



Konformitätsaussage

(1)

(2) Geräte und Schutzsysteme zur bestimmungsgemässen Verwendung in explosionsgefährdeten Bereichen - **Richtlinie 94/9/EG**

(3) Prüfbescheinigungsnummer

SEV 07 ATEX 0110 X

(4) Gerät: Installationssteckverbinder Typ RST 20i2** - i5**

(5) Hersteller: Wieland Electric GmbH

(6) Anschrift: Brennerstrasse 10 - 14, DE-96052 Bamberg

(7) Die Bauart dieses Gerätes sowie die verschiedenen zulässigen Ausführungen sind in der Anlage zu dieser Prüfbescheinigung festgelegt.

(8) Die Electrosuisse SEV bescheinigt die Erfüllung der grundlegenden Sicherheits- und Gesundheitsanforderungen für die Konzeption und den Bau von Geräten und Schutzsystemen zur bestimmungsgemässen Verwendung in explosionsgefährdeten Bereichen gemäss Anhang II der Richtlinien.

Die Ergebnisse der Prüfung sind in dem vertraulichen Prüfbericht 07-IK-0073.01 inkl. Erweiterung 1, 2 und 3 festgelegt.

(9) Die grundlegenden Sicherheits- und Gesundheitsanforderungen werden erfüllt durch Übereinstimmung mit

EN 1127-1:2007**EN 60079-0:2006****EN 60079-15:2005****EN 61241-0:2006****EN 61241-1:2004**

(10) Falls das Zeichen «X» hinter der Bescheinigungsnummer steht, wird auf besondere Bedingungen für die sichere Anwendung des Gerätes in der Anlage zu dieser Bescheinigung hingewiesen.

(11) Diese Konformitätsaussage bezieht sich nur auf Konzeption und Bau des festgelegten Gerätes gemäss Richtlinie 94/9/EG. Weitere Anforderungen dieser Richtlinie gelten für die Herstellung und das Inverkehrbringen des Gerätes.

(12) Die Kennzeichnung des Gerätes muss die folgenden Angaben enthalten:

**siehe Anlage Seite 6 (19) Kennzeichnung****Electrosuisse SEV**

Konformitätsbewertungsstelle ATEX

Fehraltorf, 21.09.2010

Ersetzt Bescheinigung vom
09.08.2010

Erweiterung 3; Änderung(en)

Martin Plüss
Zertifizierung Produkte

Seite 1/6

(13)

Anlage

(14)

Konformitätsaussage SEV 07 ATEX 0110 X

(15) Beschreibung des Gerätes

Die Installationssteckverbinder RST 20i2** - i5** dienen der schnelleren und einfacheren Anschluss- bzw. Verbindungstechnik von Geräten in der Zündschutzart "n". Sie ermöglicht eine durchgängig steckbare Lösung vom Verteiler bis hin zu jeder Bedarfsstelle.

Bemessungsdaten

Bemessungsspannung	bis AC	50V bzw. 250V	bei 2pol.
	bis AC	50, 250V bzw. 250/400V	bei 3pol.
	bis AC	250/400V	bei 4pol.
	bis AC	50V, 50/250V & 250/400V	bei 5pol.
Arbeitsspannung *	bis AC	55V bzw. 275V	bei 2pol.
	bis AC	55, 275V bzw. 275/440V	bei 3pol.
	bis AC	275/440V	bei 4pol.
	bis AC	55V, 55/275V & 275/440V	bei 5pol.

* Höchster Effektivwert der Wechselspannung oder der Gleichspannung an einer Isolierung, der dann Auftreten kann, wenn das Betriebsmittel mit der Bemessungsspannung gespeist wird.

Bemessungsstrom für Geräte- und Erstanlüsse

2- und 3pol.	Schraub- & Federkraft	1,5mm ² - max. 16,0A	2,5mm ² - max. 20,0A
4- und 5pol	Schraubanschluss	1,5mm ² - max. 16,0A	2,5mm ² - max. 20,0A

Bemessungsstrom; querschnittsabhängig für STVB mit konfektionierten Leitungen:

H05VV-F:	2- und 3pol.	crimp	1,5mm ² - max. 16,0A	2,5mm ² - max. 20,0A
H05VV-F:	4- und 5pol	schraub	1,5mm ² - max. 16,0A	2,5mm ² - max. 20,0A
H07RN-F:	2- und 3pol.	crimp	1,5mm ² - max. 14,5A	2,5mm ² - max. 17,5A
H07RN-F:	4- und 5pol	schraub	1,5mm ² - max. 12,5A	2,5mm ² - max. 17,0A

Anlage zur Konformitätsaussage SEV 07 ATEX 0110 X

Anschliessbarer Querschnitt:

- Schraubtechnik	max. 4,0 mm ² / min. 1,5 mm ²	(2- und 3pol.)
- Schraubtechnik	max. 2,5 mm ² / min. 1,5 mm ²	(4- und 5pol.)
- Federkrafttechnik	max. 2,5 mm ² / min. 1,5 mm ²	(2- und 3pol.)

