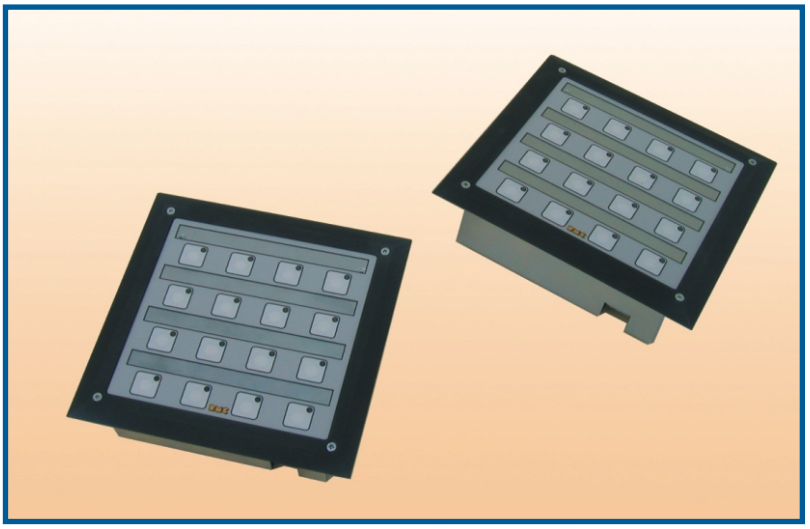
Universal keyboard TKL16

Universal keyboard of massive construction designed for heavy industry common use. It can be used for manipulation, or controlling of technical devices from ditributor control panel of machines, production lines, and technological devices. The keyboard is hitched by 4 screws into the slots in the panel. The keyboard has 16 buttons with signal LED diodes that are operated independently. Button figures and control of LED can be counted by different methods according to the keyboard type. There are 4 types of keyboards available:



TKL16A

Counting of 15 buttons in BCD code (PNP, 24V, 10mA) and controlling of 4 LED by logic signal 24VDC. Only one button can be pushed at a time. The keyboard contains acoustic and optic indication when the button is pressed.

TKL16B

16 buttons and 16 LEDs are connected to the terminal. Button pressing complies with outgoing logic signal 24V, lighting of LED complies with incoming signal 24V on appropriate clamps.

TKL16ASI

Counting of 15 buttons and controlling of 4 LEDs through serial interface ASI. Only one button can be pushed at a time. The keyboard contains acoustic and optic indication when the button is pressed.

TKL16DP

Counting of 16 buttons and controlling of 16 LEDs by serial bus PROFIBUS DP. Positioning of DP address by switches on back side. There is a possibility of pressing several buttons at the same time.

SUMMARY OF PARAMETERS:

	TKL16 A	TKL16 B	TKL16 ASI	TKL16 DP
- number of active buttons:	15	16	15	16
- number of LEDs:	4	16	4	16
- together pressed buttons:	1	optional	1	optional
- acoustic indication:	yes	no	yes	no
- optic indication of 1 LEDs:	yes	no	yes	no
- interface characteristics:	BCD code	-	ASI	PROFIBUS DP
- input/output parameters:	PNP, 24V/10mA	24V/10mA	-	-
- dimensions width x heigh x depth [mm]:	159x147x30	159x147x30	159x147x30	159x147x50
- depth of in-building [mm]:	25	25	25	45

TECHNICAL PARAMETRES:

- power supply : 24V DC ±20%
- power consumption : max. 100 mA
- protection against reversing of polarity
- exchangeable buttons description
- front panel covering IP42, with additional sealing IP65

