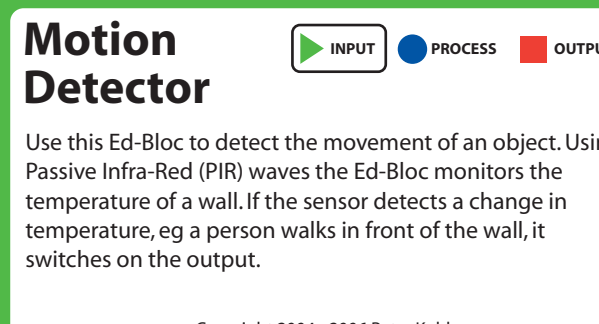
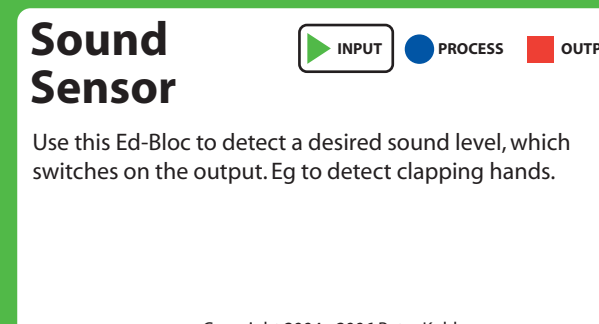
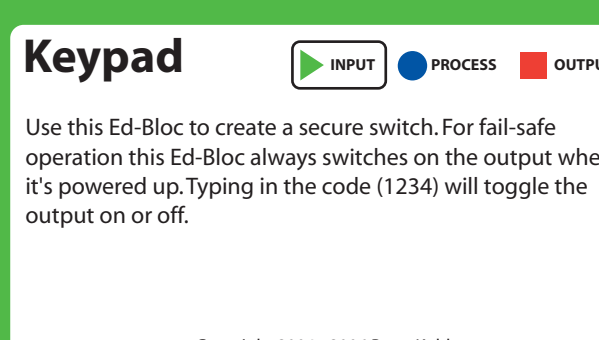
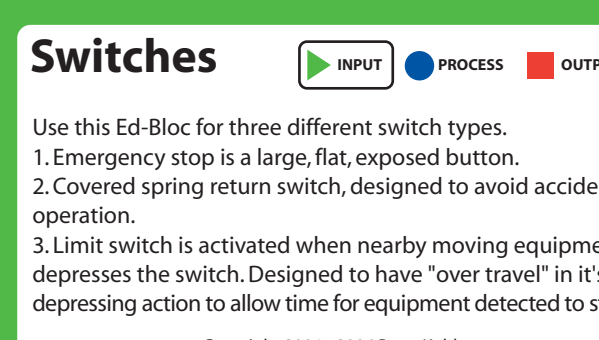
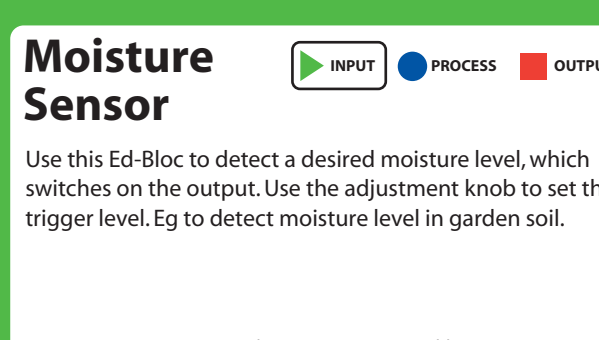
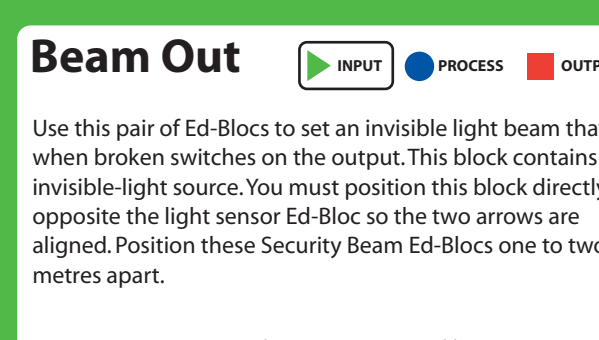
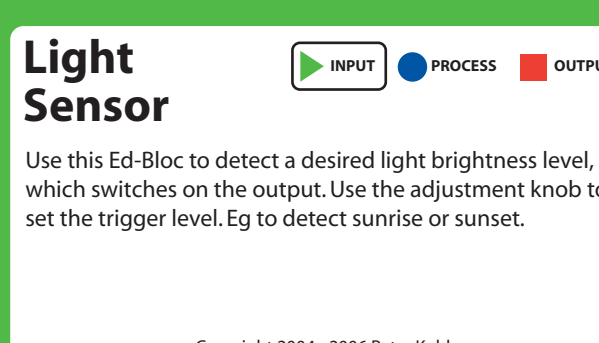
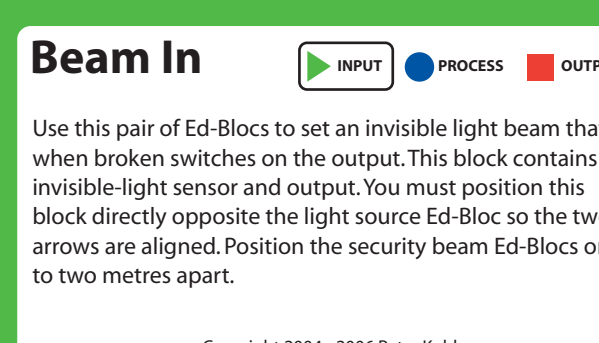



