

Terminal module 12-pin

Scope of delivery:

SCHNEID 2-pole terminal module for FSS-SCHNEID systems with plug-in SCHNEID surge arrester module FSS-SCHNEID in DIN rail with two side covers and two clips.

Terminal plan:

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 can be 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.

Terminal box for a twelve-pin cable

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 | |
| 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 | |
| 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 |

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 forwarding side. To measure the cable during operation, the respective short-circuit plug must therefore be pulled at both cable ends.

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 !!