



[1] **TYPE EXAMINATION CERTIFICATE - Translation**

[2] Equipment
of equipment-groups I and II, equipment-categories M2 and 2 plus 3

[3] Type examination certificate number **IBExU16ATEXB001 X** | Issue 2

[4] Product: **Actuators**
Types: a) Nano+
b) Nano+ Z2
c) Tensor+ Z2 / Z22
d) Tensor+ Z2 / Z22 R

[5] Manufacturer: ARIS Stellantriebe GmbH

[6] Address: Rotter Viehtrift 9
53842 Troisdorf
GERMANY

[7] This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

[8] IBExU Institut für Sicherheitstechnik GmbH certifies that this product has been found to comply with the essential health and safety requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014.

The examination and test results are recorded in the confidential test report IB-18-3-0059.

[9] Compliance with the essential health and safety requirements has been assured by compliance with: EN 60079-0:2012 + A11:2013, EN 60079-7:2015, EN 60079-15:2010 and EN 60079-31:2014 except in respect of those requirements listed at item [18] of the schedule.



[10] If the sign "X" is placed after the certificate number, it indicates that the product is subject to the specific conditions of use specified in the schedule to this certificate.

[11] This type examination certificate relates only to the design of the specified equipment and not to specific items of equipment subsequently manufactured or supplied.

[12] The marking of the product mentioned in [4] a) shall include the following:

 **II 3D Ex tc IIIC T80 °C Dc X**
-15 °C ≤ Ta ≤ +50 °C

The marking of the product mentioned in [4] b) shall include the following:

 **II 3G Ex ec IIC T4 Gc X**
-15 °C ≤ Ta ≤ +50 °C
oder
 **II 3D Ex tc IIIC T80 °C Dc X**
-15 °C ≤ Ta ≤ +50 °C

The marking of the product mentioned in [4] c) shall include the following:

Ex II 3G Ex ec IIC T4 Gc X
Ex II 3D Ex tc IIIC T80 °C Dc X
-15 °C ≤ Ta ≤ +50 °C

The marking of the product mentioned in [4] d) shall include the following:

Ex II 3G Ex ec nC IIB T4 Gc X
Ex II 3D Ex tc IIIC T80 °C Dc X
-15 °C ≤ Ta ≤ +50 °C

IBExU Institut für Sicherheitstechnik GmbH
Fuchsmühlenweg 7
09599 Freiberg, GERMANY

Tel: + 49 (0) 37 31 / 38 05 0
Fax: + 49 (0) 37 31 / 38 05 10

By order



Dipl.-Ing. (FH) A. Henker

IBExU
Institut für Sicherheitstechnik GmbH
Fuchsmühlenweg 7
09599 Freiberg/Sachsen
Telefon (03731) 3805-0
Telefax (03731) 38 05 10

- Stamp -

Certificates without signature and stamp are not valid. Certificates may only be duplicated completely and unchanged. In case of dispute, the German text shall prevail.

Freiberg, 2019-01-23

[13] **Schedule**

[14] **Certificate number IBExU16ATEXB001 X | Issue 2**

[15] **Description of product**

ARIS actuators are used to operate control and shut-off devices (flap valves, valves, taps, shifter valves, metering pumps, etc.).

Ambient temperature range: $-15\text{ °C} \leq T_a \leq +50\text{ °C}$

Variations compared to issue 1 of this certificate:

The certification of the actuators is supplemented by the two options "sight glass" and "handwheel". Ambient temperature increased to +50 °C.

[16] **Test report**

The test results are recorded in the confidential test report IB-18-3-0059 of 18 January 2019. The test documents are part of the test report and they are listed there.

Summary of the test results

The actuators Nano+ fulfil the requirements of type of protection protection by enclosure "t" for explosion-protected equipment of the Group II and Category 3D.

The actuators Nano+ Z2, Tensor+Z2 / Z22 and Tensor+Z2 / Z22 R fulfil the requirements of type of protection increased safety "e" for explosion-protected equipment of the Group II and Category 3G as well as type of protection "protection by enclosure t" for explosion-protected equipment of the Group II and Category 3D.

[17] **Specific conditions of use**

Only cable glands with O-ring seal may be used.

When using the actuator in areas with potentially explosive dust atmospheres, it must be ensured that no potentially highly charging processes are to be expected in the immediate vicinity of the device!

[18] **Essential health and safety requirements**

In addition to the essential health and safety requirements (EHSRs) covered by the standards listed at item [9], the following are considered relevant to this product, and conformity is demonstrated in the test report: none

[19] **Drawings and Documents**

The documents are listed in the test report.

IBExU Institut für Sicherheitstechnik GmbH
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