(1) EC TYPE-EXAMINATION CERTIFICATE

(2) Equipment and Protective Systems intended for use in Potentially Explosive Atmosphere - **Directive 94/9/EC**

(3) EC Type-Examination Certificate Number

TÜV 14 ATEX 7567 X

(4) **Equipment:** Explosion Protected Ceiling Light
type 3312/*/***/(**W)/(******) and type 3314/*/***/(**W)/(******)

(5) **Manufacturer:** WISKA Hoppmann & Mulsow GmbH

(6) **Address:** Kisdorfer Weg 28,
24568 Kaltenkirchen, 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 TÜV Rheinland Zertifizierungsstelle for ex-protected products of TÜV Rheinland Industrie Service GmbH, Notified Body No. 0035 in accordance with Article 9 of the Council Directive 94/9/EC of
23 March 1994, certifies 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 atmosphere, given in Annex II to the Directive.

The examination and test results are recorded in the confidential report 557 / Ex 7567.00 / 14

(9) Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule of this certificate, has been assessed by reference to:

EN 60079-0: 2012 EN 60079-1: 2007 EN 60079-7: 2007 EN 60079-31:2014

except the requirements, which are listed under item (18).

(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 specification for construction of the equipment or protective system. It does not cover the process for actual manufacture or supply of the equipment or protective system, for which further requirements of the directive are applicable.

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

II 2 G Ex de IIC T6...T3 Gb Typ 3312..
II 2 G Ex d IIC T6 ... T3 Gb Typ 3314..
II 2 D Ex tb IIIC T85°C ... T200°C Db

TÜV Rheinland ExNB for explosion protected equipment

Cologne, 2015-11-10

Dipl.-Ing. Klauspeter Graffi

This EC-Type-Examination Certificate without signature and stamp shall not be valid.
This EC-Type-Examination Certificate may be circulated only without alteration. Extracts or alterations are subject to approval by the
TÜV Rheinland Notified Body of TÜV Rheinland Industrie Service GmbH, Am Grauen Stein 51105 Köln
Tel. +49 (0) 221 806-0 Fax. + 49 (0) 221 806 114

www.tuv.com

DAkkS Deutsche Akkreditierungsstelle D-ZE-11052-03-00

TÜVRheinland®
Precisely Right.

TÜVRheinland®
Precisely Right.

(13) Annex to

(14) # EC-Type Examination Certificate
TÜV 14 ATEX 7567 X

(15) **Description of equipment**

15.1 Equipment and type:

Explosion Protected Ceiling Light
type 3312/*/***/(**W)/(******) and type 3314/*/***/(**W)/(******)

15.2 Description

General product information
The Explosion Protected Ceiling Lights are intended for use in gas- or dust explosive atmospheres.

The Ceiling Lights essentially consists of an enclosure made of cast brass a protective glass and a protective brass wire basket.

For gas explosion protection the lamp bodys are designed in type of protection flameproof enclosure. The type 3312/*/***/(**W)/(******) is equipped with a cast-on connecting box in type of protection increased safety. The type 3314/*/***/(**W)/(******) is not equipped with a terminal box, for this cables are directly lead in the flameproof enclosure.

For the dust explosion protection the enclosures fulfill the additional requirements of IEC 60079-31.

The Ceiling Lights can be equipped with separately tested and certified cable glands in the respective type of protection.

Type code:

331*/	*/	***/	(**W)/	(******)
1	2	3	4	5

1 = Type designation
3312 = Type designation for the overhead lamp with connection box "e"
3314 = Type designation with direct cable lead in.

2 = Angabe der Anzahl und Lage der Kabeleinführung:
D = two cable glands at the side of the connection box (only type 3312/*...)
2 = two cable glands in direct lead in (only type 3314/*...)
L = one cable gland at the left side
R = one cable gland at the right side

3 = Specification of the mounted in lamp holder e.g.:
E27 = Lamp holder with Edison-thread 27mm
B22 = Lamp holder with bayonet 22mm
etc.