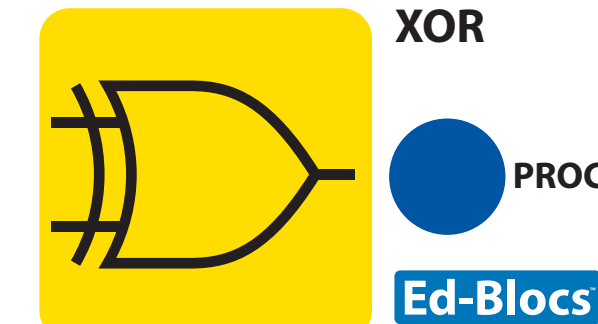


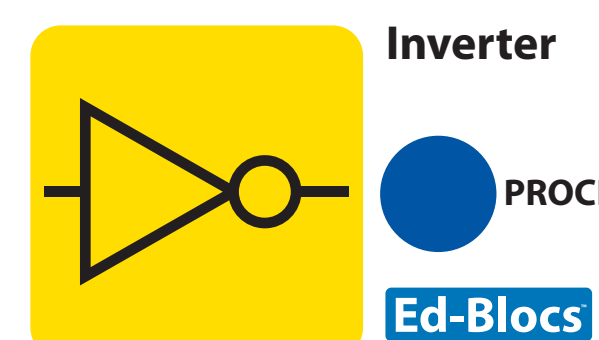
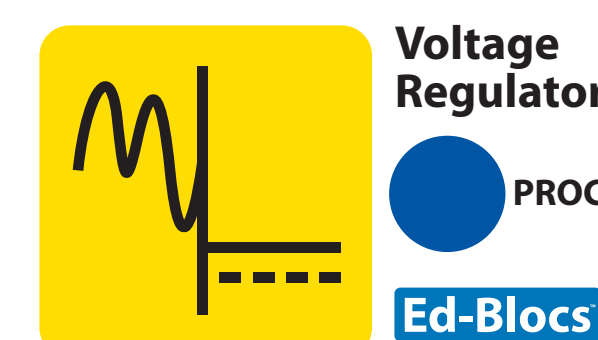


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 Sound Sensor INPUT Ed-Blocs TOOLS FOR LEARNING	 Motion Detector INPUT Ed-Blocs TOOLS FOR LEARNING
 Switches INPUT Ed-Blocs TOOLS FOR LEARNING	 Keypad INPUT Ed-Blocs TOOLS FOR LEARNING
 Beam Out INPUT Ed-Blocs TOOLS FOR LEARNING	 Moisture Sensor INPUT Ed-Blocs TOOLS FOR LEARNING
 Beam In INPUT Ed-Blocs TOOLS FOR LEARNING	 Light Sensor INPUT Ed-Blocs TOOLS FOR LEARNING

