



1 **TYPE EXAMINATION CERTIFICATE**

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 94/9/EC

3 Certificate Number: **Sira 07ATEX4329X** Issue: **2**

4 Equipment: **Type 8163 / 2-\*\*\*\*-T3CDS-\*\* and  
8163/2-\*\*\*\*-T3CDS/PB-\*\* Cable Glands**

5 Applicant: **R. STAHL Schaltgeräte GmbH**

6 Address: Am Bahnhof 30  
74638 Waldenburg (Württ)  
Germany

7 This equipment and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

8 Sira Certification Service certifies that this equipment has been found to comply with the Essential Health and Safety Requirements that relate to the design of Category 3 equipment, which is intended for use in potentially explosive atmospheres. These Essential Health and Safety Requirements are given in Annex II to European Union Directive 94/9/EC of 23 March 1994.

The examination and test results are recorded in the confidential reports listed in Section 14.2.


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 60079-0:2006  
EN 60079-15:2005

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 TYPE EXAMINATION CERTIFICATE relates only to the design of the specified equipment, and not to specific items of equipment subsequently manufactured.

12 The marking of the equipment shall include the following:

 II 3 G  
Ex nR II

Project Number 51A16474  
C. Index 07

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D R Stubbings BA MIET  
Certification Manager



## SCHEDULE

### TYPE-EXAMINATION CERTIFICATE

Sira 07ATEX4329X  
Issue 2

#### 13 DESCRIPTION OF EQUIPMENT

**Type 8163 / 2-\*\*\*\*-T3CDS-\*\*** – a range of displacement type cable glands each comprising a hollow threaded entry component containing a compensating (CDS) seal with associated ferrule, a skid washer with front seal, a clamping sleeve and reversible armour cone. The assembly is actuated by a threaded main gland body. A rear seal and threaded nut are fitted to the other end of the body. The glands are intended for use with appropriately sized SWA, strip armoured, tape armoured or braided cables. The design is such that a constant pressure is maintained on the displacement seal by the use of the compensation ferrule.

**8163/2-\*\*\*\*-T3CDS/PB-\*\*** - Identical to the **Type 8163 / 2-\*\*\*\*-T3CDS-\*\*** Type but incorporate a continuity washer and are suitable for use with lead sheathed cables.

#### Design Options

- Entry Thread options:
  - Metric to BS 3643:1981
  - ET to BS 31: 1940
  - PG to DIN 40430:1971
  - BSPP to BS 2779:1973
  - BSPT to BS 21:1985
  - ISO to ISO 7/1:1982
  - NPT to USAS B2.1-1968
  - NPT to ANSI/ASME B1.20.1-1983
  - NPSM to ANSI/ASME B1.20.1-1983
- Material options for metallic parts: Brass (standard), mild steel, stainless steel or aluminium with a magnesium content less than 6% by weight
- The option to have an alternative entry component profile that incorporates an earth lug.
- Reversible, double sided and with an identically dimensioned plain taper each side for SWA type cables, the gland type designation becoming T3CDSW and T3CDSW/PB.
- Reversible, double sided with an identically dimensioned grooved taper each side for strip armoured or braided type cables; the gland type designation becoming T3CDSX and T3CDSX/PB.



**SCHEDULE**

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Issue 2**

Cable Glands Type 8163 / 2 - . . . . . - . . . . . - . . . . .

Series \_\_\_\_\_

2. Generation \_\_\_\_\_

Gland size

- 20
- 20s
- 20s/16
- 25
- 25s
- 32
- 40
- 50
- 50s
- 63
- 63s
- 75
- 75s
- 90
- 100
- 115
- 130

Design  
T3CDS  
T3CDS/PB

Further information without reference to Explosion protection which is completed if required

**Variation 1**

This variation introduced the following changes:

- i. Revised outer sealing arrangement.

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**SCHEDULE**

**TYPE-EXAMINATION CERTIFICATE**

**Sira 07ATEX4329X  
Issue 2**

**14 DESCRIPTIVE DOCUMENTS**

**14.1 Drawings**

Refer to Certificate Annexe.

