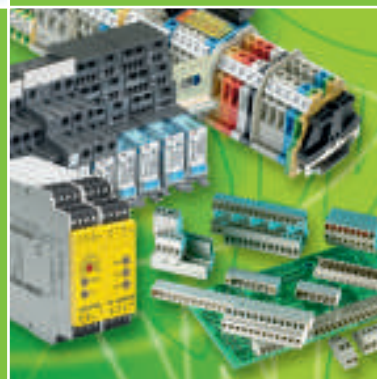




Overview of components  
for heating, ventilation,  
and air conditioning applications

**Perfect climate.**





## Building controls



### Pluggable PC board terminals



#### ... for pitch 3.5 / 5 / 7.5 mm

Pluggable PC board terminals for compact integration into the housing. The rising cage screw clamp termination guarantees secure connectivity even after multiple terminations. Optimized disconnect forces result in greatly improved handling, especially for higher pole configurations.

**Features:**

- **As compact as a terminal block, but still pluggable**
- **Increased wiring cross section for larger or multiple conductors**
- **Optimized mating and disconnect forces**

### PC board connectors



#### ... for various connection methods

The pin headers are usually installed inside the housing, and are accessible externally via a cut-out in the housing. This means that the customer is offered a high degree of flexibility when selecting the connection technology. All current carrying components are touch-safe.

**Features:**

- **Broad portfolio with many versions**
- **Available in 3.5 - 7.62 mm pitch**
- **Codeable**

### Reflow process solutions



#### THR products for automated assembly

For use in reflow processes, our THR pin headers are available in high-temperature material, and in packaging suitable for automated Pick & Place assembly.

**Features:**

- **Cost savings through process simplification**
- **Broad portfolio of THR pin headers**
- **Tape on reel and tray packaging**



## Climate control



### 8142 Z RF - with mounting foot



#### Pluggable terminals with snap-in mounting

The great advantage of this connector is realized when replacement of the control unit is required. No wires need to be disconnected, nor do any connectors need to be replaced. No special training is required to replace the unit.

#### Features:

- As compact as a terminal block, but still pluggable
- Screw connection with rising cage technology
- Pin headers in THR design available

### 8142 Z F2 - with lateral mounting flanges



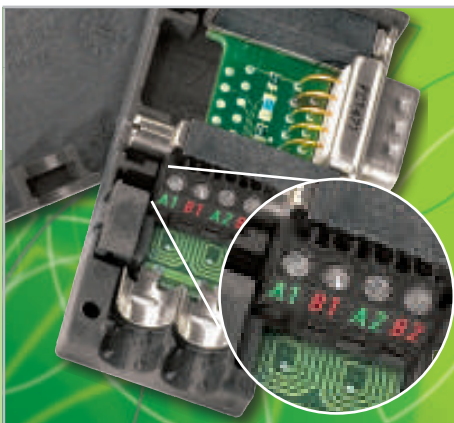
#### Pluggable terminals with snap-in mounting

The solution for easy installation in confined spaces. Narrow housings, such as those used for motion detectors, particularly benefit from this installation option.

#### Features:

- As compact as a terminal block, but still pluggable
- Screw connection with rising cage technology
- Pin headers in THR design available

### PC board terminals, soldered



#### PC board terminal blocks

PC board terminals are used when the connection technology is to be connected directly to the PC board. They are available in various connection methods and designs, and offer possible solutions for many requirements.

#### Features:

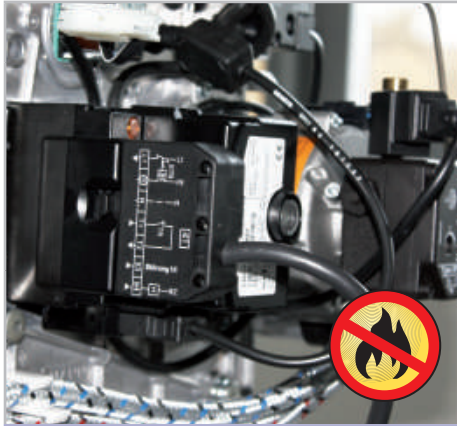
- Compact and cost-efficient
- Broad portfolio for 3.5 – 10.16 pitches
- Up to 10mm connection and 56 A



## Heating technology applications



### gesis® ST 18



#### Burner-boiler connection

Wieland's famous *gesis* ST 18 connector is mainly used for connecting boilers and burners. In different designs, it is used for both the first and second burner applications.

