



EMB ADAPTER SIGNAL SPLITTER







Electrical specifications INPUT and OUTPUT 5 Vdc / 8÷24 Vdc voltage Input current 70 mA with no output load Max output current per channel 20 mA per LINE DRIVER 40 mA PUSH PULL Max input current per channel Frequency response 100 KHz 0.12 (Vx1+Vx2+...Vxn+Vx4) Current absorbed in Vx4 maximum operating conditions (A) Vx1= input voltage on X1 Vx2,...Vxn= output voltage on X2,...Xn Vx4= Board input voltage Operating $0^{\circ} \div +50^{\circ}C$ temperature Fixing on frame . 46277 / 3 GUIDE (OMEGA)



The EMB board

This board is used when it is necessay to adapt the encoder electronic characteristics to the controller one

Main functions of the EMB are output signal splitting and adaption of output stages.

For instance, it happens to have an encoder with a 5 Vdc output and a control accepting only 24 Vdc data. It may also happen to use an encoder connected with a controller at the same voltage, but having different electronics.

It can solve a wide range of problems: check the ordering code in the back page to find further information.

On the board there can be present up to two different voltages and it must be supplied through the X4 connector with the higher voltage used. Moreover, it is possible to obtain up to eight outputs by assembling more than one board reducing drastically wiring by mounting boards in a single support.

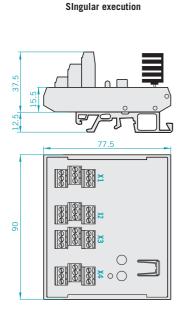
In this case, the ordering code will contain information about all outputs. For example, a board with a 5 Vdc NPN and eight outputs line drivers at 5 Vdc has the following ordering code EMB5N5L5L5L5L5L5L5L5L5L

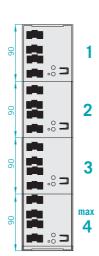
The following may give an example of a typical EMB application: an encoder with 5 Vdc LINE DRIVER output has to be connected to a PUSH-PULL 24 Vdc input and also to an instrument having a LINE DRIVER 5 Vdc input. The board to order has the following

EMB5L24P5L where 5L indicates a 5 Vdc LINE DRIVER input on X1 connector. 24P indicates the 24 Vdc PUSH-PULL output on the X2 connector, and the last 5L indicates the 5 Vdc LINE DRIVER output on the X3 connector.

The input voltage of this board is the 24 Vdc one, because it is the highest used, and it will be supplied from the X4 connector.

Overall dimension

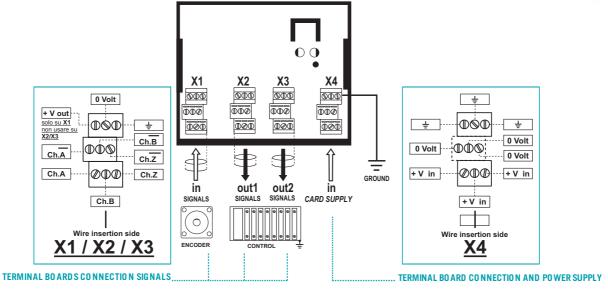




Multiple execution

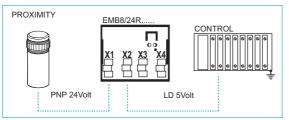
(max 4 modules / 8 out)

Working diagram and terminal board connection

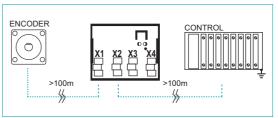


Usage examples

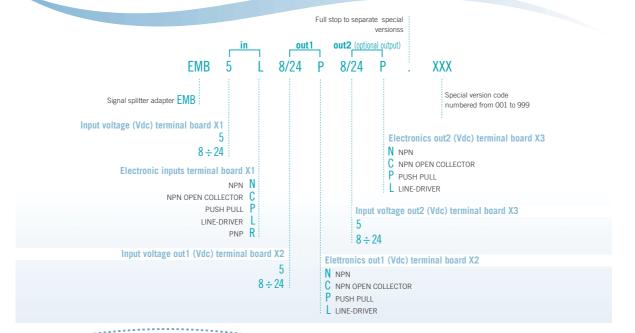








Ordering code





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