Art der anschliessbaren Leiterarten;

- mit Schraubklemmstelle	ein-/ feindrätig	1,5 mm ² bis 2,5 mm ²
- mit Schraubklemmstelle	feindrätig	4,0 mm ²
- mit Schraubklemmstelle	flexibel mit Aderendhülse	1,5 mm ² bis 2,5 mm ²
- mit Schraubenloser Klemmstelle	eindrätig	1,5 mm ² bis 2,5 mm ²
- mit Schraubenloser Klemmstelle	flexibel mit Ultraschall verschweissten Leiterenden	1,5 mm ² bis 2,5 mm ²
- mit Schraubenloser Klemmstelle	flexibel mit Aderendhülse	1,5 mm ²
- mit Crimpanschluss	flexibel mit Ultraschall verschweissten Leiterenden	1,5 mm ² bis 2,5 mm ²

Anzahl der Kabel (Ader) pro Klemmstelle: 1 bzw. 2

Erweiterter Einsatzbereich für nachfolgende Geräte- und Erstanschlüsse für eine Umgebungstemperatur von +70°:

Bemessungsspannung	bis AC 250V	bei 3pol. STVB
	bis AC 250/400V	bei 5pol. STVB
Arbeitsspannung *	bis AC 275V	bei 3pol. STVB
	bis AC 275/440V	bei 5pol. STVB

* Höchster Effektivwert der Wechselspannung oder der Gleichspannung an einer Isolierung, der dann Auftreten kann, wenn das Betriebsmittel mit der Bemessungsspannung gespeist wird.

Bemessungsstrom für Geräte- und Erstanschlüsse

3pol. Schraubanschluss	2,5mm ² - max. 9,4A
5pol. Schraubanschluss	2,5mm ² - max. 9,7A

Anschliessbarer Querschnitt:

- Schraubtechnik	max. 4,0 mm ²	(3pol.)
- Schraubtechnik	max. 2,5 mm ²	(5pol.)

Anlage zur Konformitätsaussage SEV 07 ATEX 0110 X

Art der anschliessbaren Leiterarten;

- mit Schraubklemmstelle	ein-/ feindrätig	2,5 mm ²
- mit Schraubklemmstelle	feindrätig	4,0 mm ²
- mit Schraubklemmstelle	flexibel mit Aderendhülse	2,5 mm ²

Bemessungsstrom für Verteilerboxen

2- und 5pol.	mit H05VV-F & H07RN-F	1,5mm ² - max. 16,0A	2,5mm ² - max. 20,0A
--------------	-----------------------	---------------------------------	---------------------------------

Bemessungsstrom für Verteiler

2- und 3pol.	mit H05VV-F & H07RN-F	1,5mm ² - max. 16,0A	2,5mm ² - max. 17,5A
--------------	-----------------------	---------------------------------	---------------------------------

Bemessungsstrom für Steckverbinder mit Doppelanschluss

2- und 3pol.	Schraub- & Federkraft	1,5mm ² - max. 16,0A	2,5mm ² - max. 20,0A
4- und 5pol.	Schraubanschluss	1,5mm ² - max. 16,0A	

Anschliessbarer Querschnitt;

- Schraubtechnik	max. 4,0 mm ² / min. 1,5 mm ²	(2- und 3pol.)
- Schraubtechnik	max. 2,5 mm ² / min. 1,5 mm ²	(4- und 5pol.)
- Federkrafttechnik	max. 2,5 mm ² / min. 1,5 mm ²	(2- und 3pol.)

Art der anschliessbaren Leiterarten;

- mit Schraubklemmstelle	ein-/ feindrätig	1,5 mm ² bis 2,5 mm ²
- mit Schraubklemmstelle	feindrätig	4,0 mm ²
- mit Schraubklemmstelle	flexibel mit Aderendhülse	1,5 mm ² bis 2,5 mm ²
- mit Schraubenloser Klemmstelle	eindrätig	1,5 mm ² bis 2,5 mm ²
- mit Schraubenloser Klemmstelle	flexibel mit Ultraschall verschweissten Leiterenden	1,5 mm ² bis 2,5 mm ²
- mit Schraubenloser Klemmstelle	flexibel mit Aderendhülse	1,5 mm ²

Anzahl der Kabel (Ader) pro Klemmstelle: 1 bzw. 2

Anlage zur Konformitätsaussage SEV 07 ATEX 0110 X

Hinweise

1. Am Installationssteckverbinder RST 20i2** - i5** muss nachfolgende Warnkennzeichnung angebracht werden:
WARNUNG - NICHT UNTER SPANNUNG TRENNEN
2. Die Installationssteckverbinder RST 20i2** - i5** sind nach RL 94/9/EG (ATEX 95) Anhang I Geräte der Gerätegruppe II Kategorie 3G die nach RL 99/92/EG (ATEX 137) in der Zone 2 sowie den Gasgruppen IIA, IIB und IIC, die durch brennbare Stoffe im Bereich der Temperaturklassen T1 bis T6 explosionsgefährdet sind, eingesetzt werden dürfen.
Bei der Verwendung/Installation sind die Anforderungen nach EN 60079-14 einzuhalten.
3. Die Installationssteckverbinder RST 20i2** - i5** sind nach RL 94/9/EG (ATEX 95) Anhang I auch Geräte der Gerätegruppe II Kategorie 3D die nach RL 99/92/EG (ATEX 137) in der Zone 22 von brennbaren Stäuben eingesetzt werden dürfen.
Bei der Verwendung/Installation sind die Anforderungen nach EN 61241-14 einzuhalten.
4. Der zulässige Umgebungstemperaturbereich beträgt -20°C bis +40°C.
5. Erweiterter Einsatzbereich für nachfolgende Geräte- und Erstanschlüsse in Schraubtechnik der Typen RST 20i3** & RST 20i5**. Sowohl die 3-poligen als auch die 5-poligen Steckverbindertypen sind, bei einer Umgebungstemperatur von +70°C und unter Verwendung eines Leiterquerschnittes von $\geq 2,5\text{mm}^2$ nur mit einem Belastungsstrom von max. 9,4A für 3pol. bzw. 9,7A für 5pol. verwendbar.

