

MAIN FEATURES

This board is used when it is necessary to select a signal among a maximum of 3 inputs.

The EMD board accepts input signals coming from a maximum of 3 encoders and provides as output the signals of one of these encoders.

Output signals are selected connecting properly the two inputs, in1 and in2, according to the operating diagram (see next page).

EMD and encoder electronics must be indicated in the ordering code and the electrical interfaces of the connected encoders must be all identical. Moreover the EMD provides 3 contacts normally open that close when respective input is selected.

The following example is needful to understand better the use of this board.

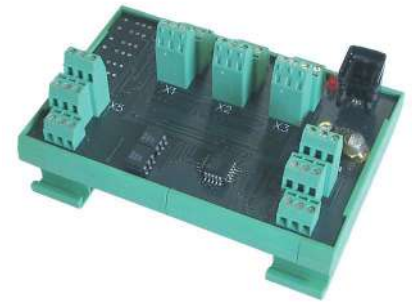
We would like to read the signals of 3 encoders (or other devices with similar features) in sequential way. Encoders must have same output electronics, for example 5 V DC line driver. The instrument for data acquisition, on the contrary, has a different electrical interface, for example 24 V DC push-pull. In this case the EMD board will perform the selection function among the connected encoders and the matching of the electrical interfaces.

The ordering code will be:

EMD5L8/24P, where EMD5L indicates that inputs are 5 V DC line driver, EMD5L8/24P indicates that output is 8÷24 V DC push-pull. EMD power supply must be the highest value among requested voltages: in this case 8÷24 V DC. The encoder selection is carried out through a logic type signal at in1 and in2 inputs on the terminal board.

Logic level "1" is obtained connecting a voltage included between 5 and 24 V DC to above mentioned inputs.

Logic level "0", instead, is correctly interpreted if voltage is included between 0 and 3 V DC. The combination of logic levels at in1 and in2 inputs sets outputs to 4 different states, as described in the table in the following page.



ORDERING CODE

	in		out		
	5	L	8/24	P	.XXX
SERIES	signal selector EMD				
INPUT VOLTAGE X1 / X2 / X3 CONNECTOR	5 V DC 5 8 ... 24 V DC 8/24				
INPUT ELECTRONICS X1 / X2 / X3 CONNECTOR	(with input voltage 8/24) push-pull P line driver L				
OUTPUT VOLTAGE X4 CONNECTOR	5 V DC 5 8 ... 24 V DC 8/24				
OUTPUT ELECTRONICS X4 CONNECTOR	push-pull P line driver L				
VARIANT	custom version XXX add 726 as variant for relay model				

