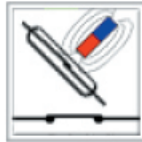


# FastTrack Subsystems



**Light Sensor**  
Detects when light levels get brighter

INPUT



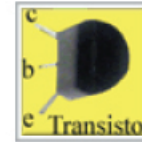
**Reed Switch**  
Detects when a magnet moves closer

INPUT



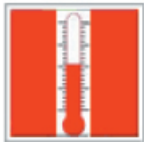
**Smart Wire**  
Shortens to 80% of its length when it heats to 70°C.

OUTPUT



**NPN Transistor**  
Low Power Electronic Switch to enable current to flow through the output(s)

PROCESS



**Heat Sensor**  
Detects when it gets warmer

INPUT



**Reed Switch**  
Detects when a magnet moves away

INPUT



**Low Voltage Motor**  
Produces a rotating movement

OUTPUT



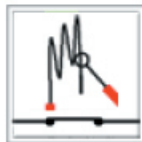
**Darlington Pair**  
Sensitive Electronic Switch to enable higher currents to flow through the output(s).

PROCESS



**Water Sensor**  
Detects water or moisture levels

INPUT



**S.P.S.T. Switch**  
Triggers when its contacts "close" or come together

INPUT



**D.P.D.T. Relay**  
Controls separate higher current/ voltage circuits.

OUTPUT



**Thyristor (SCR)**  
Electronic Latch remaining switched on when triggered

PROCESS



**Touch Sensor**  
Detects the touch of a finger

INPUT



**S.P.S.T. Switch**  
Triggers when its contacts "open" or come apart

INPUT



**Fixed Tone Buzzer**  
Produces a clear, constant audible tone

OUTPUT



**PIC Programmable Microcontroller**  
Re-Programmable Microcontroller powered by 9 volt supply

PROCESS



**Dark Sensor**  
Detects when light levels get darker

INPUT



**Membrane Switch**  
Detects when pressure is applied

INPUT



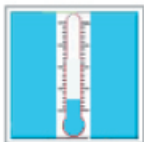
**Lamp/Bulb**  
Traditional light source to illuminate

OUTPUT



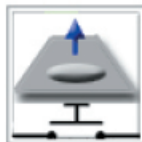
**Darlington Pair + Capacitor / Resistor**  
Delaying the switching on of an output

PROCESS



**Cold Sensor**  
Detects when it gets colder

INPUT



**Membrane Switch**  
Detects when pressure is released

INPUT



**Standard L.E.D.**  
Produces a visual indicating or warning signal

OUTPUT



**Transistor + Capacitor**  
Temporary Latch holding an output on for a short time

PROCESS



**Position Sensor**  
Detects a mechanical turning movement

INPUT



**Tilt Switch**  
Triggers when it is tilted over at an angle

INPUT



**Flashing L.E.D.**  
Produces a slow flashing indicator

OUTPUT



**Darlington Pair + Capacitor**  
Temporary Latch holding an output on for a longer time

PROCESS

Contact details for advice, sales and enquiries:

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