micro:bit IO board		
CONNECTOR	**NO.**	**DESCRIPTION**
OUTPUTS	8	8 x light/LED 4 x DC motor **- 600mA per output**
INPUTS	6	5 x analog/digital 1 x digital **- signal up to 3,3V**
I2C	1	1 x connector (SCL, SDA)
5V	1	1 x sensor pow.supply conn.
3,3V	1	1 x sensor pow.supply conn.
BATTERY	1	1 x battery (4,5 - 9V)
POW.SUPPLY	1	1 x universal power adapter (4,5 - 9V)

REMARK:

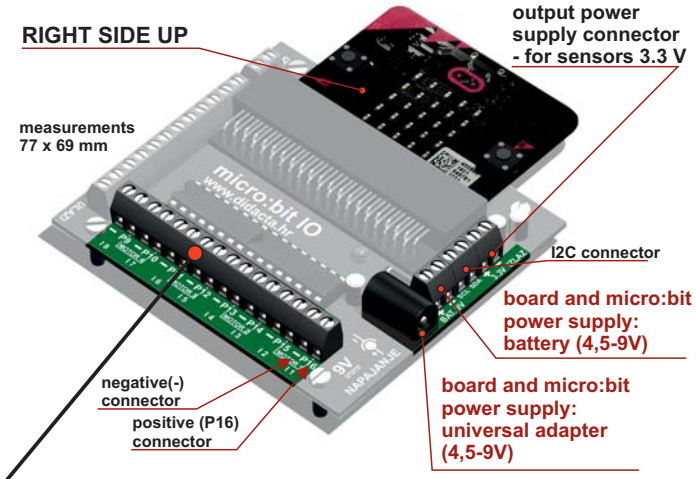
If the "driver" ICs are heating up too much, the power consumers (i.e. motors) need more current than si the allowed maximum per output (600 mA with peak consumption of 1000 mA)

Programming samples made in PYTHON can be found at www.didacta.hr under PROGRAMMING SCHOOL / micro:bit - PYTHON (ŠKOLA PROGRAMIRANJA / micro:bit - PYTHON)

micro:bit IO board

DIDACTA ADVANCE d.o.o.
Čakovec, Croatia
www.didacta.hr

OUTPUTS:



8 x light (lamp or LED with resistor)
4 x DC motor

light / motor WIRING:

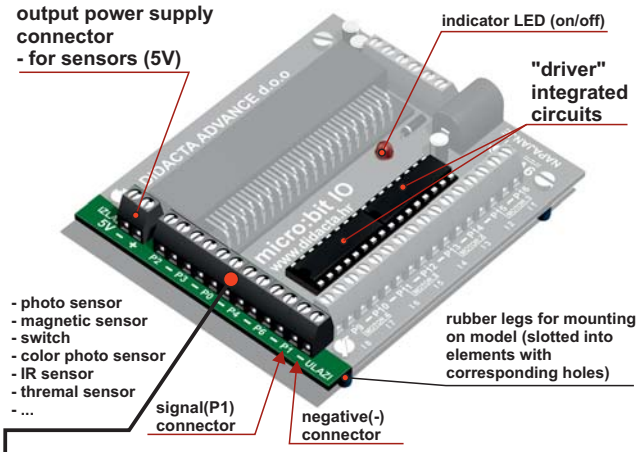
LIGHT: positive and negative connector (P16)
DC MOTOR: positive connector A(P15) and positive connector B(P16)

IMPORTANT:

VOLTAGE ON OUTPUT CONNECTORS IA EQUAL TO THE POWER SUPPLY VOLTAGE(4,5 - 9V).

DO NOT CONNECT OUTPUT CONNECTORS TO POWER SUPPLY

INPUTS:



5 x analog or digital (P0,P1,P2,P3,P4)
1 x digital (P6)

sensor WIRING:

SWITCH, PHOTO, MAGNETIC sensor: negative and signal connector (P1)

SENSOR WITH POWER SUPPLY: power supply wires into OUTPUT 3,3 V or OUTPUT 5V, and signal wire into signal connector (P1-P6)
- **output signal voltage must not exceed 3,3V**

IMPORTANT:

DO NOT CONNECT INPUT CONNECTORS TO POWER SUPPLY