

TA309

Cable Kit for Modules with Pico-Clasp Connector

Version 1.0

User Manual

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TA309-10R

Cable Kit for Modules with Pico-Clasp Connector

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Style Conventions

Hexadecimal characters are specified with prefix 0x, i.e. 0x029E (that means hexadecimal value 029E).

For signals on hardware products, an ,Active Low' is represented by the signal name with # following, i.e. IP RESET#.

Access terms are described as:

W Write Only
R Read Only
R/W Read/Write
R/C Read/Clear
R/S Read/Set

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1 Product Description

The TA309 cable kit combines the TA205 Pico-Clasp Terminal Block and the TA111 Pico-Clasp cable. It is used as a standard interface to connect TEWS modules with Pico-Clasp connector to other system devices. The TA309 Cable Kit is therefore an essential wiring interface for prototyping and in the same way for machines and peripheral equipment.

Always two wires of the 30 pin Pico-Clasp cable are constructed as twisted pairs (1 and 2, 3 and 4, ..., 29 and 30).

The cable length is 0.5 m and the permissible maximum voltage for the TA309 is 50V DC.

The Pico-Clasp Terminal Block has a universal socket and may simply mount on standard EM mounting rails as a compact terminal strip. Screw connections of the used terminal block have a nominal cross section of 2.5 mm².

An additional screw connector provides a possibility to connect i.e. a cable shield with an external case ground.



2 Cable Pin Assignment

The Pico-Clasp cable provides a one to one connection between the Pico-Clasp connectors P1 and P2. The "XX" symbol denotes the wires that are constructed as twisted pairs.

Pico-Clasp P1	Pico-Clasp P2		Pico-Clasp P1	Pico-Clasp P2
1	1	∞	2	2
3	3	\propto	4	4
5	5	\propto	6	6
7	7	\propto	8	8
9	9	\propto	10	10
11	11	\propto	12	12
13	13	\propto	14	14
15	15	\propto	16	16
17	17	\propto	18	18
19	19	\propto	20	20
21	21	\propto	22	22
23	23	\propto	24	24
25	25	\propto	26	26
27	27	\propto	28	28
29	29	\propto	30	30

Table 2-1: Cable Pin Assignment



3 Terminal Block Pin Assignment

Pico-Clasp	Terminal Block
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15

Pico-Clasp	Terminal Block
16	16
17	17
18	18
19	19
20	20
21	21
22	22
23	23
24	24
25	25
26	26
27	27
28	28
29	29
30	30

Table 3-1: Terminal Block Pin Assignment

The additional screw terminal block is not connected to any pins of the Pico-Clasp connector. It can be used to connect an external cable shield to the case ground.

Terminal	Descr.
1	e.g. Shield or
2	Case Ground

Table 3-2: Terminal Block Additional Terminal Pin Assignment



4 **Assembly Drawing**

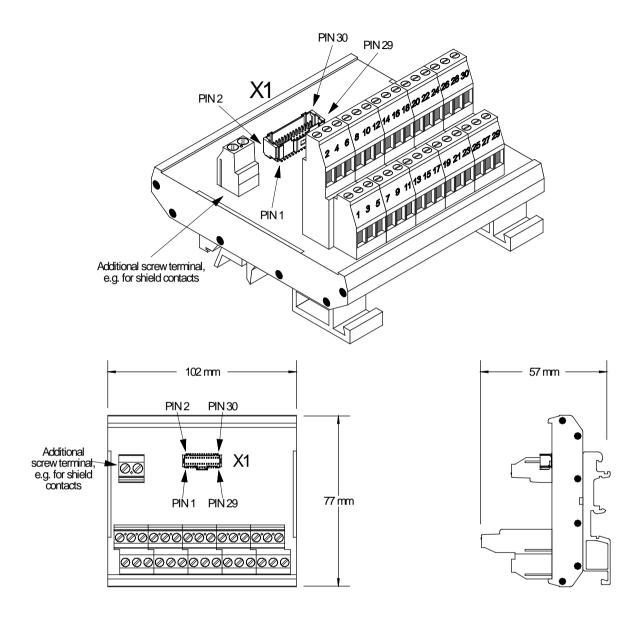


Figure 4-1: Terminal Block Assembly Drawing

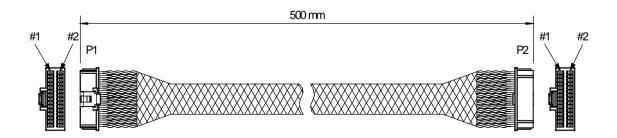


Figure 4-2: Cable Assembly Drawing