(16) Prüfbericht

07-IK-0073.01 inkl. Erweiterung 1, 2 und 3

Anlage zur Konformitätsaussage SEV 07 ATEX 0110 X

(17) Besondere Bedingungen

1. Die Installationssteckverbinder RST 20i2** - i5** dürfen nur dort eingebaut werden, wo diese vor Einwirkung mechanischer Gefahr geschützt sind.
2. Nicht benötigte Stecker- und Buchsenteile müssen mit dem jeweils zugehörigen Verschlussstück verschlossen werden.
3. Die am Installationssteckverbinder RST 20i2** - i5** angeschlossenen Kabel und Leitungen sind vor Einwirkung mechanischen Gefahr zu schützen. Zusätzlich muss der Installateur/Betreiber eine entsprechende Zugentlastung der angeschlossenen Kabel und Leitungen gewährleisten.
4. Der zulässige Umgebungstemperaturbereich, für die Installationssteckverbinder RST 20i3** & RST 20i5** als Geräte- und Erstanschluss in Schraubanschlusstechnik unter Verwendung eines Leiterquerschnittes von $\geq 2,5\text{mm}^2$ mit einem Belastungsstrom von max. 9,4A für 3pol. bzw. 9,7A für 5pol beträgt, -20°C bis $+70^\circ\text{C}$.
5. Die Gefahr einer elektrostatischen Aufladung der Installationssteckverbinder; RST 20i2** - i5** (Verteilerboxen & Steckverbinder mit Doppelanschluss) muss durch folgende Massnahme verhindert werden:
Wartungs- bzw. Reinigungsarbeiten dürfen nur durchgeführt werden, wenn sichergestellt ist, dass keine explosionsfähige Atmosphäre vorhanden ist.

(18) Grundlegende Sicherheits- und Gesundheitsanforderungen

Durch die angewandten Normen erfüllt.

(19) Kennzeichnung

- | | | | |
|---|-------|----------------------|--|
|  | II 3G | Ex nA II 80°C (T6) | |
| | II 3D | Ex tD A22 IP65 T85°C | (Für Erst- & Geräteanschlüsse) bzw. |
|  | II 3G | Ex nA II T6 | |
| | II 3D | Ex tD A22 IP65 T70°C | (Mit konfekt. Leitung; H05VV-F..) bzw. |
|  | II 3G | Ex nA II T6 | |
| | II 3D | Ex tD A22 IP65 T60°C | (Mit konfekt. Leitung; H07RN-F..) |

Electrosuisse SEV

Konformitätsbewertungsstelle ATEX

Martin Plüss
Zertifizierung Produkte



Fehraltorf, 21.09.2010

Ersetzt Bescheinigung vom
09.08.2010
Erweiterung 3; Änderung(en)

Seite 6/6



Conformity Statement

(1)

(2) Equipment and protective systems intended for use in potentially explosive atmospheres - **Directive 94/9/EC**

(3) Test Certificate Number

SEV 07 ATEX 0110 X

(4) Equipment: Installation connector type RST 20i2**-i5**

(5) Manufacturer: Wieland Electric GmbH

(6) Address: Brennerstrasse 10-14, DE-96052 Bamberg

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

(8) Electrosuisse SEV 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 results of the examination are recorded in confidential report No. 07-IK-0073.01 incl. extension 1, 2 and 3.

(9) Compliance with the essential health and safety requirements has been assured by compliance with:

EN 1127-1:2007**EN 60079-0:2006****EN 60079-15:2005****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 Conformity Statement relates only to the design and construction of the specified equipment in accordance with Directive 94/9/EC. Further requirements of this directive apply to the manufacture and the placing on the market of this equipment.

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

**see appendix page 6 (19) marking**

Electrosuisse SEV
Certification Body ATEX

Fehraltorf, 2010-09-21

Replaces certificate dated
2010-08-09

Extension 3; modification(s)

Martin Plüss
Product Certification

(13)

Appendix

(14)

Conformity Statement SEV 07 ATEX 0110 X

(15) Description of the equipment

The RST 20i2** - i5** installation connectors serve for quicker and easier connection and as a connection system for equipment with the type of protection "n". It provides a continuous plug-in solution from distribution boards to any consumer point.