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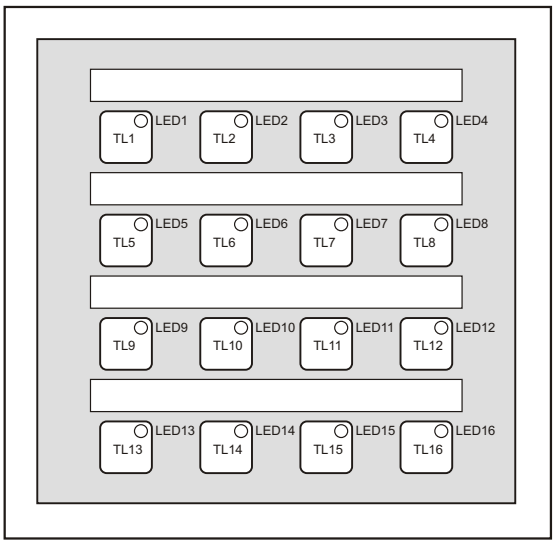
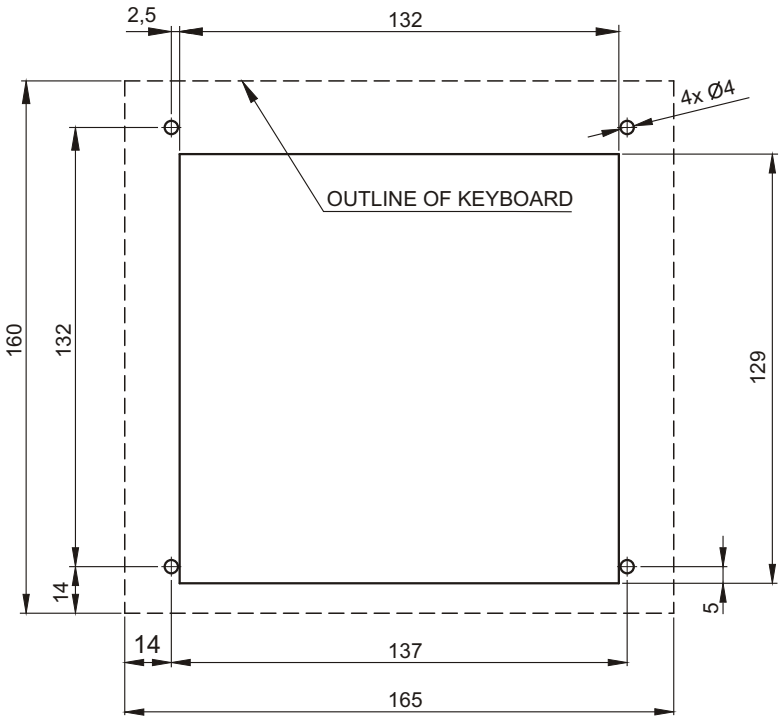
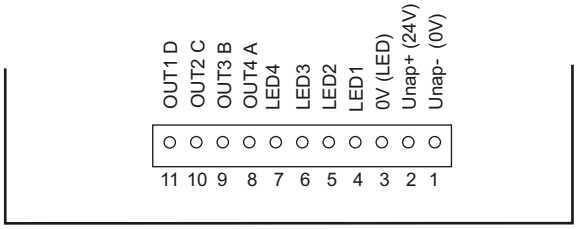


Placement of buttons and signally LED-s

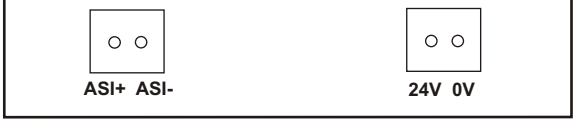


Dimensions for building to panel [mm]

TKL16A

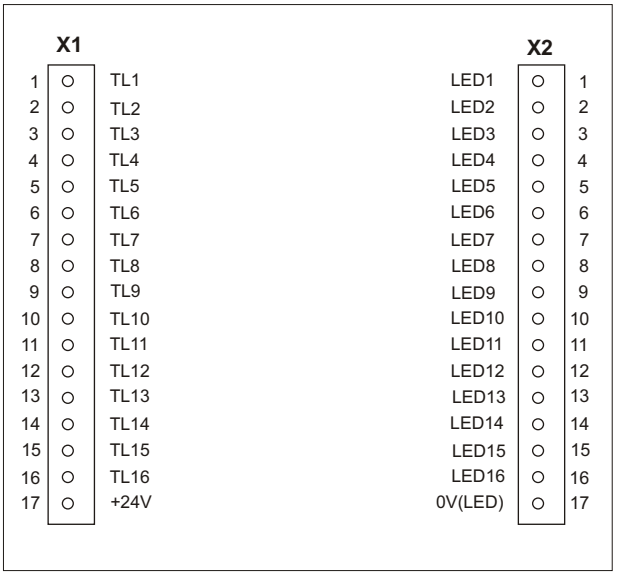


TKL16ASI

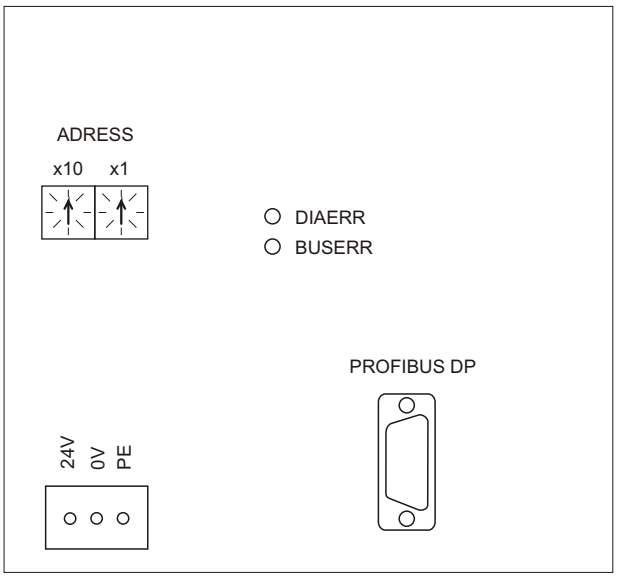


Terminal connection of the keyboard (backside)

TKL16B



TKL16DP



View from backside of the keyboard