

Input frequency board

Board **E661** contains 4 galvanic separated frequency inputs for frequency range up to 10 kHz with voltage levels 24 V or 48 V. The boards use one address in the system for input operations.

Function description

Input signals of board E661 are processed in four mutually independent counter circuits and transferred to BE bus. Control word, transferred through BE bus, could reset counter circuits or stop counting process.

Input levels are selected through choice of relevant pins in connector for related equipment. Only one level could be selected for one input. Jumper fields TP1, TP2 could modify the board features:

- Connected 1-2 TP1, 1-2 TP2. The board operates with four independent 8-bit counter circuits.
- Connected 2-3 TP1 and/or 2-3 TP2. The board counter circuit 1 + 2 and/or 3 + 4 are connected in series. The board in this modification contains two 16-bit counter circuits. Input signal is led into the board input 1 and/or input 3 in this case. Input 2 and input 4 could not be used.

When connecting to board inputs, signal polarity has to be kept. 4 green LED diodes are placed on the board front panel. LED lighting indicates presence of relevant input signal.

Technical parameters

Bus

Bus type:	BE
Feeding voltage:	+5 VDC
Feeding voltage + 5V tolerance:	± 5%
Max. feeding current from + 5V:	150 mA
Typical feeding current from + 5V:	110 mA
Max. feeding power consumption:	0.8 W

Related equipment

Number of input circuits:	4
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inputs CA - 48 V

Input voltage +CA against -CA:	48 VDC
Input voltage + 48V tolerance:	± 25%
Current consumption at 48 V:	14 mA
Current consumption at 60 V:	18 mA
Logic H level:	≥36 V
Logic L level:	≤ 15 V
Max. power consumption of inputs:	4.3 W

inputs CB - 24 V

Input voltage +CB against -CB:	24 VDC
Input voltage + 24V tolerance:	± 25%
Current consumption at 24 V:	15 mA
Current consumption at 30 V:	19 mA
Logic H level:	≥17 V
Logic L level:	≤ 7 V
Max. power consumption of inputs:	2.3 W
Min. length of L or H level:	0.05 s
Max. transfer time between LH levels:	0.075 s
Max. input frequency:	10 kHz

Other parameters

Max. power consumption:	5.1 W
Operational temperature range:	0°C..60°C
Dimension:	6HE 4TE
Weight:	0.25 kg

