

Terminals

TERM10B

**Industrial Terminal with LCD display
with resolution 240 x 128 dots**



6.6

- 5.5" LCD display, 240 x 128 dots
- Diaphragm keyboard, 54 keys
- 6 signalization LEDs with user-defined labels
- front panel protection IP65

- 8 digital inputs with galvanic separation
- 8 digital outputs with galvanic separation (optocouplers)

- Used as
 - Control system, including display and control panel
 - Display and control panel for SofCon control systems
 - Visualization panel for TECO, Allen-Bradley, SAIA, FESTO PLC systems



Basic Characteristics

TERM 10B is a programmable, general-use system which can be used as

- **autonomous control system** for the control of machinery and devices, including a display and control panel
- **separate display and control panel** for another SofCon control system.
- **visualization panel for PLC systems supplied by other companies**, such as TECO, Allen Bradley, SAIA, FESTO.

TERM10B is based on a KITV40 (KIT386EX) processor unit, complemented with a TERM10 board, used to connect the display and keyboard and including digital inputs and outputs.

A graphic 5.5" LCD display with a resolution of 240 x 128 dots, backlit by a discharge lamp, is used for display. The brightness can be adjusted at 4 levels. The contrast is temperature-compensated and adjustable at 16 levels.

The TERM10B keyboard is diaphragm. It contains alphanumeric and functional keys as well as 6 signaling fields with LEDs with user-defined labels. TERM10B is also fitted with acoustic signaling.

TERM10B also includes 8 galvanically separated digital outputs (optocouplers) and 8 galvanically separated digital inputs. These inputs and outputs can be used to connect a control system to the real environment.

TERM10B is controlled by a KITV40 (KIT386EX) industrial control unit. It is fitted with one (with KITV40) or two (with KIT386EX) RS232 serial communication lines. Both processor boards also include 3 8-bit digital port at the TTL level, which can be used to feed other signals from the process to the control system. However, these signals must be galvanically separated by additional modules.

TERM10B can either be used separately, or it can be extended with any SofCon IO-cards (technical papers 3.x), creating a control system with the required number of additional digital or analog inputs or outputs, or a control system completed with other types of communication channels. The top cover of the terminal is chosen according to the total number of extension cards. There are versions for up to approximately 1, 4 or 8 expansion cards. The actual number of expansion cards is given by their specific types.

Ordering Information

As standard, TERM10B is delivered with the KITV40 control unit in a case allowing the addition of 1 extension IO-card and with an RS232 communication channel.

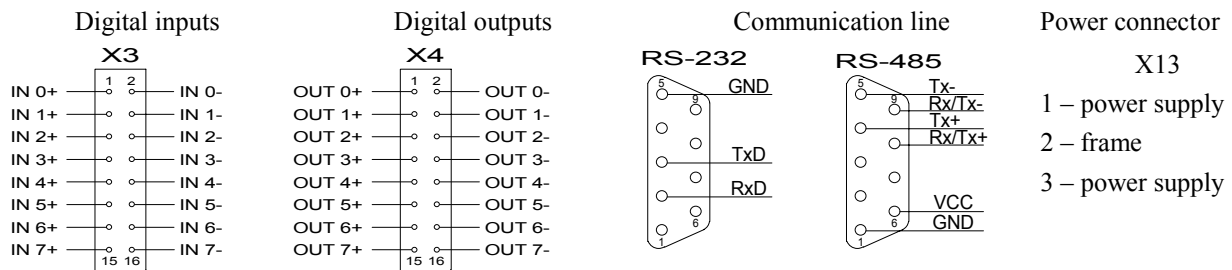
If the KIT386EX control unit is required, it must be specified in the order, along with any requirements for RS485 communication and the list of any required extension IO-cards.

Technical Data

Supply voltage	12 to 35 VDC / 15 to 26 VAC, Entrelec 3-pin connector		
Supply current max.	0.55A/12 VDC and 0.25A/35 VDC		
Display unit	LCD display 134 x 76 mm (5.5") graphic mode 240 x 128 dots alphanumeric mode 4x15, 4x16, 6x20, 8x20, 16x30, 16x40 characters backlit by a fluorescent discharge lamp		
Keyboard	diaphragm, 54 keys		
Communication interface	RS-232 or RS-485, Canon 9-pin connector (male)		
Acoustic signalization	crystal acoustic transducer		
Optic signalization	a field of 8 LEDs with user-defined labels		
Inputs	digital, galvanically separated, PFL 16-pin, X3 connector		
number	8		
insulated strength GO	500 V		
input L level	< 8 V		
input H level	> 16 V		
input H max level	30 V		
input current for H level	10 mA/24V		
Outputs	digital, galvanically separated, PFL 16-pin, X4 connector		
number	8		
insulated strength GO	500 V		
switched voltage max.	30 VDC		
switched current max.	0.2 A		
type of output	transistor with open collector and protective diode		
Control unit	KITV40 or KIT386EX		
Expansion cards	from the KITV40 set		
Protection (front panel)	IP65		
Operating temperature	0 to 50 °C		
Storage temperature	0 to 50 °C		
Design	TERM10B-V40/1	TERM10B-V40/4	TERM10B-V40/8
dimensions (w x h x d) (mm)	291 x 212 x 105	291 x 212 x 155	291 x 212 x 215
max. no. of expansion cards	1	4	8

