011 Explosive atmospheres - Part 0: General requirements
Edition: 6.0

IEC 60079-11 : 2011-06 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition: 6.0

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

[DE/ZLM/ExTR12.0009/00](#)

Quality Assessment Report:

[DE/PTB/QAR12.0006/00](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The KINAX 3W2 type 708-A..., KINAX WT 707 type 707-A..., -B..., -C... and KINAX SR 709 type 709-A... transmitter for angular positions converts the angular position of the input shaft without any contact into an electric output signal proportionate to the input angle.
A change of the rotor position causes a capacity change which is converted into a proportional current change in downstream electronics.

CONDITIONS OF CERTIFICATION: YES as shown below:

1. The instruction manual has to be observed, especially regarding the mounting of the angular position transmitter KINAX 3W2 of type 708-A... into a housing that provide the Protection Class of at least IP 20 according EN 60529.
The angular position transmitters KINAX WT 707 type 707-A..., -B..., -C... and KINAX SR 709 type 709-A... provides the Protection Class of at least IP 20 according EN 60529 hence an additional housing is not required for these versions. According to the installation environment of the transmitters for instance outdoors a higher degree of protection might be necessary.
2. The permitted ambient temperature range according to the temperature class has to be observed.
3. The angular position transmitters are only intended for acquisition of the angular position of the shaft. The usage as a rotational speed sensor is not permitted.
4. During installation and operation hazardous electrostatic charges shall be avoided for the KINAX KINAX WT 707 type 707-A..., -B..., -C... with plastic housing.



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EQUIPMENT(continued):

Electrical Data:

output circuit in type of protection Intrinsic Safe Ex ia IIC
(terminals Out, V+, V-) only for connection to a certified intrinsic safe
circuit with the following maximum values:
 $U_i = 30 \text{ V}$
 $I_i = 160 \text{ mA}$
 $P_i \leq 1 \text{ W}$
maximum effective internal capacitance:
 $C_i = 10 \text{ nF}$
maximum effective internal inductance
negligible small

Ambient temperature range depends on the temperature class:

Temperature class	Ambient temperature range
T6	$-40 \text{ °C} \leq T_{\text{amb}} \leq 55 \text{ °C}$
T5	$-40 \text{ °C} \leq T_{\text{amb}} \leq 70 \text{ °C}$
T4	$-40 \text{ °C} \leq T_{\text{amb}} \leq 75 \text{ °C}$