IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: IECEx PTB 10.0047X issue No.:0

Certificate history:

Status: **Current**

Date of Issue: **2010-08-13** Page 1 of 3

Applicant: **R. STAHL Schaltgeräte GmbH**
Am Bahnhof 30
74638 Waldenburg
Germany

Electrical Apparatus: **Repair socket with disconnector, type 8579/..-...-.**
Optional accessory:

Type of Protection: **Flameproof enclosure "d", Increased Safety "e", Intrinsic Safety "i", Protection by enclosure "tD"**

Marking: **Ex d e IIC T6, T5, T4**
Ex tD A21 IP66 T 60°C ... T 105°C

Approved for issue on behalf of the IECEx Certification Body: Uwe Völkel

Position: Section "Flameproof Enclosures"

Signature:
(for printed version)

Date:

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the Official IECEx Website.

Certificate issued by:

Physikalisch-Technische Bundesanstalt (PTB)
Bundesallee 100
38116 Braunschweig
Germany

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Manufacturer: **R. STAHL Schaltgeräte GmbH**
Am Bahnhof 30
74638 Waldenburg
Germany

Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:
The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2004 Edition: 4.0	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
IEC 60079-1 : 2007-04 Edition: 6	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-7 : 2006-07 Edition: 4	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
IEC 61241-0 : 2004 Edition: 1	Electrical apparatus for use in the presence of combustible dust - Part 0: General requirements
IEC 61241-1 : 2004 Edition: 1	Electrical apparatus for use in the presence of combustible dust - Part 1: Protection by enclosures "tD"

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:
A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

DE/PTB/ExTR10.0051/00

Quality Assessment Report:
DE/BVS/QAR10.0002/00

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Schedule

EQUIPMENT:
Equipment and systems covered by this certificate are as follows:

See attachment.

CONDITIONS OF CERTIFICATION: YES as shown below:

The repair socket with disconnector, type 8579/..-...-. shall become operative or switched on, if there is no explosive atmosphere.
The repair socket with disconnector, type 8579/..-...-. shall be padlocked to prevent unauthorized use.
The user/owner shall be advised of the "Special conditions" in an appropriate form.

Annexe: Issue_0_attachment.pdf

Description
The repair socket with disconnector of the type 8579/..-…-. is an explosion-protected electrical device. It is used for service of non-explosion-protected mobile or fixed-installed electrical devices within hazardous locations with non explosion atmosphere.
The repair-and-socket device is padlocked to prevent unauthorized use.

Description of supplements and modifications
The repair socket with disconnector, type 8579/..-…-. will be extended to the design variation type 8579/61 with the switch 8544.
The repair socket with disconnector may also be used in areas in which explosive atmospheres produced by dust/air mixtures may occasionally occur (zone 21 and 22).
The rated isolation voltage was decreased from 420 V to 400 V.
The maximum rated cross section was increased from 35 mm^2 to 50 mm^2.
The standards were adapted.

Nomenclature

Repair socket with disconnector	Type 8579/ab-cde-f
a	type: 5 = standard with 8543; type: 6 = standard with 8544
b	type of construction: 1 = switch socket; 2 = plug
c	number of poles: 4 = 3P+PE; 5 = 3P+N+PE
d, e, f	numerals or letters without influence to explosion-protection

Rated data:

	Main contact	Auxiliary contact
Rated voltage	Up to 415 V	Up to 415 V
Rated current	Up to 63 A	Up to 6 A
Utilization category	AC-3	

Rated cross-section:

	Main contact	Auxiliary contact
Switched socket with 8543 insert	35 mm^2	2.5 mm^2
Switched socket with 8544 insert	16 mm^2 - 50 mm^2	1.5mm^2 - 2.5 mm^2
Plug	16 mm^2	

Temperature classification:
Plug-and-socket device with 8543 switch insert:

Ambient Temperature	Temperature class	Max. surface temperature
Up to 50°C	T5	T 90°C
Up to 55°C	T4	T 105°C

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Postfach 33 45, 38023 Braunschweig, Germany
Telephone +49 531 592-0, Telefax +49 531 592-3605

Plug-and-socket device with 8544 switch insert:

Ambient Temperature	Max. operating current		Temperature class	Max. surface temperature
	Main contact	Auxiliary contact		
Up to 40°C	63 A	6 A	T6	T 60°C
Up o 50°C	50 A	4 A	T6	T 70°C
Up to 55°C	63 A	6 A	T5	T 75°C

Notes for manufacture and operation

Components attached or installed (e.g. terminal compartments, bushings, cable glands, connectors) must be of a technical standard that complies with the specifications on the cover sheet. They must be suited for the operating conditions and be covered by a separate examination certificate. The special conditions specified for the components must be complied with, and the components have to be included in the type test, if necessary. This equally applies to the components mentioned in the technical description.
For the installation of intrinsically safe devices are those admitted that correspond to the IEC 60079-11:2006 standard.

A warning with the inscription “WARNING - DO NOT OPEN WHEN ENERGIZED” or similar has to be fitted on the enclosure.

Manufacturer’s Documents
See ATEX certificate PTB 01 ATEX 1137X

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