Ratings

Rated voltage	up to AC	50V and 250V	for two-pin
	up to AC	50, 250 and 250/400V	for three-pin
	up to AC	250/400V	for four-pin
	up to AC	50V, 50/250V & 250/400V	for five-pin
Operating voltage *	up to AC	55V and 275V	for two-pin
	up to AC	55, 275V and 275/440V	for three-pin
	up to AC	275/440V	for four-pin
	up to AC	55V, 55/275V & 275/440V	for five-pin

* maximum rms a.c. voltage or d.c. voltage on an insulated system that can occur when the equipment is supplied with the rated voltage.

Rated current for equipment and initial connections

two and three-pin	Screw & spring force	1.5mm ² - max. 16.0A	2.5mm ² - max. 20.0A
four and five-pin	Screw connection	1.5mm ² - max. 16.0A	2.5mm ² - max. 20.0A

Rated current; depending on cross-section for connectors with cable assemblies:

H05VV-F:	two and three-pin	crimp	1.5mm ² - max. 16.0A	2.5mm ² - max. 20.0A
H05VV-F:	four and five-pin	screw	1.5mm ² - max. 16.0A	2.5mm ² - max. 20.0A
H07RN-F:	two and three-pin	crimp	1.5mm ² - max. 14.5A	2.5mm ² - max. 17.5A
H07RN-F:	four and five-pin	screw	1.5mm ² - max. 12.5A	2.5mm ² - max. 17.0A

Appendix Conformity Statement SEV 07 ATEX 0110 X

Connectable cross-section;

Screw system	max. 4.0 mm ² /min. 1.5 mm ²	(two and three-pin)
Screw system	max. 2.5 mm ² /min. 1.5 mm ²	(four and five-pin)
Spring force system	max. 2.5 mm ² /min. 1.5 mm ²	(two and three-pin)

Connectable conductor types;

- with screw clamping point	Solid/finely stranded	1.5 mm ² to 2.5 mm ²
- with screw clamping point	Finely stranded	4.0 mm ²
- with screw clamping point	Flexible with ferrule	1.5 mm ² to 2.5 mm ²
- with screwless clamping point	Solid	1.5 mm ² to 2.5 mm ²
- with screwless clamping point	Flexible with ultrasonic welded conductor ends	1.5 mm ² to 2.5 mm ²
- with screwless clamping point	Flexible with ferrule	1.5 mm ²
- with crimp connection	Flexible with ultrasonic welded conductor ends	1.5 mm ² to 2.5 mm ²

Number of cables (conductors) per clamping point: 1 and 2

Extended application for the following unit and initial connections for an ambient temperature of +70°C:

Rated voltage	up to AC 250V	for three-pin connector
	up to AC 250/400V	for five-pin connector
Operating voltage *	up to AC 275V	for three-pin connector
	up to AC 275/440V	for five-pin connector

* maximum rms a.c. voltage or d.c. voltage on an insulated system that can occur when the equipment is supplied with the rated voltage.

Rated current for equipment and initial connections

three-pin	Screw connection	2.5mm ² - max. 9.4A
five-pin	Screw connection	2.5mm ² - max. 9.7A

Connectable cross-section;

Screw system	max. 4.0 mm ²	(three-pin)
Screw system	max. 2.5 mm ²	(five-pin)

Appendix Conformity Statement SEV 07 ATEX 0110 X

Connectable conductor types:

- with screw clamping point	Solid/finely stranded	2.5 mm ²
- with screw clamping point	Finely stranded	4.0 mm ²
- with screw clamping point	Flexible with ferrule	2.5 mm ²

Rated current for distribution box

two and five-pin	with H05VV-F & H07RN-F	1,5mm ² - max. 16,0A	2,5mm ² - max. 20,0A
------------------	------------------------	---------------------------------	---------------------------------

Rated current for distribution unit

two and three-pin	with H05VV-F & H07RN-F	1,5mm ² - max. 16,0A	2,5mm ² - max. 17,5A
-------------------	------------------------	---------------------------------	---------------------------------

Rated current for connector with twin connection

two and three-pin	Screw & spring force	1,5mm ² - max. 16,0A	2,5mm ² - max. 20,0A
four and five-pin	Screw connection	1,5mm ² - max. 16,0A	

Connectable cross-section:

- Screw system	max. 4,0 mm ² / min. 1,5 mm ²	(two and three-pin)
- Screw system	max. 2,5 mm ² / min. 1,5 mm ²	(four and five-pin)
- Spring force system	max. 2,5 mm ² / min. 1,5 mm ²	(two and three-pin)

Connectable conductor type:

- with screw clamping point	Solid/finely stranded	1,5 mm ² to 2,5 mm ²
- with screw clamping point	Finely stranded	4,0 mm ²
- with screw clamping point	Flexible with ferrule	1,5 mm ² to 2,5 mm ²
- with screwless clamping point	Solid	1,5 mm ² to 2,5 mm ²
- with screwless clamping point	Flexible with ultrasonic welded conductor ends	1,5 mm ² to 2,5 mm ²
- with screwless clamping point	Flexible with ferrule	1,5 mm ²

Number of cables (conductors) per clamping point: 1 and 2

Appendix Conformity Statement SEV 07 ATEX 0110 X

Notes

1. The following warning indication must be provided on the RST 20i2** - i5** installation connectors:

WARNING - DO NOT SEPARATE WHEN ENERGIZED

2. According to RL 94/9/EC (ATEX 95) Appendix I, the RST 20i2** - i5** installation connectors are devices of equipment group II, category 3G which, according to RL 99/92/EC (ATEX 137) can be used in zone 2 as well as gas groups IIA and IIB and IIC, which are potentially explosive due to combustible substances in the temperature classes T1 to T6.