Top View

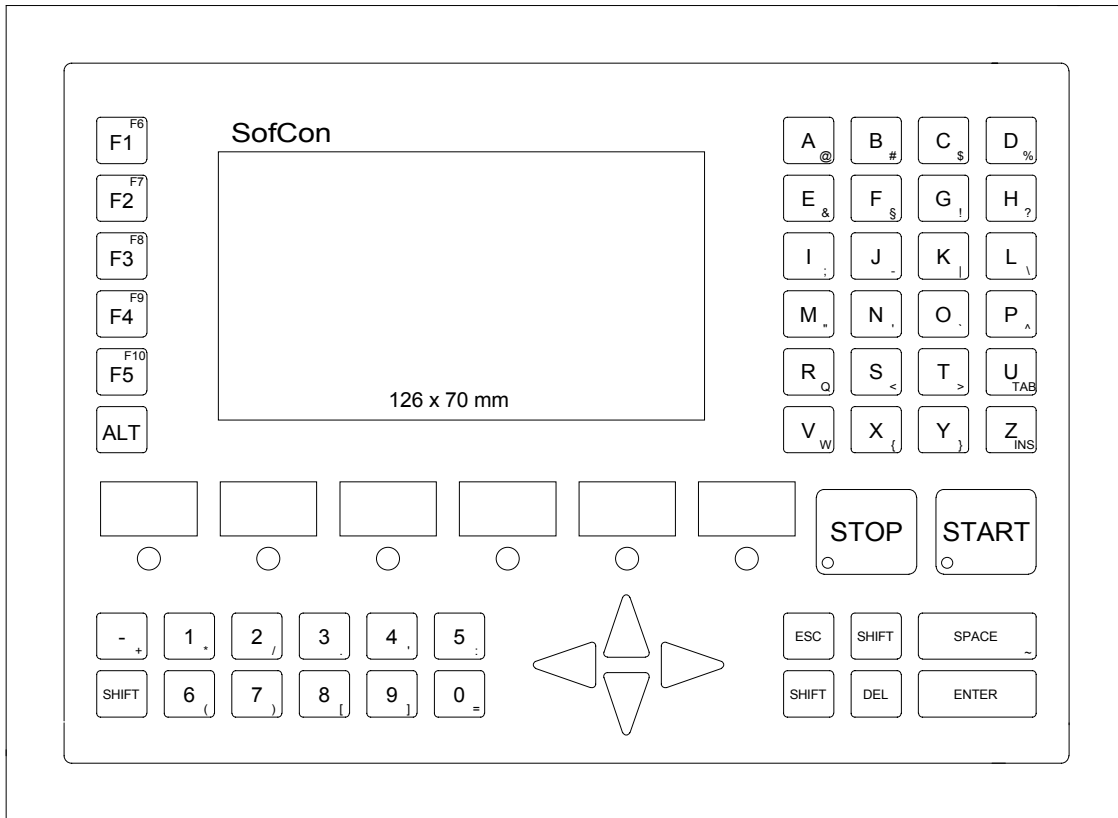
Connector connection



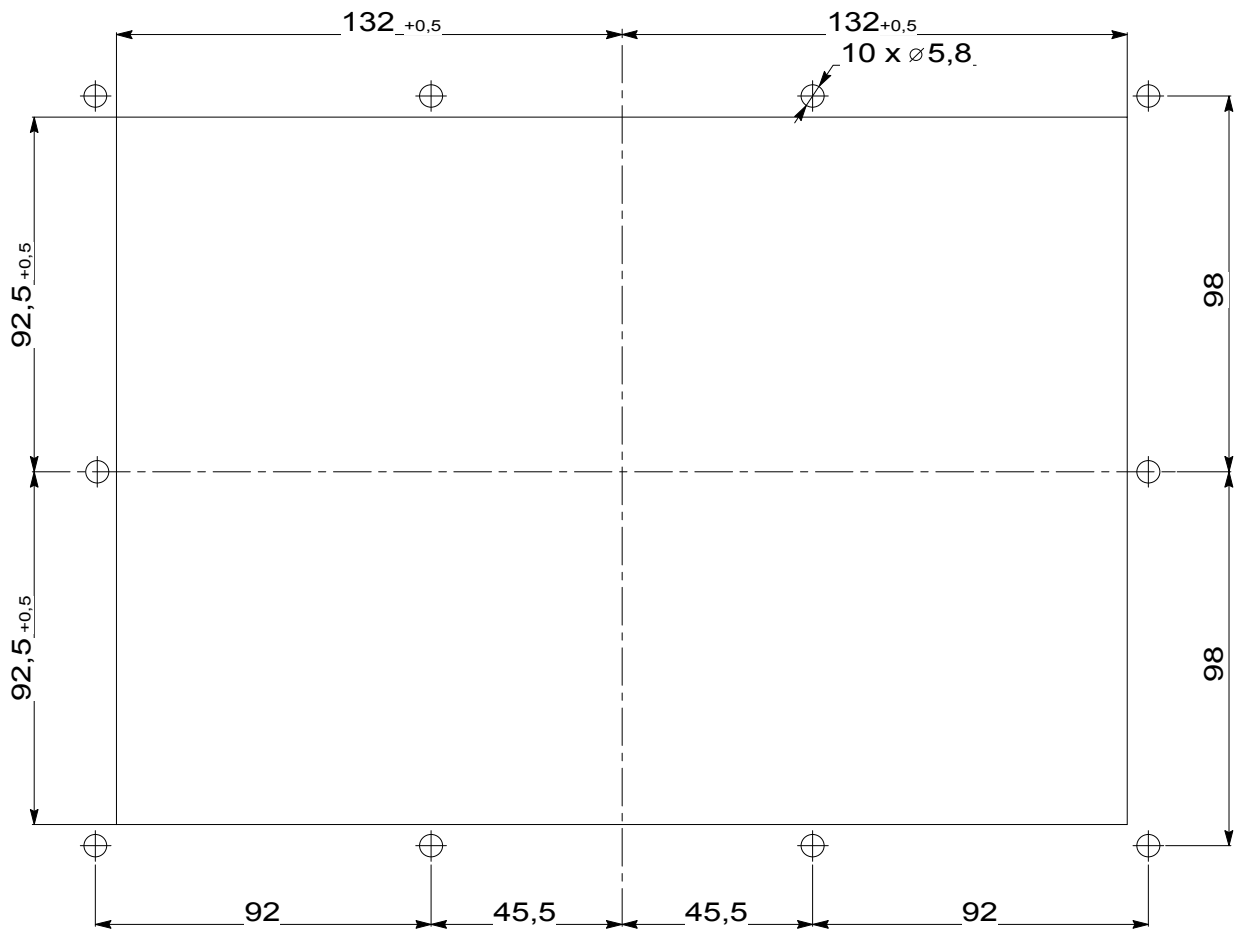
Connection of input and output circuits



