

Matrix relay switch **KM50X8**



- KM50x8 is intended:
- for switching input and output lines in any combination;
 - for operation in measuring systems based on the VXIbus trunk.

The module implements the structure of a matrix switch of the form: 50x8 (50 inputs - 8 outputs).
The module performs the function of switching input and output lines in any combination.
The module provides control of the state of the switch at the level of the relay control register (closed / open).
The module provides registration of the number of responses of each

relay with saving the results in non-volatile memory. The maximum recorded number of trips is equal to the relay resource without load. Before resetting the counter (for 256 operations before the end of the relay resource), the module issues an interrupt request with the sign "End of relay resource", while the module provides the ability to receive information: relay number, balance by the number of operations. The module provides the ability to programmatically read the number of trips for each relay.
The module provides the ability to open the contacts of all relays by one command from the PC.

Specifications

Number of channels 50x8 (50 inputs - 8 outputs)	Switching power 10 W
Switching voltage from 1 mV to 150 V	Switching current from 1 mA to 100 mA
The level of noise voltage induced on any channel loaded with an equivalent load of 50 Ohms must not exceed: <ul style="list-style-type: none">• -65 dB for a frequency of 100 kHz;• -50 dB for 1 MHz frequency;• -35 dB for 10 MHz frequency;• 10 MHz bandwidth.	Contact closing/opening time 0.5 / 0.5 ms
	The module provides the possibility of functional verification using an external cable by means of the module itself in the "OK disabled" mode