

(1) EC-TYPE EXAMINATION CERTIFICATE



- (2) Equipment and Protective Systems intended for use in Potentially Explosive Atmosphere - **Directive 94/9/EC**
- (3) EC-Type-Examination Certificate Number

TÜV 12 ATEX 7187 X

- (4) Equipment: **Limit switching device** **Type: WSHEx ***
- (5) Manufacturer: **AUMA RIESTER GmbH & Co. KG**
- (6) Address: **Aumastr. 1
79379 Müllheim, Germany**

- (7) This equipment and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.
- (8) The TÜV Rheinland Notified Body for ex-protected products of TÜV Rheinland Industrie Service GmbH, Notified Body No. 0035 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies 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 atmosphere, given in Annex II to the Directive.

The examination and test results are recorded in the confidential report 557/Ex187.00/12

- (9) Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule of this certificate, has been assessed by reference to:

EN 60079-0: 2009 EN 60079-31: 2009 EN 60079-7: 2007 EN 60079-11: 2007

- (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 and specification for construction of the equipment or protective system. It does not cover the process for actual manufacture or supply of the equipment or protective system, for which further requirements of the directive are applicable.
- (12) The marking of the equipment shall include the following:

II 2 G	Ex e IIC T4 Gb	or rather	Ex e ib IIC T4 Gb
II 2 D	Ex tb IIIC T130 °C		

TÜV Rheinland ATEX ExNB

Cologne, 22nd December 2012

Dipl.-Ing. Heinz Farke



(Translation)

This EC-Type-Examination Certificate without signature and stamp shall not be valid.

It may be circulated only without alteration.

Extracts or alterations are subject to approval by the:

TÜV Zertifizierungsstelle für Ex-Schutz-Produkte
TÜV Rheinland Industrie Service GmbH, Am Grauen Stein, 51105 Köln
Tel. +49 (0) 221 806-0 Fax. + 49 (0) 221 806 114

(13) Annex

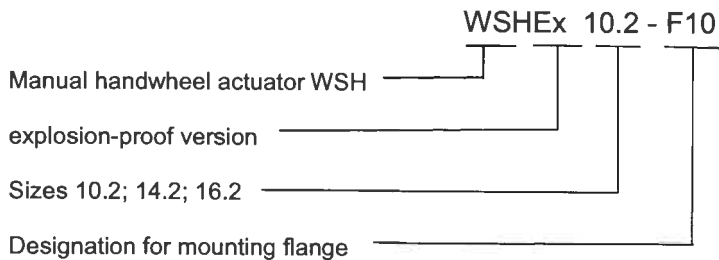
(14) **EC - Type Examination Certificate**
TÜV 12 ATEX 7187 X

(15) Description of equipment:

15.1 Equipment and type:

The limit switching device type WSHEx * for manually operated valves is designed for manual operation of industrial valves and gearboxes via handwheel. This so called "handwheel actuator" comprises a switch compartment with counter gear mechanism and a terminal compartment. The switch and terminal compartment are in type of protection Ex e. For monitoring purposes the switch compartment is equipped with microswitches and optionally heater and/or position transmitter type RWG5020.2Ex in type of protection Ex ib.

The "*" stands for the following:



Refer to the operation manual for further details.

15.2 Technical Data

Microswitch:

Voltage U_{max} :	250 V AC	/	250 V DC
Current I_{max} :	5 A AC	/	0,4 A DC

Heater:

Voltage U:	6 ... 250 V
Power P_{max} :	6 W

Position Transmitter 4 .. 20 mA type RWG5020.2Ex according PTB 03 ATEX 2176:

Only for connection to certified intrinsically safe circuit. Maximum values:

$U_i = 28,5 V$; $I_i = 200 mA$; $P_i = 0,9 W$; C_i and L_i are negligible small.

The electronic position transmitter is considered as being earthed in terms of safety.

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For technical data of different types refer to operation manual.

Interiors	Ambient temperature range
Standard	-50°C to +80°C
With position transmitter RWG5020.2EX	-50°C to +60°C
With Heater	-50°C to +40°C

Spreadsheet: Ambient temperature

(16) Test Report No. 557/Ex 187.00/12

(17) Special Conditions for safe use / Remarks for safe usage:

The range of ambient temperature can be seen in the user manual as well as in the spreadsheet above.

Only certified cable entries or screw plugs as blanking elements with the appropriate type of protection shall be used.

Do not open when energized.

(18) Basic Safety and Health Requirements

Fulfilled by afore mentioned standards.

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