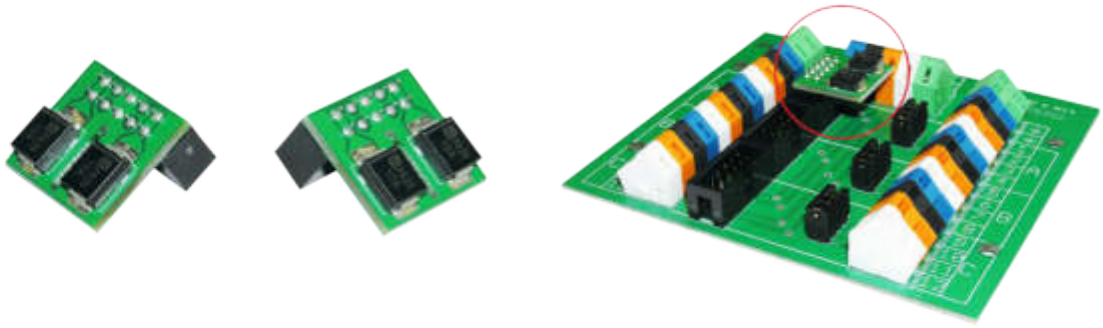
Surge arrester module FSS-SCHNEID

SCHNEID surge arrester module FSS-SCHNEID
for installation in the SCHNEID data socket

Order number:	**020.00727**
Order code:	**Überspannungs-Ableitermodul FSS**



Overview:

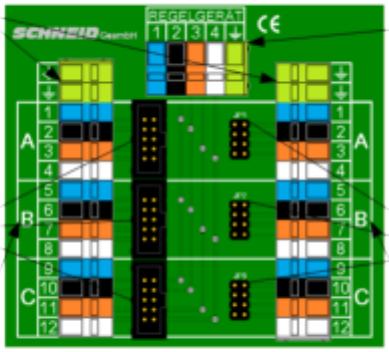
The SCHNEID surge arrester module FSS-SCHNEID is plugged into the respective slot of the SCHNEID data socket.
The arrester module protects the data interface of the control device against overvoltages as a result of indirect lightning strikes.

Please observe the connection instructions for SCHNEID data networks.

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 (terminal 5,6,7,8) or
line 3 (terminal 9,10,11,12) is switched through to the controller.

Terminal box for a twelve-pin cable



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 forwarding 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			
PE	shield/earth		*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			
PE	shield/earth		*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