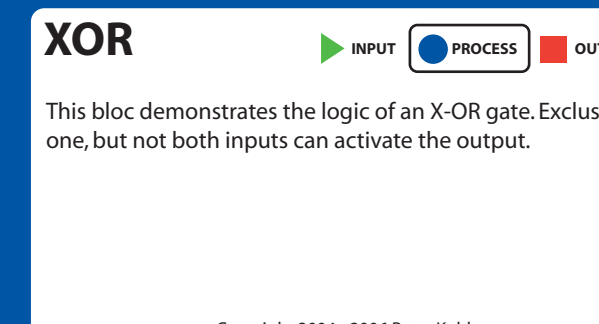
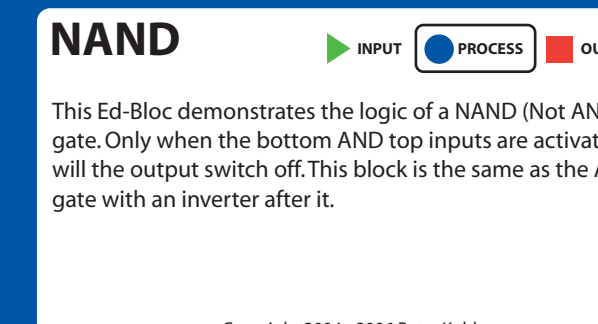
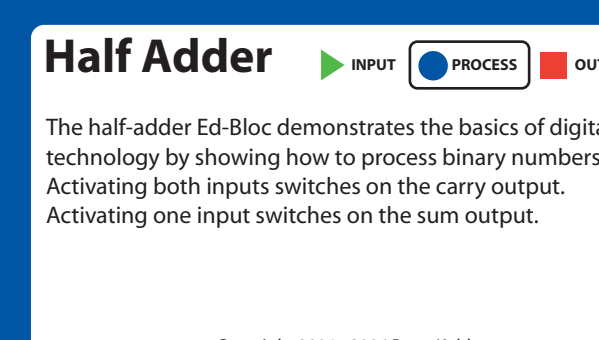
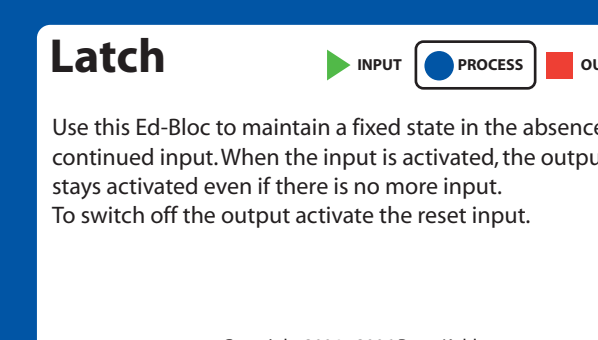
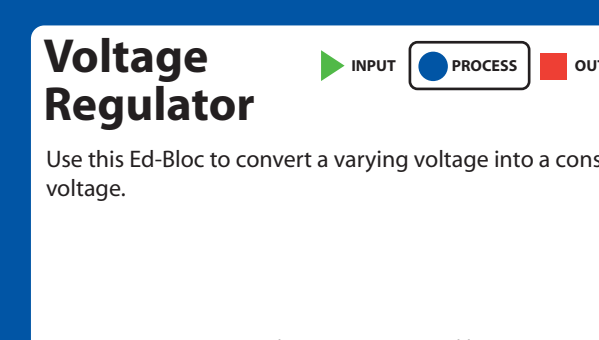
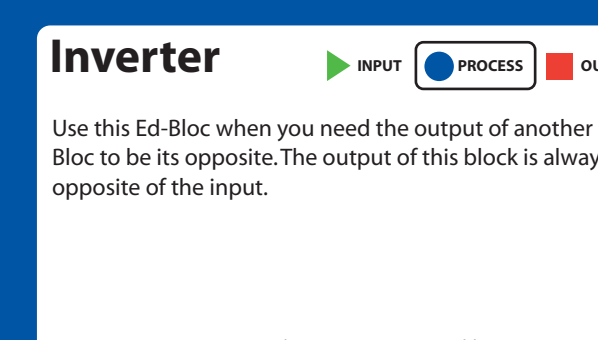
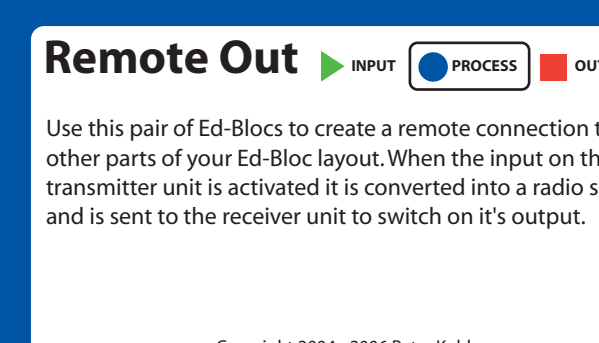
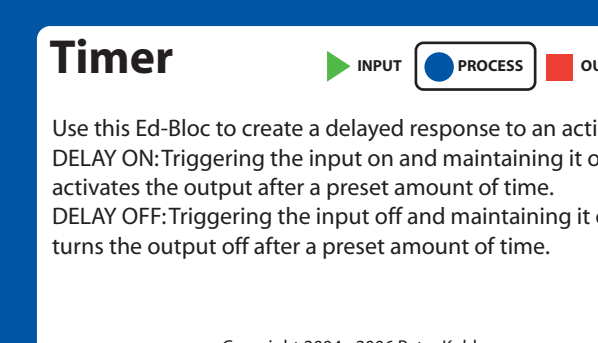
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 Motion Detector INPUT PROCESS OUTPUT Use this Ed-Bloc to detect the movement of an object. Using Passive Infra-Red (PIR) waves the Ed-Bloc monitors the temperature of a wall. If the sensor detects a change in temperature as a person walks in front of the wall, it switches on the output. Copyright 2004 - 2006 Peter Kuba	 Sound Sensor INPUT PROCESS OUTPUT Use this Ed-Bloc to detect a desired sound level, which switches on the output. Eg to detect clapping hands. Copyright 2004 - 2006 Peter Kuba
 Keypad INPUT PROCESS OUTPUT Use this Ed-Bloc to create a secure switch. For fail-safe operation this Ed-Bloc always switches on the output when it's powered up. Typing in the code (1234) will toggle the output on or off. Copyright 2004 - 2006 Peter Kuba	 Switches INPUT PROCESS OUTPUT Use this Ed-Bloc for three different switch types. 1. Emergency stop is a large, flat, exposed button. 2. Covered spring return switch, designed to avoid accidental operation. 3. Limit switch is activated when nearby moving equipment depresses the switch. Designed to have "over travel" in its depressing action to allow time for equipment detected to stop. Copyright 2004 - 2006 Peter Kuba
 Moisture Sensor INPUT PROCESS OUTPUT Use this Ed-Bloc to detect a desired moisture level, which switches on the output. Use the adjustment knob to set the trigger level. Eg to detect moisture level in garden soil. Copyright 2004 - 2006 Peter Kuba	 Beam Out INPUT PROCESS OUTPUT Use this pair of Ed-Blocs to set an invisible light beam that when broken switches on the output. This block contains the invisible light source. You must position this block directly opposite the light sensor Ed-Bloc so the two arrows are aligned. Position these Security Beam Ed-Blocs one to two metres apart. Copyright 2004 - 2006 Peter Kuba
 Light Sensor INPUT PROCESS OUTPUT Use this Ed-Bloc to detect a desired light brightness level, which switches on the output. Use the adjustment knob to set the trigger level. Eg to detect sunrise or sunset. Copyright 2004 - 2006 Peter Kuba	 Beam In INPUT PROCESS OUTPUT Use this pair of Ed-Blocs to set an invisible light beam that when broken switches on the output. This block contains the invisible light sensor and output. You must position this block directly opposite the light source Ed-Bloc so the two arrows are aligned. Position the security beam Ed-Blocs one to two metres apart. Copyright 2004 - 2006 Peter Kuba