#### Features:

- Mechanically coded at the factory
- Robust plug connector
- Available in a "no flame" version

### gesis® GST 18



#### Burner control connection

GST 18 is the successor to the ST 18, and is available with 3, 4, 5 or 6 poles. Different applications can be clearly separated via mechanical coding, and the color of the connectors indicates matching connections.

#### Features:

- Mechanically coded at the factory
- With screw and spring clamp connection
- 16 A
- Available in a "no flame" version

### gesis® GST 15



#### Burner control connection

Miniaturization continues with the GST 15, which is roughly 1/3 smaller and available in many designs and pole configurations, with coding and distribution elements for various applications. With its 16A rating it is still a replacement for its "big brother", and it is well suited to VDE-compliant installations.

#### Features:

- Small and easy to handle
- Mechanically coded at the factory
- 16 A
- Available in a „no flame“ version



## RAST 5 Wieland 8105 series



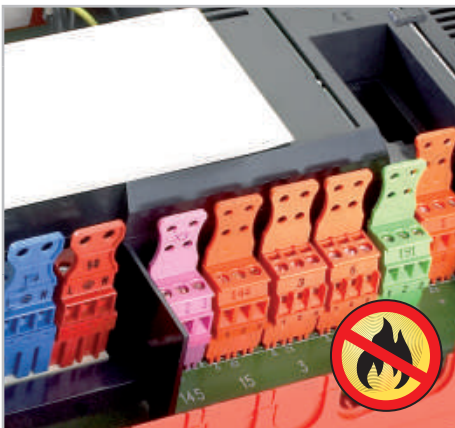
### Actuator-control connection (supply voltage)

Rast 5 is an industry standard plug design. Rast 5 connections are mainly used in heating technology. They are specifically coded at the factory, and offer both plug-gability and operational reliability, as well as considerable advantages for the final installer.

#### Features:

- Standard and custom coding options
- Standard and custom markings
- Wide variety of standard and "no flame" colors

## PC board connectors



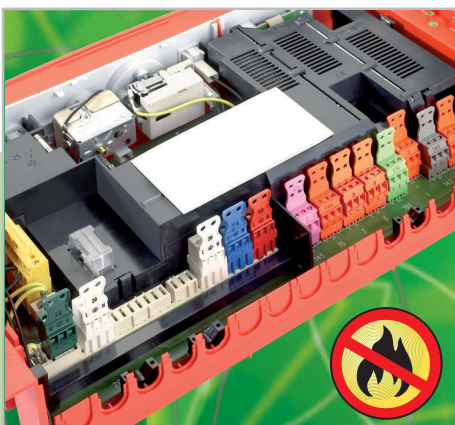
### Sensor/actuator-control connection (signal)

Our customers in the heating industry know Wieland PC board connectors in a 5.08 pitch (8213 S and B series) for their supreme quality and long-lasting reliability. They are used mostly for connecting the control inputs and outputs.

#### Features:

- Fixed coding available
- Wide variety of headers and plugs
- Wide variety of standard and "no flame" colors

## PC board connectors according to EN 60 335 -1



### Plastics with robust requirements

The objective of the standard, in unattended electrical devices, for connectors having a current load in excess of 0.2A per contact, is to eliminate any plastic that is not self extinguishing within 2 seconds. The testing procedure required for this is complex, and Wieland offers suitable solutions and support.

#### Features:

- 15 different colors available
- Wide range of PC board connectors
- Customer-specific portfolio extension possible



## **selos**



### **DIN rail terminal blocks with screw connection technology**

**selos New Generation** combines the advantages of the classical screw connection with the modern interconnection technology, whereby, the focus is on customer benefits and increase in efficiency of wiring and logistics.

#### **Features:**

- **Maintenance-free screw connection**
- **Double-row, pluggable bridging duct**
- **Multi-wire connection feasible**
- **Wire can be connected with and without cable end sleeves**

## **fasis**



### **DIN rail terminal blocks with tension spring technology**

Do you wish to terminate wires easily, directly and without tools? **fasis** WTP – these are DIN rail terminal blocks with push-in-connection.

The DIN rail terminal blocks with tension spring technology: **fasis** WKFN is easy to operate, saves time and reduces wiring and inventory costs.

