

(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 12 ATEX 0498 X

- (4) Equipment: **Transmitter for angular position type KINAX WT720-2*** resp. WT720-3*****
- (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 1091219949.
- (9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
- EN 60079-0:2012 EN 60079-11:2012 EN 60079-31:2009**
- (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 Ex ia IIC T4 Gb resp.
II 2 D Ex ia IIIC T80°C Db resp.
II 2 D Ex tb IIIC T80°C Db**

Braunschweig, 2013-04-09

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Zertifizierungsstelle ZELM EX
Dipl.-Ing. Harald Zelm

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Sheet 1 of 3

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.

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(13)

SCHEDULE

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(14) **EC-TYPE-EXAMINATION CERTIFICATE ZELM 12 ATEX 0498 X**

(15) Description of equipment

The transmitter for angular position type KINAX WT720-2*** resp. WT720-3*** 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 WT720-a * * *

a, Certification: 2, type of protection „Intrinsic Safety“
3, 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: $-40\text{ °C} \leq T_{\text{amb}} \leq 70\text{ °C}$

Electrical Data KINAX WT720-2***:

Output circuit (Terminals + -) type of protection Intrinsic Safety Ex ia IIC resp. Ex ia IIIC
only for connection to an certified intrinsic safe circuit
with following maximum values:
 $U_i = 30\text{ V}$
 $I_i = 160\text{ mA}$
 $P_i \leq 1\text{ W}$
maximum effective internal capacitance:
 $C_i = 22\text{ nF}$
maximum effective internal inductance:
 $L_i = 7.3\text{ }\mu\text{H}$

Electrical Data KINAX WT720-3***:

Output circuit (Terminals + -) only for connection to a circuit with following maximum values:
 $U = 24\text{ VDC (+30%, -50%)}$
 $I = 3.8 - 20.5\text{ mA}$

Sheet 2 of 3

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**Schedule
to EC-Type-Examination Certificate ZELM 12 ATEX 0498 X**

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(16) Report No.

ZELM Ex 1091219949

(17) Special conditions for safe use

1. The transmitter for angular position type KINAX WT720-2*** resp. WT720-3*** are only intended for acquisition of the angular position of the shaft. The usage as a rotational speed sensor is not permitted.
2. The assembled cable glands are tested with a reduced tensile force in accordance with clause A.3.1 of EN 60079-0 and shall only be used for fixed installation of Group II apparatus. The user shall ensure adequate clamping of the cable.
3. The assembled cable glands are tested for low risk of mechanical danger and shall be protected against higher impact energy levels.
4. The instruction manual has to be observed.

(18) Essential Health and Safety Requirements

Fulfilled by standards.

Braunschweig, 2013-04-09

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Zertifizierungsstelle ZELM ex
Dipl.-Ing. Harald Zelm

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