For use/installation, the requirements of EN 60079-14 must be observed.

3. According to RL 94/9/EC (ATEX 95) Appendix I, the RST 20i2** - i5** installation connectors are devices of equipment group II, category 3D which, according to RL 99/92/EC (ATEX 137) can be used in zone 22 in the presence of combustible dusts.

For use/installation, the requirements of EN 61241-14 must be observed.

4. The permissible ambient temperature range is -20°C to +40°C.

5. Extended application for the following unit and initial screw-type connections for types RST 20i3** and RST 20i5**. At an ambient temperature of +70°C and using a conductor cross-section of $\geq 2.5\text{mm}^2$, both the three-pin and five-pin connectors are only usable with a maximum current load of 9.4A for three-pin and 9.7A for five-pin.

(16) Test report

07-IK-0073.01 incl. extension 1, 2 and 3

Appendix Conformity Statement SEV 07 ATEX 0110 X

(17) Particular conditions

1. The RST 20i2** - i5** installation connectors may only be installed where they are protected from the effects of mechanical hazards.
2. Unrequired plug and socket parts must be sealed with the associated cover.
3. Wires and cables connected to the RST 20i2** - i5** installation connectors must be protected from the effects of mechanical hazards. The installer/operator must also provide appropriate strain relief for the connected wires and cables.
4. The permissible ambient temperature for the installation connectors RST 20i3** and RST 20i5** for unit and initial screw-type connection using a conductor cross-section of $\geq 2.5\text{mm}^2$ with a maximum current load of 9.4A for three-pin and 9.7A for five-pin is -20°C to $+70^\circ\text{C}$.
5. The risk of an electrostatic charge of the installation connectors; RST 20i2 ** - i5 ** (distribution boxes & connectors with twin connection) must be prevented by the following measure:
Maintenance and/or cleaning may be carried out only, if it is guaranteed that no combustible atmosphere is present.

(18) General health and safety requirements

Complied with by the standards referred to.

(19) Marking

	II 3G	Ex nA II 80°C (T6)	
	II 3D	Ex tD A22 IP65 T85°C	(for initial and equipment connections) or
	II 3G	Ex nA II T6	
	II 3D	Ex tD A22 IP65 T70°C	(with cable assembly; H05VV-F..) or
	II 3G	Ex nA II T6	
	II 3D	Ex tD A22 IP65 T60°C	(with cable assembly; H07RN-F..)

Electrosuisse SEV
Certification Body ATEX

Fehraltorf, 2010-09-21

Replaces certificate dated
2010-08-09
Extension 3; modification(s)

Martin Plüss
Product Certification



**wieland**Elektrische
Verbindungen

Type designation code
connector system RST20I2 u. 3.. – 250V,20A
rewirable connectors with screw- and screwless terminals

<u>RST20I</u>	<u>3</u>	<u>SB1</u>	<u>Z</u>	<u>R1</u>	<u>V</u>	<u>GL</u>
I	II	III	IV	V	VI	VII

I Basic Type Designation**II Number of Poles: 2 up to 3****III Type of connector and terminal type**

SB1	=	single screw terminal provided with female contact
SDB1	=	single screw terminal with wire protection, provided with female contact
SS1	=	single screw terminal provided with male contact
SDS1	=	single screw terminal with wire protection, provided with male contact
FB2	=	double screwless terminal provided with female contact
FS2	=	double screwless terminal provided with male contact

IV Cord anchorage

Z	=	with cord anchorage
---	---	---------------------

V Cord anchorage variations

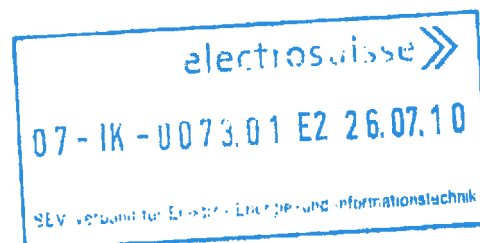
R1	=	round cable, single cord	6,0mm – 10mm
R2	=	round cable, single cord	10mm – 14mm
R3	=	round cable, single cord	13mm – 18mm
RW	=	rectangle cable, single cord	14mm x 6mm
RX	=	round cable, double cord	6,4mm – 10mm
RY	=	round cable, double cord	10mm – 11,2mm

VI Retaining means

V	=	with retaining means
---	---	----------------------

VII Colour: all colours, i. e.

GL	=	grey
SW	=	black
BL	=	blue
GN	=	green (250/400V) – special Coding
BR	=	brown (50V) – special Coding

**wieland**
Wieland Electric GmbH
Brennerstraße 10-14 • Bamberg
☎ D-96045 • 📠 D-96052

J. Stofel 23.02.09

Note: Suffices, which are obvious like colour, retaining means, i.e., are optional and are not marked on the product.

