



(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 07 ATEX 1045



(4) Equipment: Repair light, type ISL *00-Ex

(5) Manufacturer: ecom instruments GmbH

(6) Address: Industriestraße 2, 97959 Assamstadt, 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 report PTB Ex 07-17245.

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

EN 60079-0:2004

EN 60079-1:2004

EN 61241-0:2006

EN 61241-1:2004

(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:

II 2 G Ex d IIC T4

II 2 D Ex tD A21 IP6x T 105 °C to 120 °C

Zertifizierungsstelle Explosionsschutz

Braunschweig, July 30, 2007

By order:

Dipl.-Phys.



(13)

SCHEDULE

(14)

EC-TYPE-EXAMINATION CERTIFICATE PTB 07 ATEX 1045

(15) Description of equipment

The repair light, designed as an inspection lamp, is a mobile / portable electrical device. The translucent PC tube is delimited at one end by a cap and at the other by a handle made from aluminium. The threaded joint between PC tube and handle, and between PC tube and cap is glued to form a permanent connection. The handle consists of two parts which are screwed together with a flameproof thread. Both the end caps and the handle are protected by mounted rubber caps.

The device is designed to Flameproof Enclosure "d" type of protection for the gas area and Protection by Enclosure "tD" for the dust area.

Electric energy is fed into the unit through a separately certified cable entry.

Technical data:

Type	ISL 400-Ex (4 lamps)		
Rated voltage	12 V AC	24 V AC	110 V – 230 V AC
Temperature class	T4	T4	T4
Max. surface temperature	T 105 °C	T 105 °C	T 120 °C
Ambient temperature	-20 °C to +40 °C		

Type	ISL 200-Ex (2 lamps)				
Rated voltage	12 V DC	24 V DC	12 V AC	24 V AC	110 V – 230 V AC
Temperature class	T4		T4		T4
Max. surface temperature	T 115 °C		T 105 °C		T 110 °C
Ambient temperature	-20 °C to +50 °C				

(16) Test report PTB Ex 07-17245

(17) Special conditions for safe use

None;

Additional notes for safe operation:

A moist cloth has to be used to clean the lamp. It must carry a warning note to this effect.

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(18) Essential health and safety requirements

Met by compliance with the afore-mentioned Standards.

Zertifizierungsstelle Explosionsschutz

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