

6.3 Extension board SDCS-IOE-1

The board consists of:

- 7 isolated digital inputs
- 2 analogue inputs
- 1 current source for the supply of PTC or PT 100 elements

The board is connected electrically via a 10 pin flat cable to the converter module electronics. The connection will be done to the SDCS-CON-2 board from terminal row X17 to X17 on SDCS-IOE-1. It has to be mounted outside of the converter module. The cable length is 2 m because of EMC reasons.

Mechanical Construction

The board is mounted on a plastic housing which has foot elements (Phoenix Contact series UMK). The foot elements permit snap-in assembly to a standard DIN EN rail (EN 50022, 50035). The dimensions are including the plastic housing.

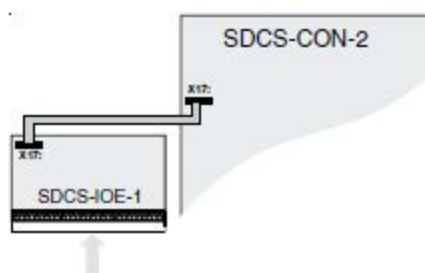
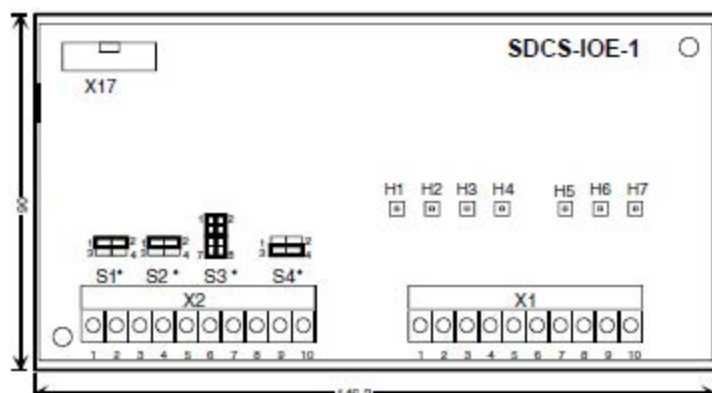


Fig. 6.3/1

Connection of the SDCS-IOE-1 board and the SDCS-CON-2 board.



Jumper coding

Functionality of analogue inputs

S1	Ch	activation of 500 Ω between input terminal	gain = 1 * -10V...+10V	gain = 10 -1V...+1V	Jumper parking *
S2	AI5	S1:3-4	YES		S1:1-2
S3	AI6	S2:3-4	NO	NO	S2:1-2

Temperature sensor supply

S4	PTC 1.5 mA	PT100 5 mA *

*default value

ice1_c.def

Fig. 6.3/2

Layout and jumper settings of the SDCS-IOE-1 board

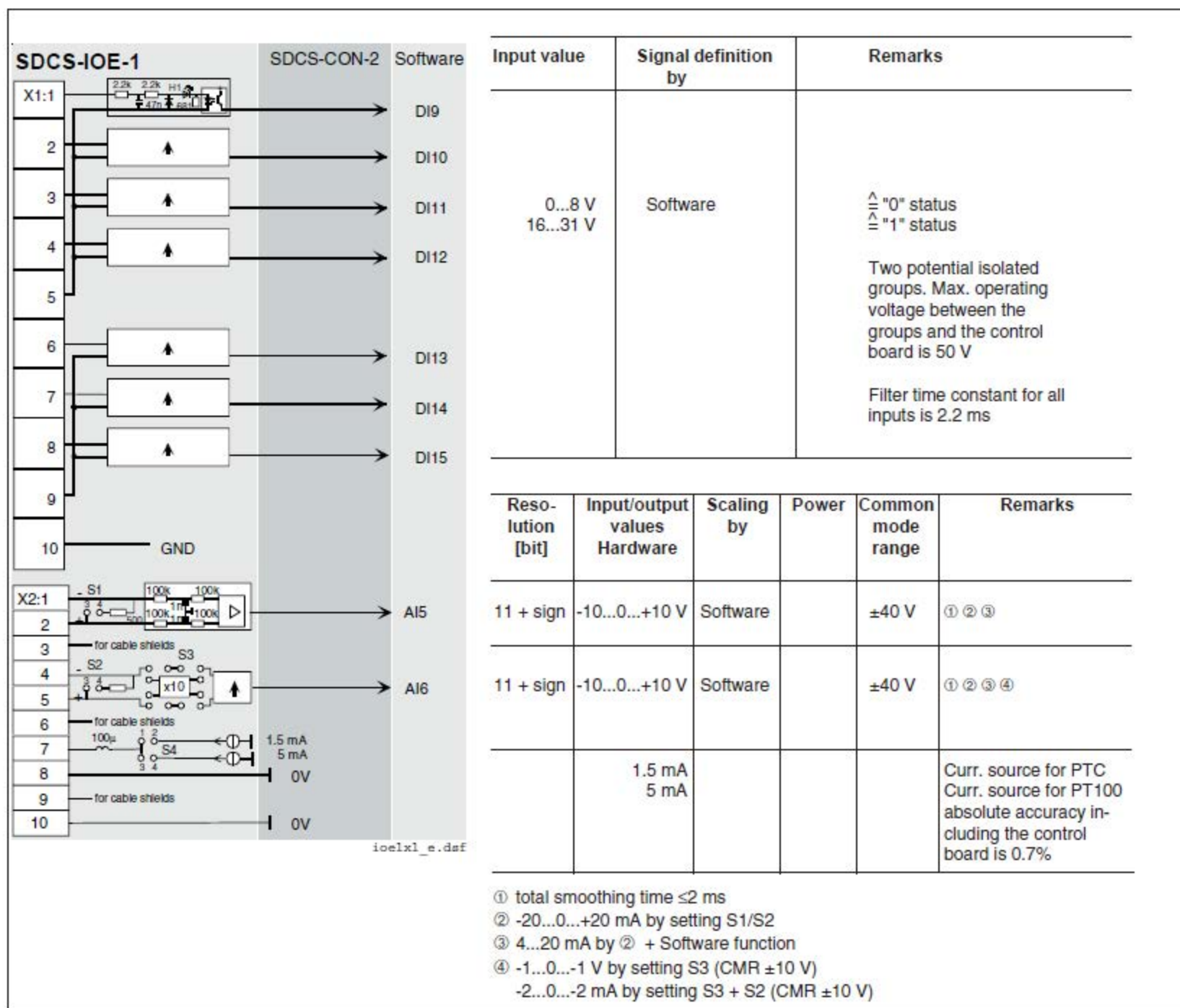


Fig. 6.3/3 Terminal connection of the SDCS-IOE-1 board