



(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 04 ATEX 1046



(4) Equipment: Reflector lamp, types PX 04.. and PXI 04..

(5) Manufacturer: COOPER Crouse-Hinds GmbH

(6) Address: Neuer Weg Nord 49, 69412 Eberbach, 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 04-13430.

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

EN 50014:1997 + A1 + A2

EN 50018:2000

EN 50019:2000

(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 EEx d IIB T2 – T4 or EEx de IIB T2 – T4

Zertifizierungsstelle Explosionsschutz

Braunschweig, July 2, 2004

By order:

Dr. Ing. U. Klausmeyer
Regierungsdirektor



(13)

SCHEDULE

(14)

EC-TYPE-EXAMINATION CERTIFICATE PTB 04 ATEX 1046

(15) Description of equipment

The reflector lamp enclosure is designed to Flameproof Enclosure "d" type of protection. It comprises the lamp and the lamp socket. The glass pane is mounted in the frame by means of a sealing compound. Together with the reflector lamp enclosure, this frame forms a flameproof flat joint. The necessary control elements (ballast, igniters, capacitors) are accommodated in a separate control housing designed to Flameproof Enclosure "d" type of protection.

A terminal compartment, optionally designed to Flameproof Enclosure "d" or Increased Safety "e" type of protection, is provided for electrical connection. Electric power is supplied by means of separately certified cable entries.

Technical data:

Nominal voltage:		230 V / 50 Hz	
Lamp position:		Horizontal	
Ambient temperature:		- 20 °C to 55 °C	- 20 °C to 40 °C
Type	Luminous element *	Temperature class	
PX 0407	HS. (NAV) 70 W	T4	T4
	HI. (HQL) 70 W	T4	T4
PX 0415	HS. (NAV) 150 W	T4	T4
	HI. (HQL) 150 W	T4	T4
PX 0425	HS. (NAV) 250 W	T3	T4
	HI. (HQL) 250 W	T3	T4
	HME (HQL) 250 W	T3	T3
PX 0440	HS. (NAV) 400 W	T3	T3
	HI. (HQL) 400 W	T3	T3
	HM. (HQL) 400 W	T2	T3
PX 0460	HS. (NAV) 600 W	T2	T3
PX 0405	HDI 500 W	T2	T3

- *) HS. (NAV) → High-pressure sodium lamp
 HI. (HQL) → High pressure metal halogen lamp
 HM. (HQL) → High pressure mercury lamp
 HDI → Halogen general lighting system lamp

(16) Test report PTB Ex 04-13430

(17) Special conditions for safe use

None

Additional notes for safe operation

Any components attached or installed (bushings, cable entries, connectors) shall be of a technical standard that complies with the specifications on the cover sheet. They shall be suited for the operating conditions, and be covered by a separate examination certificate.

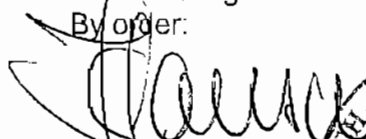
The reflector lamp may only operated when installed in a horizontal position. The corresponding notes included in the operating manual must be complied with.

(18) Essential health and safety requirements

Met by compliance with the aforementioned Standards.

Zertifizierungsstelle Explosionsschutz

By order:



Dr.-Ing. U. Klausmeyer
Regierungsdirektor



Braunschweig, July 2, 2004

1st SUPPLEMENT
according to Directive 94/9/EC Annex III.6
to EC-TYPE-EXAMINATION CERTIFICATE PTB 04 ATEX 1046
(Translation)

Equipment: Reflector lamp, types PX 04.. and PXI 04..

Marking:  II 2 G EEx d IIB T2 – T4 and EEx de IIB T2 – T4

Manufacturer: COOPER Crouse-Hinds GmbH


Address: Neuer Weg Nord 49, 69412 Eberbach, Germany

Description of supplements and modifications

The reflector lamp, types PX 04.. and PXI 04.., is modified to additionally cover the following:

1) It may be employed in areas in which a potentially explosive atmosphere as a mixture of dust and air can occasionally form.

The marking will change to:

 II 2 G EEx d IIB T2 – T4 or EEx de IIB T2 – T4

 II 2 D IP6X T 85 °C – 210 °C

2) The reflector lamp can be operated with the ballast enclosure as certified in EC Type Examination Certificate LOM 03 ATEX 2004 X. This ballast enclosure has only been certified for category 2G and must not be used in explosive dust atmospheres.

This type of reflector lamp will be operated with the starting device type AVS 400 Ex or AVS 150-Ex, housed in the terminal box, which has been certified in EC Type Examination Certificate LOM 02 ATEX 3057 U.

The voltage rating is extended to 220 V – 254 V / 50 Hz and 60 Hz.

Technical data:

Rated voltage:	220 V – 254 V / 50 Hz and 60 Hz	
Lamp position:	Horizontal	
Ambient temperature:	- 20 °C to 55 °C	- 20 °C to 40 °C

Type	Luminous element *	Max. surface temperature	
PX 0407	HS. (NAV) 70 W	100 °C	85 °C
	HI. (HQI) 70 W	105 °C	90 °C
PX 0415	HS. (NAV) 150 W	130 °C	115 °C
	HI. (HQI) 150 W	120 °C	105 °C
PX 0425	HS. (NAV) 250 W	145 °C	130 °C
	HI. (HQI) 250 W	145 °C	130 °C
	HME (HQL) 250 W	165 °C	150 °C
PX 0440	HS. (NAV) 400 W	190 °C	175 °C
	HI. (HQI) 400 W	185 °C	170 °C
	HM. (HQL) 400 W	201 °C	186 °C
PX 0460	HS. (NAV) 600 W	210 °C	195 °C
PX 0405	HDI 500 W	200 °C	185 °C

Applied standards

EN 50014:1997 + A1 + A2

EN 50018:2000

EN 50019:2000

EN 50281-1-1:1998

Test report: PTB Ex 05-15171

Zertifizierungsstelle Explosionsschutz

By order:

Braunschweig, September 27, 2005

Dipl.-Phys. U. Volkel



Physikalisch-Technische Bundesanstalt

Braunschweig und Berlin



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Mein Zeichen: 3.5-1187/08-Th
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Spaltlänge zu PTB 04 ATEX 1046 Strahler PX 04 ...

Sehr geehrter Herr Setzer,

vielen Dank für Ihr Schreiben vom 2008-02-22, dass ich am 2008-02-28 erhalten habe:

Im Rahmen der Fertigungsüberwachung des o.g. Strahlers muss am Flachspalt sichergestellt sein, dass auf der kürzesten Wegstrecke zwischen „Innen“ und „Außen“ (konstruktiv vorgegebenen Spaltlängen beachten) auf einer Länge von mindestens 13 mm keine Beschädigungen oder Lunker zu finden sind. Dies war ein Ergebnis der Zünddurchschlagprüfung am o.g. Strahler mit reduzierter Spaltlänge im Rahmen der Nachprüfung vom 2008-01-15, mit Protokoll 2007/00313.1.0/2324 vom 2008-01-21.

Bitte nehmen Sie dieses Schreiben und das entsprechende Protokoll mit in Ihre Zulassungsunterlagen zur o.g. EG-Baumusterprüfbescheinigung auf. Im Rahmen der Fertigungsüberwachung wird die praktische Umsetzung (Verwendung eines geeigneten Messmittels, Vorhandensein einer Prüfanweisung) überprüft werden.

Mit freundlichen Grüßen

Im Auftrag

Dr.-Ing. Martin Thedens
Oberregierungsrat

Anlage

PTB-Prüfprotokoll 2007/00313.1.0/2324 vom 2008-01-21

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