**wieland**Elektrische
Verbindungen

Type designation code
connector system RST20I2 u. 3.. – 250/400V, 20A
Built-in connector
rewirable with screw- and screwless terminals

<u>RST20I</u>	<u>3</u>	<u>SB1</u>	<u>M0</u>	<u>0</u>	<u>V</u>	<u>GL</u>
I	II	III	IV	V	VI	VII

I Basic Type Designation**II Number of Poles: 2 up to 3****III Type of connector and terminal type**

SB1	=	single screw terminal provided with female contact
SDB1	=	single screw terminal with wire protection, provided with female contact
SS1	=	single screw terminal provided with male contact
SDS1	=	single screw terminal with wire protection, provided with male contact
FB2	=	double screwless terminal provided with female contact
FS2	=	double screwless terminal provided with male contact

IV Kind of fixing

M0	=	metric screw thread straight exit
M9	=	metric screw thread angled exit 90°

V Extended kind of fixing

0	=	M20
1	=	M25
2	=	M32 (intended, only)
3	=	M16

VI Retaining means

V	=	with retaining means
---	---	----------------------

VII Colour: all colours, i. e.

GL	=	grey
SW	=	black
GN	=	green (250/400V) – special Coding
BR	=	brown (50V) – special Coding

Note: Suffices, which are obvious like colour, retaining means, i.e., are optional and are not marked on the product.

ATEX_ Ex nA II T6

**wieland**

Wieland Electric GmbH
Brennerstraße 10-14 • Bamberg
☎ D-96045 • 📠 D-96052

10/07/2007



**wieland**Elektrische
Verbindungen

Type designation code
connector system RST20I2 u. 3.. – 250/400V, 20A
nonrewirable connector

<u>RST20I</u>	<u>3</u>	<u>K1</u>	<u>BS</u>	<u>—</u>	<u>25</u>	<u>P</u>	<u>GL</u>
I	II	III	IV	V	VI	VII	VIII

I Basic Type Designation

II Number of Poles: 2 up to 3

III Type of terminal

K1 = crimp terminal

IV Type of connector

BS	=	female contact – male contact
B -	=	female contact – free cable end
- S	=	free cable end – male contact

V Special model

no suffix = standard form

VI Cross section

15	=	1,5 mm ² (16A for H05VV-F; 14,5A for H07RN-F)
25	=	2,5 mm ² (20A for H05VV-F; 17,5A for H07RN-F)

VII Type of cable

no suffix	=	rubber insulation cable H07RN-F
P	=	PVC cable H05VV-F

VIII Colour: all colours, i. e.

GL	=	grey
SW	=	black
GN	=	green (250/400V) – special Coding
BR	=	brown (50V) – special Coding

Note: Suffices, which are obvious like colour, are optional and are not marked on the product.

ATEX_ Ex nA II T6

**wieland**

Wieland Electric GmbH 10/07/2007

Brennerstraße 10-14 • Bamberg

☎ D-96045 • 📠 D-96052



wieland

Elektrische
Verbindungen

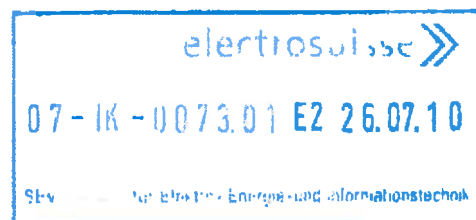
Type designation code
connector system RST20L. – 250V
distribution blocks and end cabs

RST20L 3 V 3P1 — F V GL
I II III IV V VI VII VIII

I **Basic Type Designation**

II **Number of Poles:** 2 up to 3

III **Block or coupler type**
V = distribution blocks



IV **Number of channels**
3P1 = one male input with three female outputs

V **Configuration of distribution block**
no suffix = standard form

VI **Mounting means**
no suffix = standard form
F = screw type mounting
R = snap-in facility

VII **Retaining means**
no suffix = without retaining means
V = with retaining means

VIII **Colour: all colours, i. e.**
GL = grey
SW = black
GN = green (250/400V)
BR = brown (50V)

End cabs 05.564.4453.X and Z5.564.4553.X for male and female outputs:
X = digit 0 to 9, according colour code (see VIII)

Note: Suffices, which are obvious like colour, are optional and are not marked on the product.

wieland
Wieland Electric GmbH
Brennerstraße 10-14 • Bamberg
☎ D-96045 • 📠 D-96052

21.10.09
i.v. J. Stöfel



wieland

Elektrische
Verbindungen

Type designation code
connector system RST20I4 and 5.. – 250/400V, 20A
rewirable connectors with screw terminals

<u>RST20I</u>	<u>5</u>	<u>SB1</u>	<u>Z</u>	<u>R1</u>	<u>V</u>	<u>GL</u>
I	II	III	IV	V	VI	VII

I Basic Type Designation

II Number of Poles 4 up to 5

III Type of connector and terminal type

SB1	=	single screw terminal provided with female contact without wire protection,
SS1	=	single screw terminal provided with male contact without wire protection,

IV Cord anchorage

Z	=	with cord anchorage
---	---	---------------------

V Cord anchorage variations

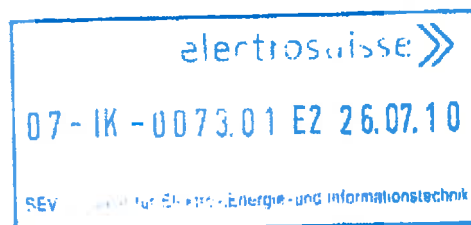
R1	=	round cable, single cord	6,0mm – 10mm
R2	=	round cable, single cord	10mm – 14mm
R3	=	round cable, single cord	13mm – 18mm
RX	=	round cable, double cord	6,4mm – 10mm
RY	=	round cable, double cord	10mm – 11,2mm

VI Retaining means

V	=	with retaining means
---	---	----------------------

VII Colour: all colours, i. e.

