



#### H-Bridge / 2, Standard DC motor and LED indicator

##### 7-Channel driver

##### BA12003 TTL / 5V CMOS

Seven channel available, 1B/1C channel inactive.

##### Motors:

Standard DC motor #1 (2 wires) connected to /3C.  
Unidirectional rotation.  
Identical connection for 7-Channel ULN2xxx series.

##### Connection:

If your system development board does not have 2x5 input pin head male connector, use the prototype panel to build adapter connector.

##### Jumpers configuration JMP2 i JMP3:

JMP2 - LED2 active  
JMP3 - Standard DC motor active

##### 2x Pull Up 10K resistors

Use the prototype panel to add 2 additional resistors for each of the two Darlington transistor channels.

**Remarks:** The examples relate to the DC motors rated at 12V and  $\leq 500\text{mA}$ ,  
LED and resistor values are calculated regarding TTL / 5V CMOS logic families / 12 V.

**Before using, be sure to consult the manufacturer's documentation/specification of DC motors / ULN2xxx / BA12xxx IC circuits.**

MCU - microcontroller unit.

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