



Physical Technical Testing Institute
Ostrava-Radvanice



EC-Type Examination Certificate

(1)

(2)

Equipment or Protective Systems Intended for use
in Potentially Explosive Atmospheres
Directive 94/9/EC

(3) EC-Type Examination Certificate Number:

FTZÚ 03 ATEX 0332 U

(4) Component: **Microswitch type d 515 U**

(5) Manufacturer: **Schiebel Antriebstechnik GmbH**

(6) Address: **Josef Benc-Gasse 4, A-1230, Wien**

(7) This Component and any of acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) The Physical Technical Testing Institute, notified body number 1026 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system 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 confidential Report N°

03/0332 dated 19 February 2004

(9) Compliance with Essential Health and safety requirements has been assured by compliance with:
EN 50014:1997+A1+A2 EN 50018:2000

(10) The sign „U” placed after the certificate number indicates that this certificate must not be mistaken for a certificate intended for an equipment or protective system. This partial certification may be used as a basis for certification of an equipment or protective system.

(11) This EC-TYPE EXAMINATION CERTIFICATE relates only to design, examination and testing of the specified component in accordance to the directive 94/9/EC. If applicable, further requirements of the Directive apply to the manufacture and supply of this component.

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

 **II 2G EEx d IIC**

This EC-Type Examination Certificate is valid till: **28.02.2009**

Responsible person:


Mr. Jaroslav Šindler

Head of certification body



Date of issue: 20.02.2004

Number of pages: 1/2

This certificate is granted subject to the general conditions of the Physical Technical Testing Institute.
This certificate may only be reproduced in its entirety and without any change, schedule included.



**Physical Technical Testing Institute
Ostrava-Radvanice**

(13)

Schedule

(14) **EC-Type Examination Certificate N° FTZÚ 03 ATEX 0332 U**

(15) Description of Component:

The microswitch Typ d 515 U is used as auxiliary switch for signal and control circuits. Connection is made by 2,3 or 4 single wires. The body of the microswitch is installed in the enclosure made of plastic material. The microswitch arm (shaft) is made from stainless steel and forms with the enclosure a cylindrical joint. The opposite side of the microswitch with the connection wire is encapsulated with compound. The assembly of the microswitch is classified as EEx d IIC.

Technical specification :

Rated voltage max. 250 V

Rated current max. 5 A

Max. surface temperature of the devices is 81°C at $T_{amb} = 60^{\circ}\text{C}$

(16) Report No. : 03/0332

19 February 2004

(17) Schedule of Limitations:

$-40^{\circ}\text{C} \leq T_{amb} \leq 60^{\circ}\text{C}$

(18) Essential Health and Safety Requirements:

Covered by standard mentioned in (9) of this certificate.

(19) LIST OF DOCUMENTATION

- | | | |
|------------------------|-----------|------------------|
| ➤ Drawings No | 82/07z7 | dated 19.05.2003 |
| | 82/07z7-1 | dated 19.05.2003 |
| ➤ Lay-out of the label | | dated 19.05.2003 |

Responsible person:

Mr. Jaroslav Šindler

Head of certification body



Date of issue: 20.02.2004

Number of pages: 2/2

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**Supplement No. 1 to
EC-Type Examination Certificate**

**Equipment or Protective Systems Intended for use
in Potentially Explosive Atmospheres
Directive 94/9/EC**

(3) EC-Type Examination Certificate Number:

FTZÚ 03 ATEX 0332U

(4) Component **Microswitch type d 515 U**

(5) Manufacturer: **SCHIEBEL Antriebstechnik GmbH**

(6) Address: **Josef Benc Gasse 4, A-1230 Wien, Austria**

(7) This supplement of certificate is valid for: - recertification according to the new standards
- prolongation of certificate validity

(8) Modification of certified component and any of its approved variants are specified in documentation, a list of which is mentioned in the schedule of this certificate.

(9) This supplement to type examination relates only to design, examination and testing of the specified component in accordance to the directive 94/9/EC. If applicable, further requirements of the Directive apply to the manufacture and supply of this component.

(10) Safety requirements of modified parts were fulfilled by satisfying the following standards:

EN 60079-0:2006; EN 60079-1:2007

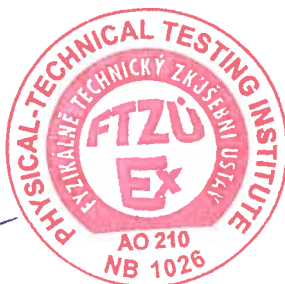
(11) Marking of component shall contain symbols:

Ex II 2G Ex d IIC

(12) This type examination certificate is valid till: **31.05.2012**

Responsible person:


Dipl. Ing. Jaroslav Šindler
Head of certification body



Date of issue: 24.11.2009

Number of pages: 2
Page: 1/2

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**Physical Technical Testing Institute
Ostrava-Radvanice**

(13)

Schedule

(14)

**Supplement No. 1 to
EC-Type Examination Certificate N° FTZÚ 03 ATEX 0332U**

(15) Description of Component:

The device is recertified according to the new standards EN 60079-0 and EN 60079-1.