4 = Specification of the lamp power of the mounted in Lamp
(only if delivered with lamp),for example:
60W = Lamp with 60 W power
100W = Lamp with 100 W power
200W = Lamp with 200 W power
etc.

5 = Specification of size and sort of cable gland (only if delivered with cable glands), f.e.
2x24-Z14 = two cable glands with rated size M24 with earth link 14 mm
1x20-W10/1xVSM20 = one cable gland rated size M20 without earth links
For cable diameter 10 mm and one blind plug M20
etc.

15.3 Technical Data

Rated voltage	max.	250	V
Rated frequency		50/60	Hz
Rated current	max.	4	A
Rated cross-section of the bushings	max.	2,5	mm² (single wire)
No. and wire cross-section for the bushing		2 x 2,5	mm² (single wire)
		1 x 2,5	mm² (fine wire)

Degree of protection acc. IEC 60529 IP66/67

Ambient temperature range Ta -40 °C bis +45° C
bzw. -40 °C bis +55° C
Dependent of the used lamp

For use in explosive gas atmosphere

Position of use:	hanging		any	
Max. ambient temperature:	+45°C	+55°C	+45°C	+55°C
Incandescent lamp 60W	T5	T4	T4	T4
Incandescent lamp 100W	T4	T4	T4	T4
Incandescent lamp 200W	T4	T3	T3	T3
Blended lamp HWL 160W [a)]	T3	--[a)]	T3	--[a)]
Compact fluorescent lamp E27 to 23W	T6	T6	T6	T5
LED-Lamp E27 to 18W	T6	T6	T6	T5

For use in explosive dust atmosphere

Position of use:	hanging		any	
Max. ambient temperature:	+45°C	+55°C	+45°C	+55°C
Incandescent lamp 60W	T100°C	T135°C	T135°C	T135°C
Incandescent lamp 100W	T135°C	T135°C	T135°C	T135°C
Incandescent lamp 200W	T135°C	T200°C	T200°C	T200°C
Blended lamp HWL 160W [a)]	T200°C	--	T200°C	--
Compact fluorescent lamp E27 to 23W	T85°C	T85°C	T85°C	T100°C
LED-Lamp E27 to 18W	T85°C	T85°C	T85°C	T100°C

[a)] The mounting of this luminary is only in hanging or standing position possible because the blended lamp only operates in those positions. Additionally the use is limited to a max. ambient temperature of +45 °C.

(16) **Test-Report No.** 557/Ex 7567.00 / 15

Parts of the device, which already fullfill the requirements for the category, were not approved and assessed by TÜV Rheinland Industrie Service .

The applicability and assembly of mechanical and electrical parts and components were assessed and approved by TÜV Rheinland Industrie Service with respect to the requirements of explosion protection.

(17) **Special Conditions for safe use**

The temperature class depends of the use lamp. Details see clause Technical Data's.

The natures and sizes of the threads of the cable entry is named in the manufacturer's instructions and is named in the type designation and on the marking plate.

Only separately certified cable glands which comply with the type of protection should be used.

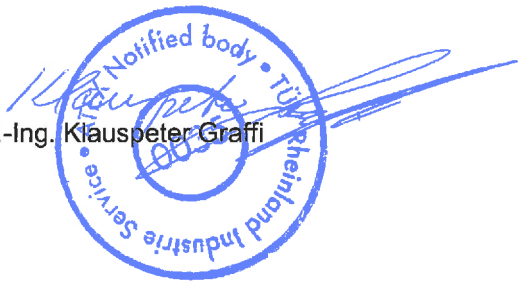
A connecting cable with a temperature resistance of at least 110 °C should be used.

The dust exclusion tests were carried out with cable glands and blind plugs tightened at the enclosure with the affiliated gasket or o-ring. Therefor for type of protection dust exclusion only separately certified cable glands with gaskets should be used.

(18) **Basic Safety and Health Requirements**

Covered by afore mentioned standard

TÜV Rheinland ExNB für explosion protected equipment — Cologne, 2015-11-10



Dipl.-Ing. Klauspeter Graffi