

12-pin terminal box for MBus networks



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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 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.

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
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
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, 12-pin for MBus networks with pluggable SCHNEID surge arrester module M-BUS.

Technische Daten:

Intrastat number:	8537.10.91.99
Country of origin	EU/AT
Height, width, depth (in mm)	127x170x83
Weight (in kg)	0,317
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 (10/1000 μ s)	1500W
Connection type	Terminals for fixed wiring
Connection technology	spring terminal
Cable cross-section	Max. 2.5mm ²
Mounting type	wall mounting
Operating time	continuous operation
Degree of pollution	2