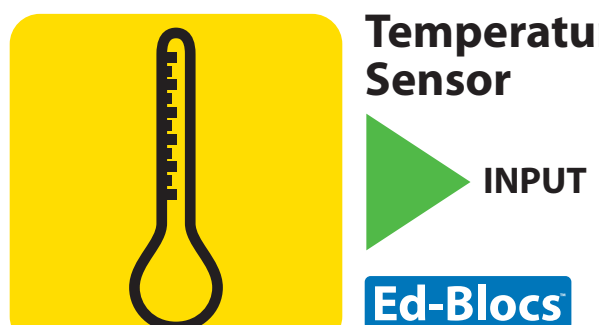

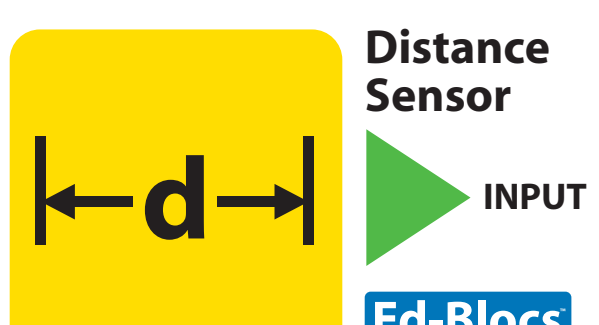
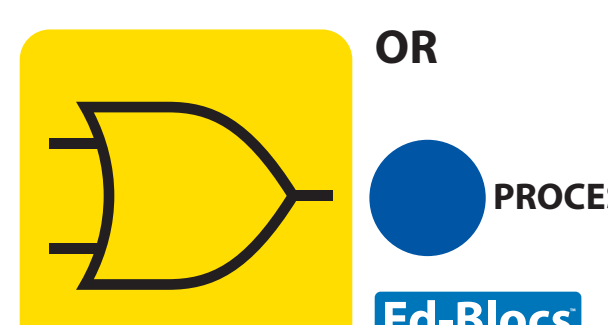


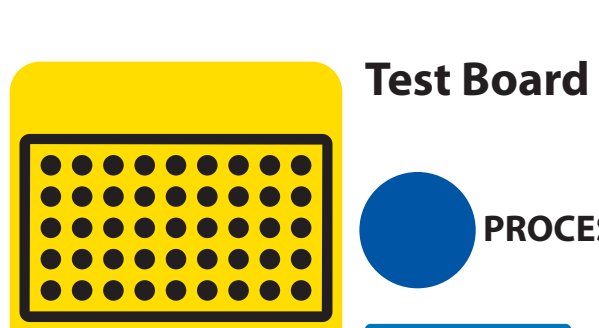

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 NAND PROCESS Ed-Blocs TOOLS FOR LEARNING	 XOR PROCESS Ed-Blocs TOOLS FOR LEARNING
 Latch PROCESS Ed-Blocs TOOLS FOR LEARNING	 Half Adder PROCESS Ed-Blocs TOOLS FOR LEARNING
 Inverter PROCESS Ed-Blocs TOOLS FOR LEARNING	 Voltage Regulator PROCESS Ed-Blocs TOOLS FOR LEARNING
 Timer PROCESS Ed-Blocs TOOLS FOR LEARNING	 Remote Out PROCESS Ed-Blocs TOOLS FOR LEARNING