GL	=	grey
SW	=	black
BL	=	light blue
TB	=	turquoise blue (50/250V) – special Coding
BR	=	brown (50V) – special Coding



wieland
Wieland Electric GmbH
Brennerstraße 10-14 • Bamberg
☒ D-96045 • ☎ D-96052

J. Stöckl 23.02.09

Note: Suffices, which are obvious like colour, retaining means, i.e., are optional and are not marked on the product.

**wieland**Elektrische
Verbindungen

Type designation code
connector system RST20I4 and 5.. – 250/400V, 20A
Built-in connector
rewirable with screw terminals

<u>RST20I</u>	<u>5</u>	<u>SB1</u>	<u>M0</u>	<u>0</u>	<u>V</u>	<u>GL</u>
I	II	III	IV	V	VI	VII

I Basic Type Designation**II Number of Poles 4 up to 5****III Type of connector and terminal type**

SB1	=	single screw terminal provided with female contact without wire protection
SS1	=	single screw terminal provided with male contact without wire protection

IV Kind of fixing

M0	=	metric screw thread straight exit
M9	=	metric screw thread angled exit 90°

V Extended kind of fixing

0	=	M20
1	=	M25
2	=	M32 (intended, only)
3	=	M16

VI Retaining means

V	=	with retaining means
---	---	----------------------

VII Colour: all colours, i. e.

GL	=	grey
SW	=	black
TB	=	turquoise blue (50/250V) – special Coding
BR	=	brown (50V) – special Coding

Note: Suffices, which are obvious like colour, retaining means, i.e., are optional and are not marked on the product.

ATEX_Ex nA II T6

**wieland**

Wieland Electric GmbH
Brennerstraße 10-14 • Bamberg
☎ D-96045 • 📠 D-96052

10/07 2007

**wieland**Elektrische
Verbindungen

Type designation code
connector system RST20I4 u. 5.. – 250/400V, 20A
portable
rewirable connector with screw terminal

<u>RST20I</u>	<u>5</u>	<u>KS</u>	<u>BS</u>	<u>—</u>	<u>25</u>	<u>P</u>	<u>GL</u>
I	II	III	IV	V	VI	VII	VIII

I Basic Type Designation

II Number of Poles: 4 up to 5

III Type of terminal

KS = screw terminal

IV Type of connector

BS	=	female contact – male contact
B -	=	female contact – free cable end
- S	=	free cable end – male contact

V Special model

no suffix = standard form

VI Cross section

15	=	1,5 mm ² (16A for H05VV-F; 12,5A for H07RN-F)
25	=	2,5 mm ² (20A for H05VV-F; 17A for H07RN-F)

VII Type of cable

no suffix	=	rubber insulation cable H07RN-F
P	=	PVC cable H05VV-F

VIII Colour: all colours, i. e.

GL	=	grey
SW	=	black
TB	=	turquoise blue (50/250V) – special Coding
BR	=	brown (50V) – special Coding

Note: Suffices, which are obvious like colour, are optional and are not marked on the product.

**wieland**

Wieland Electric GmbH
Brennerstraße 10-14 • Bamberg
☎ D-96045 • 📠 D-96052

10/07/2007

ATEX_ Ex nA II T6



Type designation code
connector system RST 20I5B.. – 250/400V, 20A
distribution box and end caps

<u>RST 20I</u>	<u>5</u>	<u>B</u>	<u>3P1</u>	<u>—</u>	<u>F</u>	<u>V</u>	<u>2</u>	<u>SW</u>
I	II	III	IV	V	VI	VII	VIII	IX

I **Basic Type Designation**

II **Number of Poles**

3 = 3 pole
5 = 5 pole



III **Distribution Type**

B = distribution box with RST20I.. – screw contact

IV **Number of channels, e.g.:**

2G1 = one female output with one male input and
one 3-pole female output, (with L1 or L2 or L3)
4G1 = one female output with one male input and three 3-pole female output
(phase modulation)
7G1 = one female output with one male input and six female outputs
(phase modulation - L1, L2, L3)
2P1 = two female outputs with one male input
3P1 = three female outputs with one male input
4P2 = two female outputs with one male input, two times
5P1 = five female outputs with one male input
3A1 = three 3-pole female outputs with one male input (phase modulation)

V **mounting form**

no suffix = standard form
B = high type

VI **Mounting means**

no suffix = without mounting means
F = screw type mounting

VII **Retaining means (male input, only)**

no suffix = without retaining means
V = with retaining means



wieland

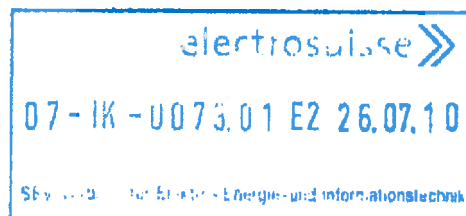
Elektrische
Verbindungen

VIII Extended electrical function (according to Pos. IV)

no suffix	=	standard configuration
1	=	phase modulation L1/PE/N
2	=	phase modulation L2/PE/N
3	=	phase modulation L3/PE/N
4	=	phase modulation L3,L2,L3

IX Colour of housing

SW	=	black
LG	=	light grey



Accessory: End cabs, e.g.: no. 05.564.4453.0/1, 05.565.9953.0/1 and no. Z5.564.4453.0/1, Z5.565.9853.0/1 optionally with and without protection against losing for male and female outputs.

