# terminal box 24-pin

**SCHNEID**

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Products, data sheets, documentation, MR12-SCHEMA-calculator: www.schneid.at

## SCHNEID terminal box 24-pin for FSS-SCHNEID systems
with two pluggable SCHNEID surge arrester modules FSS-SCHNEID.

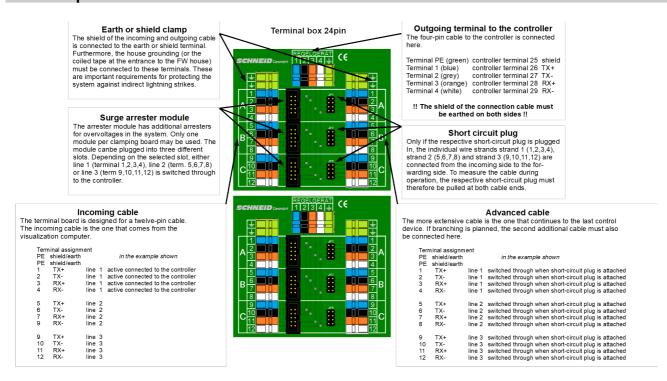| Order number: | **020.07883** |
|---|---|
| **Order code:** | **Anklemmdose 24polig für FSS-SCHNEID Systeme** |



## Overview:

The SCHNEID terminal box 24-pin for FSS-SCHNEID systems is used to clamp the underground data cable according to the specifications for networks (for more information, see www. Schneid.at). In addition, all the arrester modules and protective devices required to protect the network from indirect lightning strikes are integrated in the box.
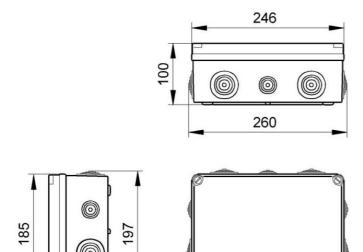
## Terminal plan:



Terminal box 24pin

**Earth or shield clamp**
The shield of the incoming and outgoing cable is connected to the earth or shield terminal. Furthermore, the house grounding (or the coiled tape at the entrance to the FW house) must be connected to these terminals. These are important requirements for protecting the system against indirect lightning strikes.

**Surge arrester module**
The arrester module has additional arresters for overvoltages in the system. Only one module per clamping board may be used. The module canbe plugged into three different slots. Depending on the selected slot, either line 1 (terminal 1,2,3,4), line 2 (term. 5,6,7,8) or line 3 (term 9,10,11,12) is switched through to the controller.

**Outgoing terminal to the controller**
The four-pin cable to the controller is connected here.

Terminal PE (green)    controller terminal 25  shield
Terminal 1 (blue)       controller terminal 26  TX+
Terminal 2 (grey)       controller terminal 27  TX-
Terminal 3 (orange)     controller terminal 28  RX+
Terminal 4 (white)      controller terminal 29  RX-

**!! The shield of the connection cable must be earthed on both sides !!**

**Short circuit plug**
Only if the respective short-circuit plug is plugged In, the individual wire strands strand 1 (1,2,3,4), strand 2 (5,6,7,8) and strand 3 (9,10,11,12) are connected from the incoming side to the for-warding side. To measure the cable during operation, the respective short-circuit plug must therefore be pulled at both cable ends.

**Incoming cable**
The terminal board is designed for a twelve-pin cable. The incoming cable is the one that comes from the visualization computer.

| Terminal assignment | | | *in the example shown* |
|---|---|---|---|
| PE | shield/earth | | |
| PE | shield/earth | | |
| 1 | TX+ | line 1 | active connected to the controller |
| 2 | TX- | line 1 | active connected to the controller |
| 3 | RX+ | line 1 | active connected to the controller |
| 4 | RX- | line 1 | active connected to the controller |
| 5 | TX+ | line 2 | |
| 6 | TX- | line 2 | |
| 7 | RX+ | line 2 | |
| 9 | RX- | line 2 | |
| 9 | TX+ | line 3 | |
| 10 | TX- | line 3 | |
| 11 | RX+ | line 3 | |
| 12 | RX- | line 3 | |

**Advanced cable**
The more extensive cable is the one that continues to the last control device. If branching is planned, the second additional cable must also be connected here.

| Terminal assignment | | | *in the example shown* |
|---|---|---|---|
| PE | shield/earth | | |
| PE | shield/earth | | |
| 1 | TX+ | line 1 | switched through when short-circuit plug is attached |
| 2 | TX- | line 1 | switched through when short-circuit plug is attached |
| 3 | RX+ | line 1 | switched through when short-circuit plug is attached |
| 4 | RX- | line 1 | switched through when short-circuit plug is attached |
| 5 | TX+ | line 2 | switched through when short-circuit plug is attached |
| 6 | TX- | line 2 | switched through when short-circuit plug is attached |
| 7 | RX+ | line 2 | switched through when short-circuit plug is attached |
| 8 | RX- | line 2 | switched through when short-circuit plug is attached |
| 9 | TX+ | line 3 | switched through when short-circuit plug is attached |
| 10 | TX- | line 3 | switched through when short-circuit plug is attached |
| 11 | RX+ | line 3 | switched through when short-circuit plug is attached |
| 12 | RX- | line 3 | switched through when short-circuit plug is attached |

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## Scope of delivery:

SCHNEID terminal box 24P for FSS-SCHNEID systems with two pluggable SCHNEID surge arrester modules FSS-SCHNEID

## Technical specifications:

| | |
|---|---|
| Intrastat number: | 8537.10.91.99 |
| Country of origin | EU/AT |
| Height, width, depth (in mm) | 185x246x100mm |
| Weight  (in kg) | 0,552 |
| Degree of protection | IP-65 |
| Ambient temperature | 0°C....+40°C |
| Breakdown Voltage $V_{BR}$ | 9,5 – 10,5V |
| Maximum Clamping Voltage $V_C$ | 14,5V |
| Maximum Peak Pulse $I_{PPM}$ | 103A |
| Peak Pulse Power (10/1000µs) | 1500W |
| Connection type | Terminals for fixed wiring |
| Connection technology | spring terminal |
| Cable cross-section | Max. 2.5mm² |
| Mounting type | wall mounting |
| Operating time | continuous operation |
| Degree of pollution | 2 |
| | |