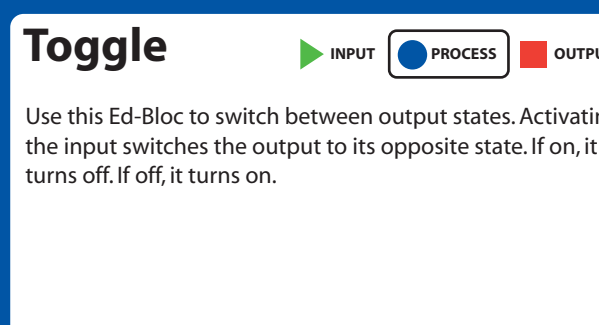
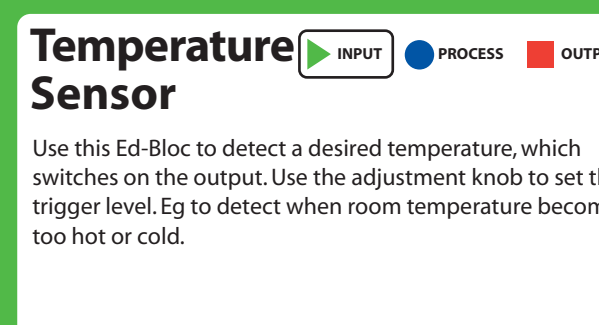
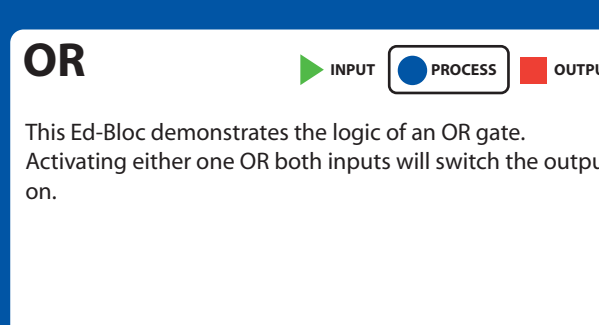
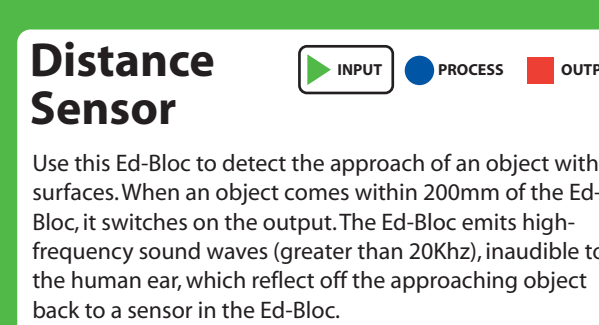
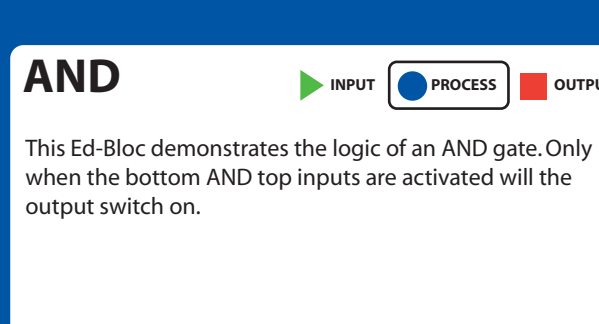
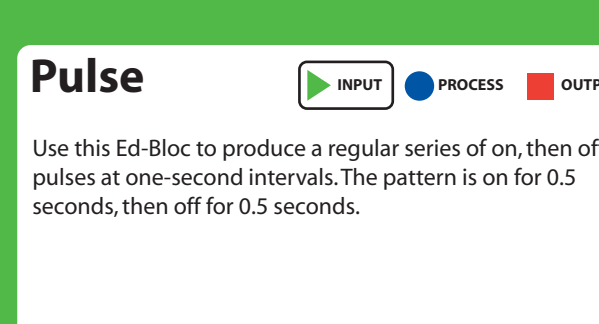
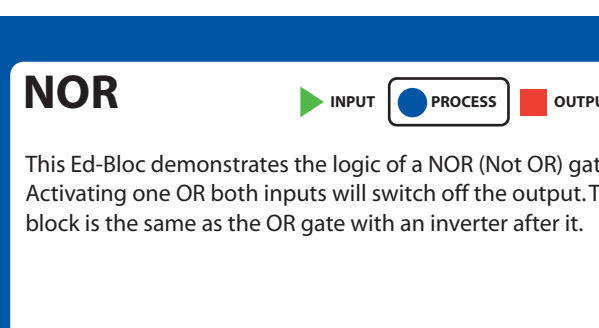
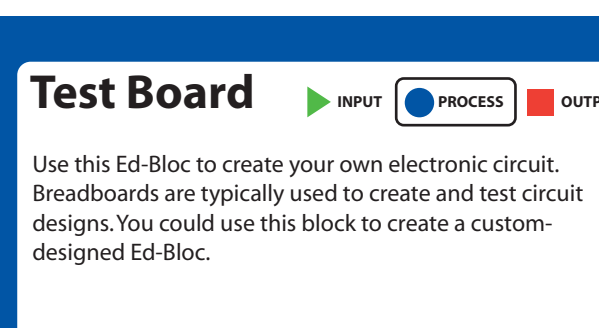
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 XOR INPUT PROCESS OUTPUT This Ed-Bloc demonstrates the logic of an XOR gate. Exclusively one, but not both inputs can activate the output. Copyright 2004 - 2006 Peter Kuba	 NAND INPUT PROCESS OUTPUT This Ed-Bloc demonstrates the logic of a NAND (Not AND) gate. Only when the bottom AND inputs are activated will the output switch off. This block is the same as the AND gate with an inverter after it. Copyright 2004 - 2006 Peter Kuba
 Half Adder INPUT PROCESS OUTPUT The half-adder Ed-Bloc demonstrates the basics of digital technology by showing how to process binary numbers. Activating both inputs switches on the carry output. Activating one input switches on the sum output. Copyright 2004 - 2006 Peter Kuba	 Latch INPUT PROCESS OUTPUT Use this Ed-Bloc to maintain a fixed state in the absence of continued input. When the input is activated the output stays activated even if there is no more input. To switch off the output activate the reset input. Copyright 2004 - 2006 Peter Kuba
 Voltage Regulator INPUT PROCESS OUTPUT Use this Ed-Bloc to convert a varying voltage into a constant voltage. Copyright 2004 - 2006 Peter Kuba	 Inverter INPUT PROCESS OUTPUT Use this Ed-Bloc when you need the output of another Ed-Bloc to be its opposite. The output of this block is always the opposite of the input. Copyright 2004 - 2006 Peter Kuba
 Remote Out INPUT PROCESS OUTPUT Use this pair of Ed-Blocs to create a remote connection to other parts of your Ed-Bloc layout. When the input on the transmitter unit is activated it is converted into a radio signal and is sent to the receiver unit to switch on its output. Copyright 2004 - 2006 Peter Kuba	 Timer INPUT PROCESS OUTPUT Use this Ed-Bloc to create a delayed response to an action. DELAY ON: Triggering the input on and maintaining it on, activates the output after a preset amount of time. DELAY OFF: Triggering the input off and maintaining it off, turns the output off after a preset amount of time. Copyright 2004 - 2006 Peter Kuba

