

## Certificate of Conformity

(1)

(2) Equipment and protective systems intended for use in potentially explosive atmospheres – **Directive 2014/34/EU**

(3) Certificate Number

**EPS 18 ATEX 1 017 X**

**Revision 1**

(4) Equipment: Inclination sensor, type: SB2I

(5) Manufacturer: SEIKA Mikrosystemtechnik GmbH

(6) Address: Söllerweg 1  
87487 Wiggensbach-Ermengerst  
Germany

(7) This equipment and any acceptable variation thereto are specified in the annex to this Certificate of Conformity and the documentation therein referred to.

(8) Bureau Veritas Consumer Products Services Germany GmbH certifies based on a voluntary assessment 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 of the Directive 2014/34/EU. The examination and test results are recorded in the confidential documentation under the reference number 09TH0381.

(9) Compliance with the essential health and safety requirements has been assured by compliance with:

**EN IEC 60079-0:2018**

**EN 60079-7:2015,  
EN IEC 60079-7:2015/A1:2018**

**EN 60079-31:2014**

(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 annex to this certificate.

(11) This Certificate of Conformity relates only to the design and the construction of the specified equipment in accordance with Directive 2014/34/EU. Further requirements of this Directive apply to the manufacture of this equipment and its placing on the market. Those requirements are not covered by this certificate.

(12) The marking of the equipment shall include the following:

II 3G Ex ec IIC T4 Gc

II 3D Ex tc IIIC T135°C Dc



Certification department of explosion protection

Ulrich Feike

Tuerkheim, 2024-02-05

Certificates without signature and seal are void. This certificate is allowed to be distributed only if not modified. Extracts or modifications must be authorized by Bureau Veritas Consumer Products Services Germany GmbH.

(13)

## Annex

(14) **Certificate of Conformity EPS 18 ATEX 1 017 X**

**Revision 1**

(15) Description of equipment:

The SB2I is a pressure die cast aluminum sensor housing with two integrated sensors for measuring inclinations and/or accelerations. As well as the sensor, the box contains two independent signal conditioners, each with a 4-20 mA, 2-wire output and two separate voltage supplies feeding off the corresponding current loop, one for each sensor.

Electrical data:

The sensor with type of protection "e" and "t" can be operated without an isolator in zone 2 and zone 22.

Nominal values per channel:

$U_n = 30 \text{ V}$

$I_n = 40 \text{ mA}$

(16) Reference number: 09TH0381

(17) Special conditions for safe use:

Ambient temperature range:  $-40 \text{ °C} \leq T_a \leq +85 \text{ °C}$

(18) Essential health and safety requirements:

Met by compliance with standards.

Certification department of explosion protection

Tuerkheim, 2024-02-05

Ulrich Feike