Note: Suffices, which are obvious, i.e. colour, coding, rated value of installation couplers are optional and are not marked on the product.



wieland

Wieland Electric GmbH
Brennerstraße 10-14 • Bamberg
☎ D-96045 • 📠 D-96052

27.10.09

i.v.

J. Siegel



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 SEV 15.0024X issue No.: 0 Certificate history:

Status: **Current**

Date of Issue: **2015-11-12**

Page 1 of 4

Applicant: **Wieland Electric GmbH**
Brennerstrasse 10-14
96052 Bamberg
Germany

Electrical Apparatus: **Installation plug-in connectors**
Optional accessory:

Type of Protection: **Increased safety "ec", Enclosure "tc"**

Marking: **Ex ec IIC T6 Gc**
Ex tc IIIC T85 °C Dc

Approved for issue on behalf of the IECEx
Certification Body:

Martin Plüss

Position:

Manager Product Certification

Signature:
(for printed version)

Date:

2015-11-12

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:

Electrosuisse div. Testing and Certification
Luppenstrasse 1
CH-8320 FEHRALTORF
Switzerland





IECEx Certificate of Conformity

Certificate No.: IECEx SEV 15.0024X

Date of Issue: 2015-11-12

Issue No.: 0

Page 2 of 4

Manufacturer: **Wieland Electric GmbH**
Brennerstrasse 10-14
96052 Bamberg
Germany

Additional 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 : 2011 Edition: 6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-31 : 2013 Edition: 2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
IEC 60079-7 : 2015 Edition: 5.0	Explosive atmospheres – Part 7: Equipment protection by increased safety "e"

*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:
[CH/SEV/ExTR15.0026/00](#)

Quality Assessment Report:
[NL/DEK/QAR12.0047/02](#)



IECEx Certificate of Conformity

Certificate No.: IECEx SEV 15.0024X

Date of Issue: 2015-11-12

Issue No.: 0

Page 3 of 4

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

RST 20i2** to RST20i5**

RST 20i2** and RST 20i3**: 250 V AC, 20 A

RST 20i4** and RST 20i5**: 400 V AC, 20 A

CONDITIONS OF CERTIFICATION: YES as shown below:

The following warning indication must be provided on the RST 20i2** - RST 20i5** installation connectors: **WARNING: DO NOT DISCONNECT UNDER LOAD**

The RST 20i2** to RST 20i5** installation connectors may only be installed where they are protected from the effects of mechanical hazards.

Unrequired plug and socket parts must be sealed with the appropriate end caps.

Wires and cables connected to the RST 20i2** to RST 20i5** installation connector must be protected from the effects of mechanical hazards. The installer/operator must also provide appropriate strain relief for the connected wires and cables.

Special condition for extended temperature range -20 °C to +70 °C:

For the installation connectors RST 20i3** and RST 20i5** for unit and initial screw-type connection is needed a conductor cross-section of $\geq 2.5 \text{ mm}^2$ with a maximum current load of 9.4 A for three-pin and 9.7 A for five-pin.

The risk of an electrostatic charge of the installation connectors; RST 20i3** and RST 20i5** (distribution boxes & connectors with twin connection) must be prevented by the following measure: Maintenance and/or cleaning may be carried out only, if it is guaranteed that no combustible atmosphere is present. The following warning must be provided on the distribution boxes & connectors with twin connection: **WARNING – POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS**



IECEx Certificate of Conformity

Certificate No.: IECEx SEV 15.0024X

Date of Issue: 2015-11-12

Issue No.: 0

Page 4 of 4

EQUIPMENT(continued):

The RST 20i2** to RST 20i5** installation connectors serve for quicker and easier connection and as a connection system for equipment with the type of protection "ec". It provides a continuous plug-in solution from distribution boards to any consumer point.

List of product see at the following descriptions:

Type designation code connector system

RST20i5B** – 250/400 V, 20 A distribution box and end caps with Accessoires

Type designation code connector system

RST20i3** – 250 V distribution blocks and end caps

Type of designation code connector system

RST20i2** and RST20i3** – 250 V, 20 A re-wirable connectors with screw- and screwless terminals, with single and double terminals.

Type designation code connector system

RST20i4** and RST20i5** – 250/400 V, 20 A re-wireable connectors with screw terminals, with single and double terminals.

Type designation code connector system:

RST20i*** – connector with prefabricated lines (2- to 5-poles):

for example RST20i3K1...- 250 V

or RST20i4KS.. - 250/400 V depending on cross-section for connectors with cable assemblies with cable types H05VV-F and cable types H07RN-F with cross section 1.5 mm² to 2.5 mm²

Remark **:

The characters ** show placeholder for subgroups.