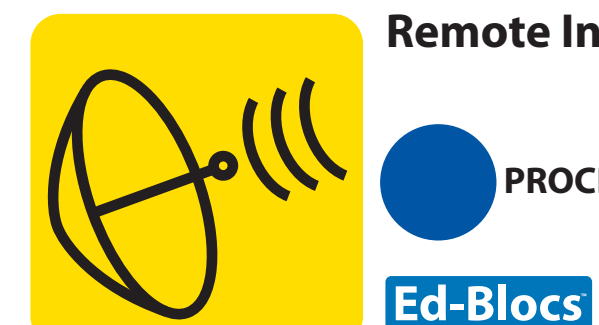





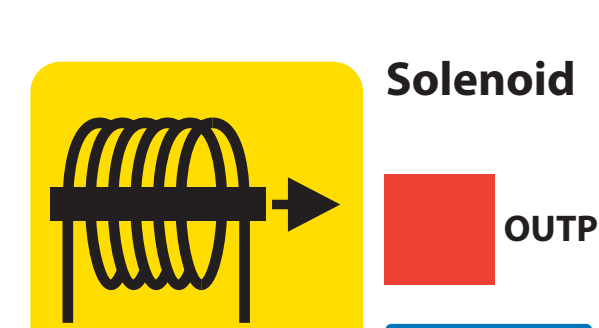

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 Temperature Sensor INPUT Ed-Blocs TOOLS FOR LEARNING	 Toggle PROCESS Ed-Blocs TOOLS FOR LEARNING
 Distance Sensor INPUT Ed-Blocs TOOLS FOR LEARNING	 OR PROCESS Ed-Blocs TOOLS FOR LEARNING
 Pulse INPUT Ed-Blocs TOOLS FOR LEARNING	 AND PROCESS Ed-Blocs TOOLS FOR LEARNING
 Test Board PROCESS Ed-Blocs TOOLS FOR LEARNING	 NOR PROCESS Ed-Blocs TOOLS FOR LEARNING

