SCHNEID

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

SCHNEID terminal box 12-pin for MBus networks
with pluggable SCHNEID surge arrester module M-BUS

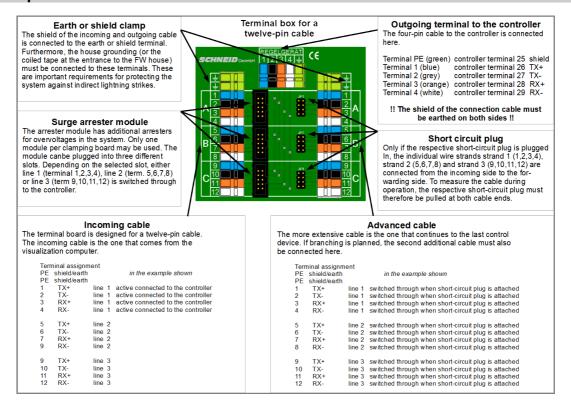| Order number:	020.07882
Order code:	Anklemmdose 12polig für MBus-Netzwerke

Overview:

The SCHNEID terminal box 12-pin for MBus networks is used to clamp the earth 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.

Anklemmplan:

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.

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 !!

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.

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