Any changes in the construction were made.

Any one supplemental test are requested.

(16) Report No. : 03/0332-D1

(17) Schedule of limitations:

17.1 The conditions attached in the main document are valid in whole range.

(18) Essential Health and Safety Requirements:

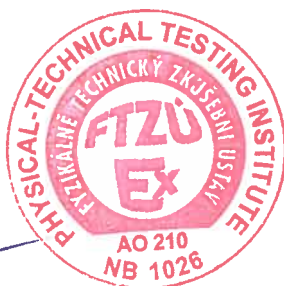
Covered by standards mentioned in (10) of this supplement.

(19) LIST OF DOCUMENTATION

- | | | |
|------------------------|-----------|------------------|
| ➤ Drawings No | 82/07z7 | dated 19.05.2003 |
| | 82/07z7-1 | dated 19.05.2003 |
| ➤ Lay-out of the label | | dated 19.05.2003 |

Responsible person:


Dipl. Ing. Jaroslav Šindler
Head of certification body



Date of issue: 24.11.2009

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Physical Technical Testing Institute
Ostrava-Radvanice



(1) **Supplement No. 2 to
EC-Type Examination Certificate**

(2) **Equipment or Protective Systems Intended for use
in Potentially Explosive Atmospheres
Directive 94/9/EC**

(3) EC-Type Examination Certificate Number:

FTZÚ 03 ATEX 0332U

(4) Component: **Microswitch type d 515 U**

(5) Manufacturer: **Schiebel Antriebstechnik GmbH**

(6) Address: **Josef Benc Gasse 4, A-1230, Wien, Austria**

(7) This supplement of certificate is valid for: - recertification according to the new standards
- prolongation of certificate validity

(8) Modification of certified apparatus (protective system) and any of its approved variants are specified in documentation, list of which is mentioned in schedule of this certificate.

(9) This supplement to type examination certificate is valid only for type examination of design and construction of product sample in accordance with Annex 3 Paragraph 6) of Directive No. 94/9/EC. The Directive contains another requirement, which manufacturer shall fulfil before products are place on market or introduce in service.

(10) Safety requirements of modified parts were fulfil by satisfying of following standards:

EN 60079-0:2009; EN 60079-1:2007

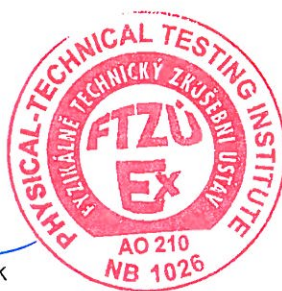
(11) Marking of component shall contain symbols:

II 2G Ex d IIC Gb

(12) This type examination certificate is valid till: **31.07.2017**

Responsible person:

Dipl. Ing. Lukáš Martinák
Head of certification body



Date of issue: 31.07.2012

Number of pages: 2
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**Physical Technical Testing Institute
Ostrava-Radvanice**

(13)

Schedule

(14)

**Supplement No. 2 to
EC-Type Examination Certificate N° FTZÚ 03 ATEX 0332U**

(15) Description of Component:

The device is recertified according to the new standards EN 60079-0:2009 and EN 60079-1:2007.
No changes in the construction were made.
No one supplemental test is requested.

(16) Report No. : 03/0332-D2

(17) Schedule of limitations:

- 17.1 The conditions attached in the main document are valid in whole range.
- 17.2 Maximum design gaps of flameproof joints are smaller than maximum permitted gaps according to standard. Verified values of design gaps are mentioned in documentation, a list of which is given in clause (19) of this supplement.

(18) Essential Health and Safety Requirements:

- 18.1 Covered by standards mentioned in (10) of this Supplement.

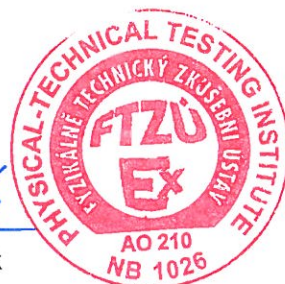
(19) Documentation

- Description of type of construction dated 18.07.2012
- Drawing No.: 82/0740 rev. B dated 20.07.2012

Responsible person:

Dipl. Ing. Lukáš Martinák

Head of certification body



Date of issue: 31.07.2012

Number of pages: 2

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