



# APPLICATION NOTE

AN-52

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## ES240-110 Standard operation modes

### Basic Functionality

This note describes the basic operation of the ES240-110 device in standard mode

## FIELD APPLICATIONS

The standard EASYswitch can be creatively applied to many field applications.

It is self powered and requires only a volts free contact closure to operate and may also be triggered by an open collector circuit.

It can be controlled over kilometres of signal wire from the commonly used control equipment, or a simple switch.

In industry the EASYswitch can be operated by sensors like thermostats to switch cooling fans, pressure switches for small pumps, photocells etc.

The ES240-110 is fully compliant to Australian and International Standards for Electrical Safety Requirements, is C-tick approved, ROHS certified, and CE mark ready for use in global electrical grids.

### SELECT MAINS INPUT POWER SUPPLY

*With power disconnected remove the lid by unfastening the 4 corner screws*




**240 volt operation**  
Fit **both** links as shown at left

**110 volt operation**  
Fit **one only** link as shown at right



**Strike out on the label the voltage description NOT SELECTED.**

## SELECT POWER OUPUT TYPE




POWER OUPUT  
Normally Open (NO)  
Normally Closed (NC)  
Selected by internal jumper

<b>CONTROL INPUT</b>		<b>POWER OUT</b>			
		<b>NO</b>	<b>NC</b>		
<b>Open</b>		<b>off</b>	<b>on</b>		
<b>Closed</b>		<b>on</b>	<b>off</b>		


**NO operation**

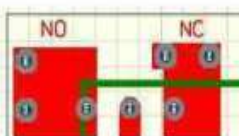
Fit both links as shown at right



**NC operation**

Fit both links as shown at left





Fit output **BROWN** lead to selected output quick connect terminal at left.

**Securely refit lid before connection of mains power**

## CONTROL INPUT ACTIONS

### CONTROL INPUT OPEN

For NO operation the LED must be GREEN (input on) and the load de-energised.  
For NC operation the LED must be RED (active out) and the load energised.

### CONTROL INPUT CLOSED

For NO operation the LED must be RED (active out) and the load energised.  
For NC operation the LED must be GREEN (input on) and the load de-energised.



Attach bell wire, signal wire or similar to the control contacts screw terminals.

Run the control wire to the remote switching location and connect to volts free switch mechanism.

If using an open collector transistor switch, connect the collector to the terminal marked O.C. and the common rail to the terminal marked OV

**Other control input options available on request**