

# THE PICAXE 18 MICROCONTROLLER AND TRANSDUCER MODULE

V.Ryan © 2000 - 2010

On behalf of The World Association of Technology Teachers

## W.A.T.T.



World Association of Technology Teachers

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1. Why do solar motors work directly from the outputs of a PICAXE-18 microcontroller IC, without the need for a ULN2803A driver chip?

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2. Why is a transducer module sometimes required, when connecting higher voltage outputs, such as a 6 volt motor or solenoid?

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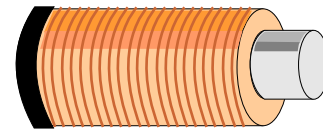
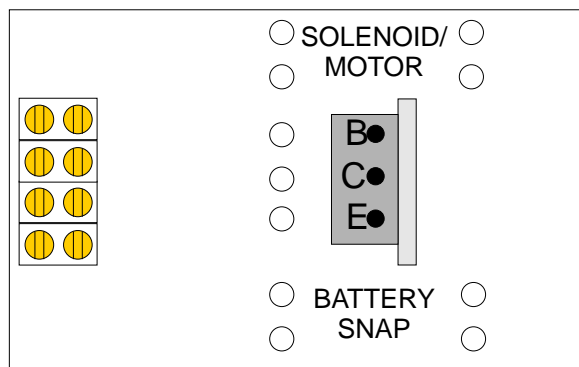
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3. What type of transistor is often used in a transducer circuit?

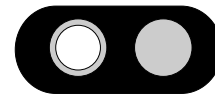
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4. An incomplete sketch of a transducer driver PCB and components, is drawn below.

Add the wire connections, to complete the sketch. You will need red, black and yellow coloured pencils.



SOLENOID



BATTERY SNAP

5. An incomplete sketch of a transducer driver and components, is drawn below. This circuit is composed of wires, components and plastic connectors (no PCB required).

Add the wire connections, to complete the sketch. You will need red, black and yellow coloured pencils.