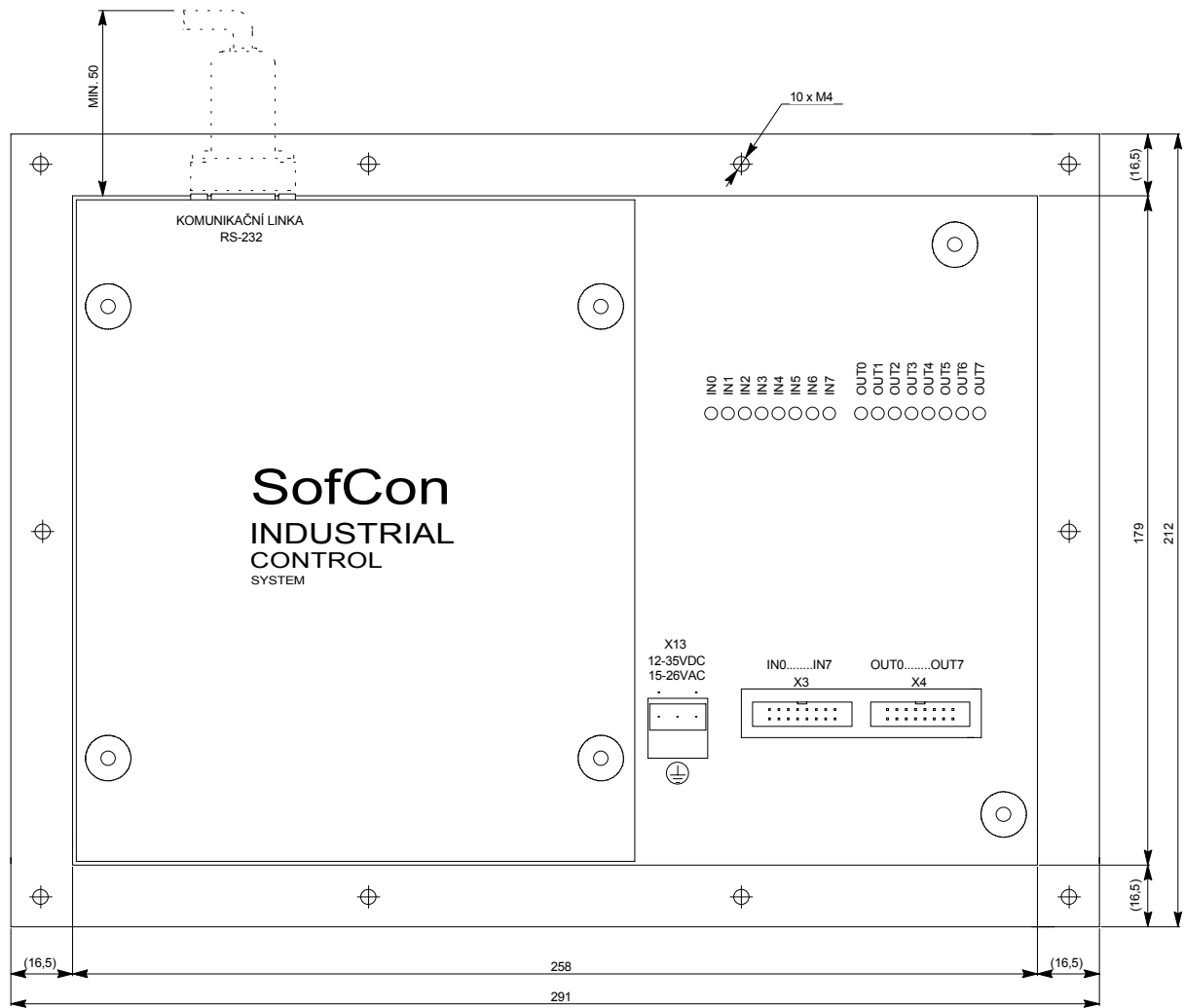
TERM10B - keyboard and display



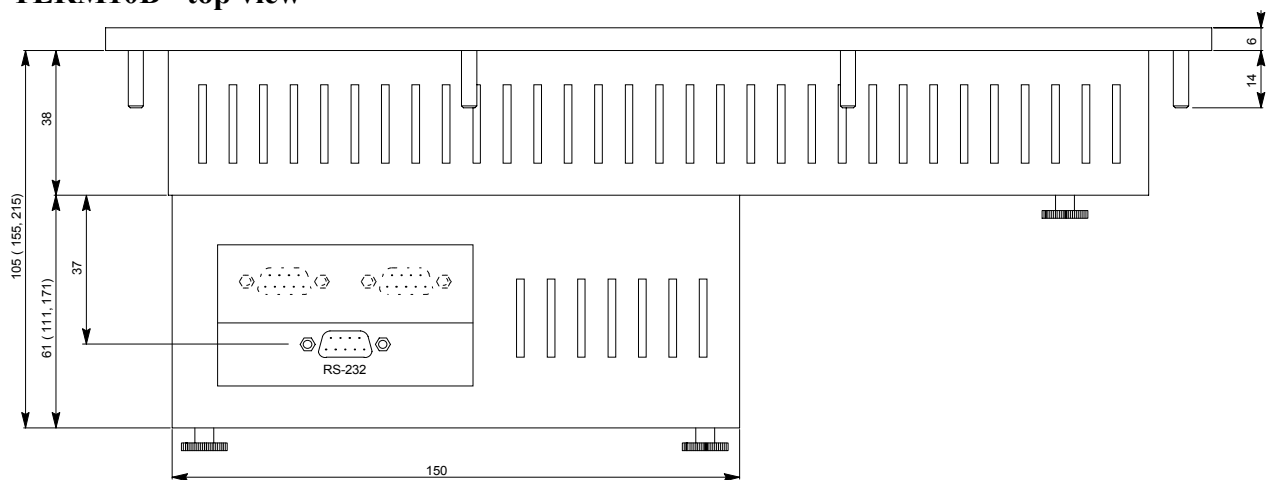
Holes for fixation TERM10B



Location of connectors on TERM10B – back view



TERM10B - top view



*) dimensions in brackets are valid only for version TERM10B-V40/4 or TERM10B-V40/8

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