#### **Features:**

- **Tool-free push-in connection**
- **Vibration-resistant tension spring connection**
- **Double-row, pluggable bridging duct**
- **Optimized portfolio – fewer terminal blocks – same functionality**
- **Integrated release lever for *fasis* WTP**

## **safety**



### **Compact safety controls and relays**

For safety reasons, system parts for the supply of fuel must be equipped with control devices and equipment components that ensure safe switch-off. The safety relays from the **SNA** and **SNV** series allow safe interruption of the fuel supply (according to EN 50156 2 diverse relay outputs).

#### **Features:**

- **Certified according to EN 50156**
- **Easy configuration**
- **Expert application support**



## wipos



### Power supply

A 24 V control voltage can be generated using the robust **wipos** power supplies. The devices are designed and approved worldwide for a broad temperature range from -25 °C to +71 °C.

#### Features:

- Automatic or adjustable wide range voltage input
- Robust operational reliability
- Can be switched in parallel from 5 A upwards

## interface



### Coupling, measuring, timer and monitoring relays

These components are basic elements for those applications that do not require expensive controls, or future modifications. In this field of application, Wieland offers a wide range of components with a number of different features.

#### Features:

- Broad portfolio
- High functionality
- High reliability

## wietap



### Overvoltage protection with short response time

A complete safety system can be implemented using **wietap** lightning and overvoltage modules. The devices fulfill the most extreme demands made on their current carrying capability. The pluggable mounting design enables quick replacement of modules and fulfills the highest requirements in operation.

#### Features:

- Electrically coordinated product family
- High discharge capacity up to 100 kA
- Latching pluggable protection modules



# wieland

Company Headquarters:  
Wieland Electric GmbH  
Brennerstraße 10 – 14  
96052 Bamberg, Germany

Sales and Marketing Center:  
Wieland Electric GmbH  
Benzstraße 9  
96052 Bamberg, Germany

Phone +49 951 9324-0  
Fax +49 951 9324-198  
www.wieland-electric.com  
www.gesis.com  
info@wieland-electric.com

## Our subsidiaries



**USA**  
**Wieland Electric Inc.**  
**North American Headquarters**  
2889 Brighton Road  
Oakville, Ontario L6H 6C9  
Phone +1 905 8298414  
Fax +1 905 829 413  
www.wielandinc.com



**CANADA**  
**Wieland Electric Inc.**  
**North American Headquarters**  
2889 Brighton Road  
Oakville, Ontario L6H 6C9  
Phone +1 905 8298414  
Fax +1 905 829 413  
www.wieland-electric.ca



**GREAT BRITAIN**  
**Wieland Electric Ltd.**  
Riverside Business Centre,  
Walnut Tree Close  
GB Guildford/Surrey GU1 4UG  
Phone +44 1483 531213  
Fax +44 1483 505029  
sales@wieland.co.uk



**FRANCE**  
**Wieland Electric SARL.**  
Le Céramê, Hall 6  
47, avenue des Genottes  
CS 48313,  
95803 Cergy-Pontoise Cedex  
Phone +33 1 30320707  
Fax +33 1 30320717  
infos@wieland-electric.fr



**SPAIN**  
**Wieland Electric S.L.**  
C/ Maria Auxiliadora 2 bajos  
E-08017 Barcelona  
Phone +34 93 2523820  
Fax +34 93 2523825  
ventas@wieland-electric.com



**ITALY**  
**Wieland Electric S.r.l.**  
Via Edison, 209  
I-20019 Settimo Milanese  
Phone +39 02 48 916357  
Fax +39 02 48 920685  
info@wieland-electric.it



**POLAND**  
**Wieland Electric Sp. Zo.o.**  
Św. Antoniego 8  
62-080 Swadzim  
Phone +48 61 2225400  
Fax +48 61 8407166  
office@wieland-electric.pl



**CHINA**  
**Wieland Electric Trading**  
Unit 2703 International  
Soho City 889 Renmin Road  
Huang Pu District  
PRC-Shanghai 200010  
Phone +86 21 63555833  
Fax +86 21 63550090  
info-shanghai@wieland-electric.cn



**DENMARK**  
**Wieland Electric A/S**  
Vallørøkken 26  
DK-4600 Køge  
Phone +45 70 266635  
Fax +45 70 266637  
sales@wieland-electric.dk



**BELGIUM**  
**ATEM – Wieland Electric NV**  
Bedrijvenpark De Veert 4  
B-2830 Willebroek  
Phone +32 3 8661800  
Fax +32 3 8661828  
info.belgium@wieland-electric.com

**Agencies:**  
**Wieland Electric is represented in more than 40 countries worldwide.**  
**The contact addresses can be found at:**  
**www.wieland-electric.com**



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