



(1) EC-TYPE-EXAMINATION CERTIFICATE (Translation)

(2) Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres - **Directive 94/9/EC**



(3) EC-type-examination Certificate Number:

PTB 10 ATEX 2022

(4) Equipment: Linear drive, type RedPlus-..

(5) Manufacturer: Schischek GmbH

(6) Address: Mühlsteig 45, 90579 Langenzenn, 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 Physikalisch-Technische Bundesanstalt, notified body No. 0102 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 assessment and test report PTB Ex 10-20085 .

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0:2006

EN 60079-11:2007

EN 60079-15:2005

EN 61241-0:2006

EN 61241-1:2004

EN 61241-11:2006

(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 in accordance to the Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.

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

Ex II 3 (1) G Ex nC [ia] IIC-T6 and II 3 (1) D Ex tD A22 [iaD] IP66 T80 °C

Zertifizierungssektor Explosionsschutz
On behalf of PTB:

Braunschweig, November 16, 2010


Dr.-Ing. U. Johannsmeyer
Direktor und Professor



(13)

SCHEDULE

(14)

EC-TYPE-EXAMINATION CERTIFICATE PTB 10 ATEX 2022

(15) Description of equipment

The explosion protected electrical linear drive, type RedPlus-.. is used for the control of armatures. It is intended for the application inside of hazardous areas of zones 2 and 22.

For relationship between temperature class and permissible ambient temperature range, reference is made to the following table:

Temperature class	permissible ambient temperature range
T6	-40 °C ... 40 °C
T5	-40 °C ... 50 °C
T4	-40 °C ... 60 °C

Electrical data

Voltage supply U = 24 ... 240 V AC/DC $\pm 10\%$
(line 1...4) U_m = 253 V

Output circuit (optional).....type of protection Intrinsic Safety Ex ia
(plug connector M12)

Maximum values:

U_o = 10.6 V
I_o = 11 mA
P_o = 30 mW

linear characteristic

L_i negligibly low
C_i negligibly low
L_o = 2 mH
C_o = 830 nF

(16) Assessment and test report PTB Ex 10-20085

Physikalisch-Technische Bundesanstalt

Braunschweig und Berlin

SCHEDULE TO EC-TYPE-EXAMINATION CERTIFICATE PTB 10 ATEX 2022

(17) Special conditions for safe use

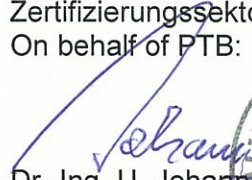
none

(18) Essential health and safety requirements

met by compliance with the standards mentioned above

Zertifizierungssektor Explosionsschutz
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