**14.2 Associated Sira Reports and Certificate History**

<b>Issue</b>	<b>Date</b>	<b>Report number</b>	<b>Comment</b>
0	23 August 2007	R51A16474A	Original issue as Sira 07ATEX1201X
1	08 October 2007	R51A16474A	The introduction of Variation 1
2	19 December 2007	-	Issue of this certificate in this format covering Category 3 approval only. Issues 0 and 1 referenced above are only intended to reflect the history of the previous certification, Sira 07ATEX1201X and have not been issued as actual documents.

**15 SPECIAL CONDITIONS FOR SAFE USE** (denoted by X after the certificate number)

- 15.1 The glands shall only be used on enclosures where the temperature, at the point of mounting, is in the range  $-60^{\circ}\text{C}$  to  $+130^{\circ}\text{C}$ .
- 15.2 When used with braided cable, the glands shall be used for fixed installations only. Cables must be effectively clamped to prevent pulling or twisting.

**16 ESSENTIAL HEALTH AND SAFETY REQUIREMENTS OF ANNEX II** (EHSRs)

The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed in the reports listed in Section 14.2.

**17 CONDITIONS OF CERTIFICATION**

- 17.1 The use of this certificate is subject to the Regulations Applicable to Holders of Sira Certificates.
- 17.2 Holders of Type-examination certificates are required to comply with the production control requirements defined in Article 8 of directive 94/9/EC.

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# Certificate Annexe

**Certificate Number:** Sira 07ATEX4329X  
**Equipment:** Type 8163 / 2-\*\*\*\*-T3CDS-\*\* and  
8163/2-\*\*\*\*-T3CDS/PB-\*\* Cable Glands  
**Applicant:** R STAHL Schaltgeräte GmbH

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## Issue 1

Number	Sheet	Rev.	Date	Description
8163 0 000 008 0	1 of 1	-	24 Jul 07	Cable gland 8163/2-.....-T3CDS-.....

## Issue 2

No drawings included

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**EG-Konformitätserklärung**  
*EC-Declaration of Conformity*  
*CE-Déclaration de Conformité*



**Wir** (we; nous)

R. STAHL Schaltgeräte GmbH, Am Bahnhof 30, 74638 Waldenburg, Germany 8163/2-\*\*\*\*-T3CDS-\*\*

**erklären in alleiniger Verantwortung, dass das Produkt**  
*hereby declare in our sole responsibility, that the product*  
*déclarons de notre seule responsabilité, que le produit*

**Kabel- und Leitungseinführung**  
*Cable glands*  
*Entrée de cable*

**mit der Baumusterprüfbescheinigung:**  
*(under; Type Examination Certificate:*  
*avec) Attestation d'examen de type:*

**Sira 07 ATEX 4329 X**

**auf das sich diese Erklärung bezieht, mit den folgenden Normen oder normativen Dokumenten übereinstimmt**

*which is the subject of this declaration, is in conformity with the following standards or normative documents*

*auquel cette déclaration se rapporte, est conforme aux normes ou aux documents normatifs suivants*

**Bestimmungen der Richtlinie**  
*terms of the directive*  
*prescription de la directive*

**Nummer sowie Ausgabedatum der Norm**  
*Number and date of issue of the standard*  
*Numéro ainsi que date d'émission des normes*

**94/9/EG: ATEX-Richtlinie**  
*94/9/EC: ATEX Directive*  
*94/9/CE: Directive ATEX*

EN 60079-0:2004  
 EN 60079-15:2005

**2004/108/EG: EMV-Richtlinie**  
*2004/108/EC: EMC Directive*  
*2004/108/CE: Directive CEM*

EN 50262  
 BS 6121

**Qualitätssicherung Produktion:**  
*Production Quality Assessment:*  
*Assurance Qualité Production:*

PTB 96 ATEX Q006-4

**Kenn-Nr. der benannten Stelle / Notified Body number / N° de l'organisme de certification:** 0102

Waldenburg, 04.03.2008

i.V.

i.V.

**Ort und Datum**  
*Place and date*  
*lieu et date*

**B. Limbacher**  
**Leiter Entwicklung**  
*Head of Development*  
*Directeur Développement*

**Dr. S. Jung**  
**Leiter Qualitätsmanagement**  
*Director Quality Management Dept.*  
*Directeur Dept. Assurance de Qualité*