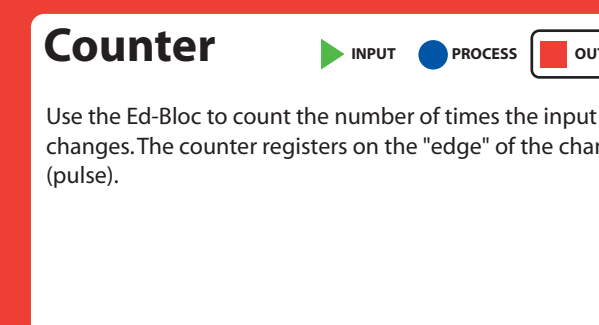
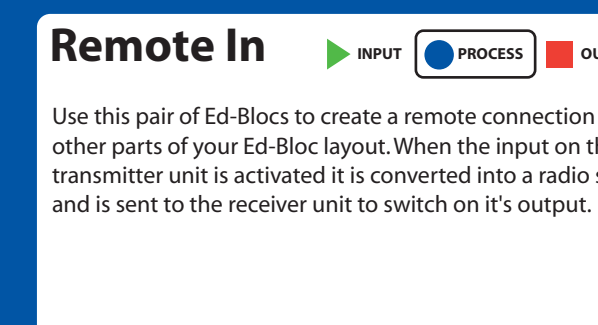
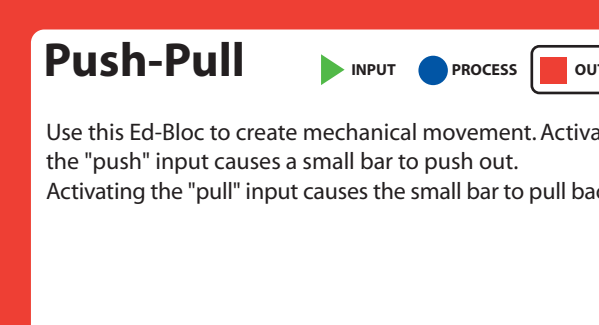
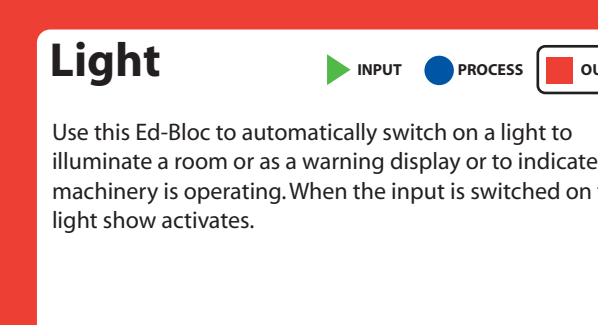
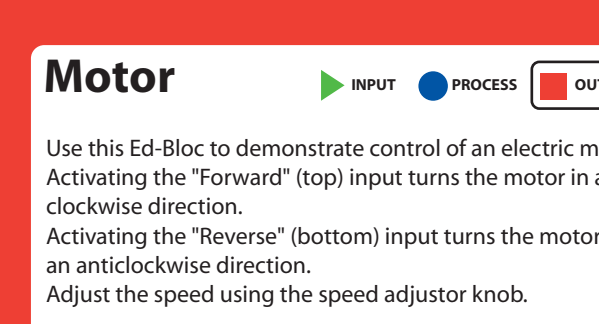
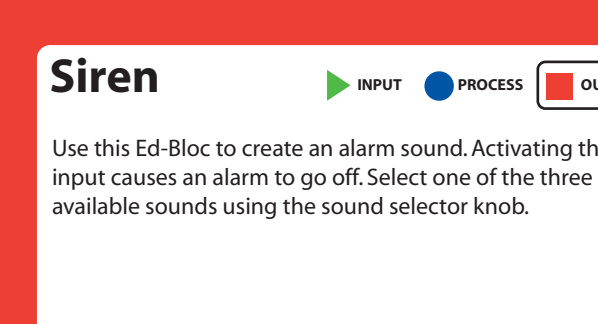

