



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.: issue No.:

Status:

Date of Issue: **2012-09-04** Page 1 of 4

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

Electrical Apparatus: **Transmitter for angular position type KINAX HW730-4*** resp. HW730-5*****
Optional accessory:

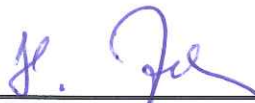
Type of Protection: **Intrinsic Safety, dust ignition protection by enclosure "t"**

Marking: **Ex ia IIC T4 Gb resp.
Ex ia IIIC T80°C Db resp.
Ex tb IIIC T80°C Db**

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

Position: Head of Certification Body

Signature:
(for printed version)



2012-09-04

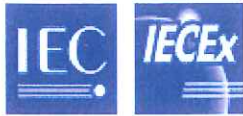
Date:

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

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 Edition: 6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-11 : 2011-06 Edition: 6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
IEC 60079-31 : 2008 Edition: 1	Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure 't'

*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/ExTR12.0002/00](#)

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 transmitter for angular position type KINAX HW730-4*** resp. HW730-5*** convert the angular position of a shaft contact free into a current signal that is proportional to the angular of the shaft.

Type designation code:
KINAX HW730-a ***

- a, Certification: 4, type of protection „Intrinsic Safety“
5, type of protection „protection by enclosure“

The signs „**“ in the type designation code can be replaced by letters or numbers, these alphanumeric signs indicate different versions of the device, which have no influence on the explosion protection concept of the device.

permissible ambient temperature range: $-40^{\circ}\text{C} \leq T_{\text{amb}} \leq 75^{\circ}\text{C}$

CONDITIONS OF CERTIFICATION: YES as shown below:

The transmitter for angular position type KINAX HW730-4*** and HW730-5*** are only intended for acquisition of the angular position of the shaft. The usage as a rotational speed sensor is not permitted.
The instruction manual has to be observed.



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EQUIPMENT(continued):

Electrical Data KINAX HW730-4***:

Output circuit type of protection Intrinsic Safety Ex ia IIC resp. Ex ia IIIC
(Terminals + -) only for connection to an certified intrinsic safe circuit
with following maximum values:
 $U_j = 30 \text{ V}$
 $I_i = 160 \text{ mA}$
 $P_i \leq 1 \text{ W}$
maximum effective internal capacitance:
 $C_i = 22 \text{ nF}$
maximum effective internal inductance:
 $L_i = 7,3 \mu\text{H}$

Electrical Data HW730-5***:

Output circuit
(Terminals + -) only for connection to a circuit with following maximum values:
 $U = 24 \text{ VDC (+30\%, -50\%)}$
 $I = 3,8 - 20,5 \text{ mA}$