Physikalisch-Technische Bundesanstalt

Braunschweig und Berlin

(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 99 ATEX 1028

(4) Equipment: Flash lamp type dSLB20

(5) Manufacturer: Funke + Huster Fernsig , Fernsprech- und Signalbau GmbH & Co. KG

(6) Address: D-42551 Velbert, Eintrachtstr. 95

(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 report PTB Ex 99-18139.

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

EN 50014:1997 **EN 50018:1994** **EN 50019:1994**

(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 construction of the specified equipment in accordance with Directive 94/9/EC. Further requirements of this Directive apply to the manufacture and supply of this equipment.

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

II 2 G EEx de IIC T6

Zertifizierungsstelle Explosionsschutz
By order:

Dr.-Ing. U. Klausmeyer
Oberregierungsrat

Braunschweig, May 26, 1999

PHYSIKALISCH-TECHNISCHE BUNDESANSTALT 24

EC-type-examination Certificates without signature and official stamp shall not be valid. The certificates may be circulated only without alteration. Extracts or alterations are subject to approval by the Physikalisch-Technische Bundesanstalt.
In case of dispute, the German text shall prevail.

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(13) # SCHEDULE

(14) ## EC-TYPE-EXAMINATION CERTIFICATE PTB 99 ATEX 1028

(15) Description of equipment

The flash lamp is composed of a lamp compartment of the type of protection flameproof enclosure and a terminal compartment of the type of protection increased safety. A glass cup, linked with the enclosure through a compound, serves as a light-transmitting part. Together with a microprocessor, a temperature detector prevents the temperature class from beeing exceeded in normal operation. A miniature fuse guarantees compliance with the temperature class in case of errors.

Technical data

Range of permissible ambient temperature	-20 °C to 40 °C

Nominal voltage	230 V ±10 % AC	72 to 132 V DC	21 to 53 V DC
Power consumption	≤ 50 W	≤ 33 W	≤ 30 W
Flash energy	up to 15 Ws		
Flash frequency	0,5 to 1 Hz		
Operation mode	contionuous operation		
Activation	flash signal is activated nominal voltage		
Position for use	no limitation		
Miniature fuse F1	T 2 A	T 800 mA	T 2 A
F2	rated cut-off temperature: 102 °C		

(16) Test report PTB Ex 99-18139

(17) Special conditions for safe use

none

(18) Essential health and safety requirements

Met by correspondence to the standards mentioned above.

Zertifizierungsstelle Explosionsschutz
By order:

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