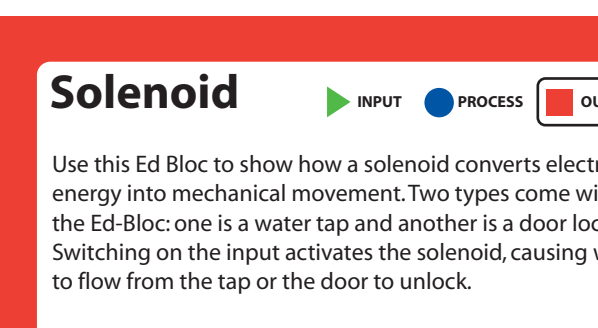
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 Toggle INPUT PROCESS OUTPUT Use this Ed-Bloc to switch between output states. Activating the input switches the output to its opposite state. If on, it turns off. If off, it turns on. Copyright 2004 - 2006 Peter Kuba	 Temperature Sensor INPUT PROCESS OUTPUT Use this Ed-Bloc to detect a desired temperature, which switches on the output. Use the adjustment knob to set the trigger level. Eg to detect when room temperature becomes too hot or cold. Copyright 2004 - 2006 Peter Kuba
 OR INPUT PROCESS OUTPUT This Ed-Bloc demonstrates the logic of an OR gate. Activating either one OR both inputs will switch the output on. Copyright 2004 - 2006 Peter Kuba	 Distance Sensor INPUT PROCESS OUTPUT Use this Ed-Bloc to detect the approach of an object with flat surfaces. When an object comes within 200mm of the Ed-Bloc, it switches on the output. The Ed-Bloc emits high-frequency sound waves (greater than 20KHz), inaudible to the human ear, which reflect off the approaching object back to a sensor in the Ed-Bloc. Copyright 2004 - 2006 Peter Kuba
 AND INPUT PROCESS OUTPUT This Ed-Bloc demonstrates the logic of an AND gate. Only when the bottom AND top inputs are activated will the output switch on. Copyright 2004 - 2006 Peter Kuba	 Pulse INPUT PROCESS OUTPUT Use this Ed-Bloc to produce a regular series of on, then off pulses at one-second intervals. The pattern is on for 0.5 seconds, then off for 0.5 seconds. Copyright 2004 - 2006 Peter Kuba
 NOR INPUT PROCESS OUTPUT This Ed-Bloc demonstrates the logic of a NOR (Not OR) gate. Activating one OR both inputs will switch off the output. This block is the same as the OR gate with an inverter after it. Copyright 2004 - 2006 Peter Kuba	 Test Board INPUT PROCESS OUTPUT Use this Ed-Bloc to create your own electronic circuit. Breadboards are typically used to create and test circuit designs. You could use this block to create a custom-designed Ed-Bloc. Copyright 2004 - 2006 Peter Kuba

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 Remote In PROCESS Ed-Blocs TOOLS FOR LEARNING	 Counter OUTPUT Ed-Blocs TOOLS FOR LEARNING
 Light OUTPUT Ed-Blocs TOOLS FOR LEARNING	 Push-Pull OUTPUT Ed-Blocs TOOLS FOR LEARNING
 Siren OUTPUT Ed-Blocs TOOLS FOR LEARNING	 Motor OUTPUT Ed-Blocs TOOLS FOR LEARNING
 Solenoid OUTPUT Ed-Blocs TOOLS FOR LEARNING	 Recorder OUTPUT Ed-Blocs TOOLS FOR LEARNING

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 Counter INPUT PROCESS OUTPUT Use the Ed-Bloc to count the number of times the input changes. The counter registers on the "edge" of the change (pulse). Copyright 2004 - 2006 Peter Kuba	 Remote In INPUT PROCESS OUTPUT Use this pair of Ed-Blocs to create a remote connection to other parts of your Ed-Bloc layout. When the input on the transmitter unit is activated it is converted into a radio signal and is sent to the receiver unit to switch on its output. Copyright 2004 - 2006 Peter Kuba
 Push-Pull INPUT PROCESS OUTPUT Use this Ed-Bloc to create mechanical movement. Activating the "push" input causes a small bar to push out. Activating the "pull" input causes the small bar to pull back in. Copyright 2004 - 2006 Peter Kuba	 Light INPUT PROCESS OUTPUT Use this Ed-Bloc to automatically switch on a light to illuminate a room or as a warning display or to indicate machinery is operating. When the input is switched on the light source activates. Copyright 2004 - 2006 Peter Kuba
 Motor INPUT PROCESS OUTPUT Use this Ed-Bloc to demonstrate control of an electric motor. Activating the "forward" (top) input turns the motor in a clockwise direction. Activating the "reverse" (bottom) input turns the motor in an anticlockwise direction. Adjust the speed using the speed adjuster knob. Copyright 2004 - 2006 Peter Kuba	 Siren INPUT PROCESS OUTPUT Use this Ed-Bloc to create an alarm sound. Activating the input causes an alarm to go off. Select one of the three available sounds using the sound selector knob. Copyright 2004 - 2006 Peter Kuba
 Recorder INPUT PROCESS OUTPUT Use this Ed-Bloc to record messages or sounds and play them back. While the "record" input is activated the block will make a recording. Activating the "play" input replays the recording. Copyright 2004 - 2006 Peter Kuba	 Solenoid INPUT PROCESS OUTPUT Use this Ed-Bloc to show how a solenoid converts electrical energy into mechanical movement. Two types come with the Ed-Bloc: one is a water tap and another is a door lock. Switching on the input activates the solenoid, causing water to flow from the tap or the door to unlock. Copyright 2004 - 2006 Peter Kuba