

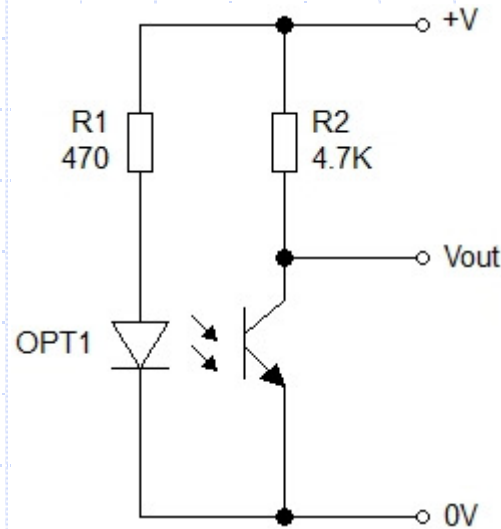
SLOTTED OPTO-SENSOR BLOK

PCB ASSEMBLY INSTRUCTIONS



Circuit Details

The circuit is shown below with a parts list of components.
Check through this list and identify each component.



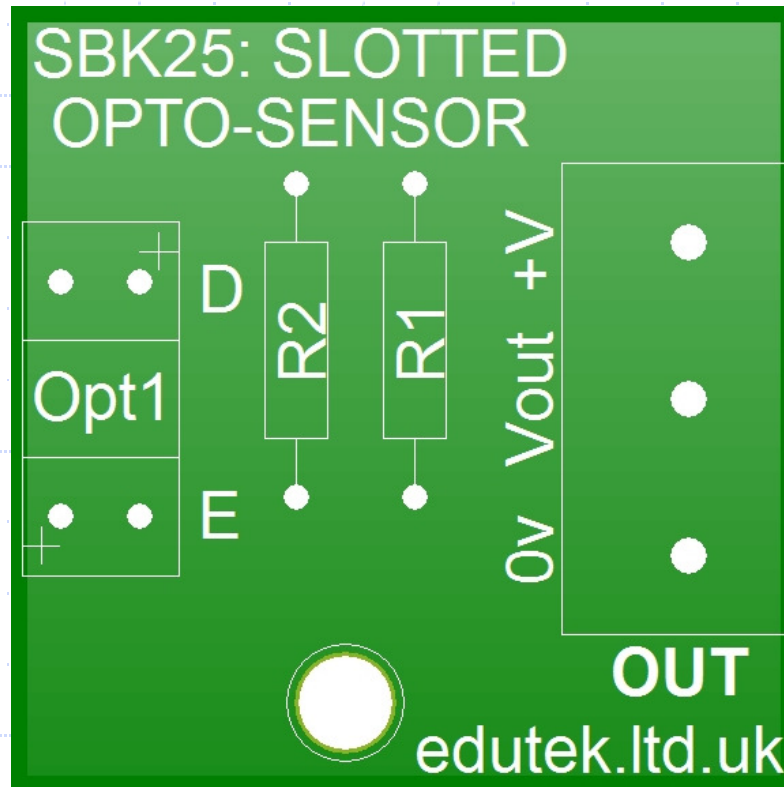
Label	Component Name	No.
R1	470Ω resistor	1
R2	4.7KΩ resistor	1
OPT1	Slotted photo-interrupter	1

Miscellaneous	No.
3 way PCB terminal block	1

ASSEMBLY

Below is the PCB with no components.

The markings show the number and outline of each component.

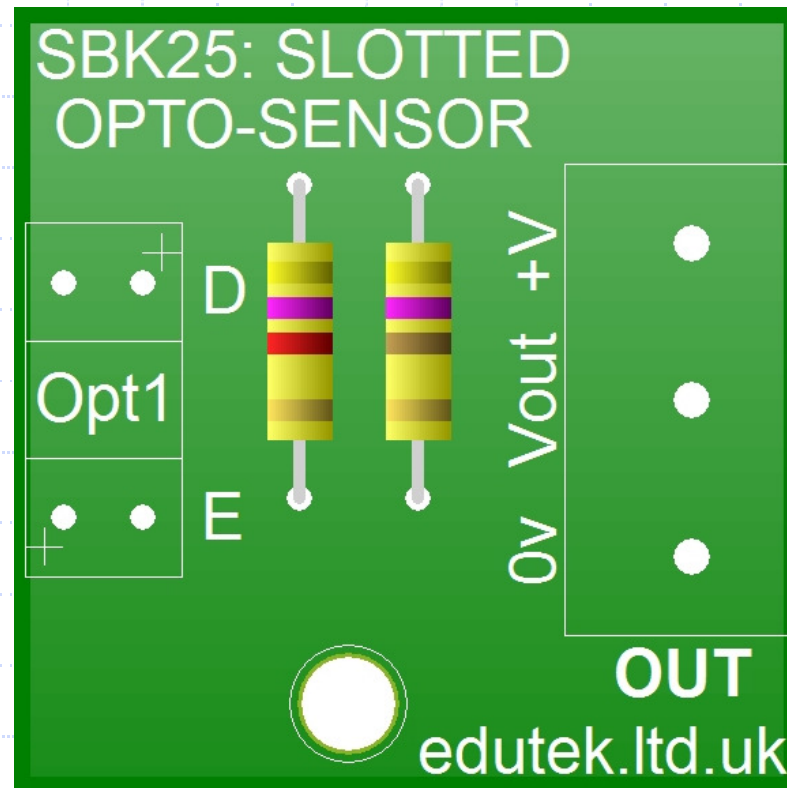
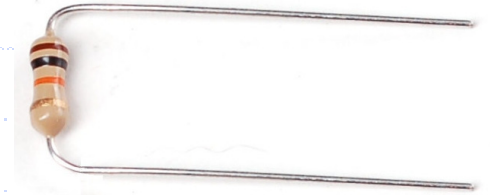


Before starting, check through the following:

- Ensure you have safety goggles and adequate ventilation.
- Use a soldering iron stand with a damp sponge to clean the iron tip regularly.
- Use some small Wire-cutters to remove excess wire and have some snipe -nose pliers.

Resistors

There are 2 resistors. They can be inserted either way round. Bend the legs near to the resistor body at 90 degrees to ease fitting into the PCB.



R1 = 470 Ω , (Yellow, violet, brown, gold)

R2 = 4.7K Ω , (Yellow, violet, red, gold)

Terminal Connector Blocks

There is one 3-way terminal block that fits on the right of the PCB.
Ensure the openings are facing outwards.

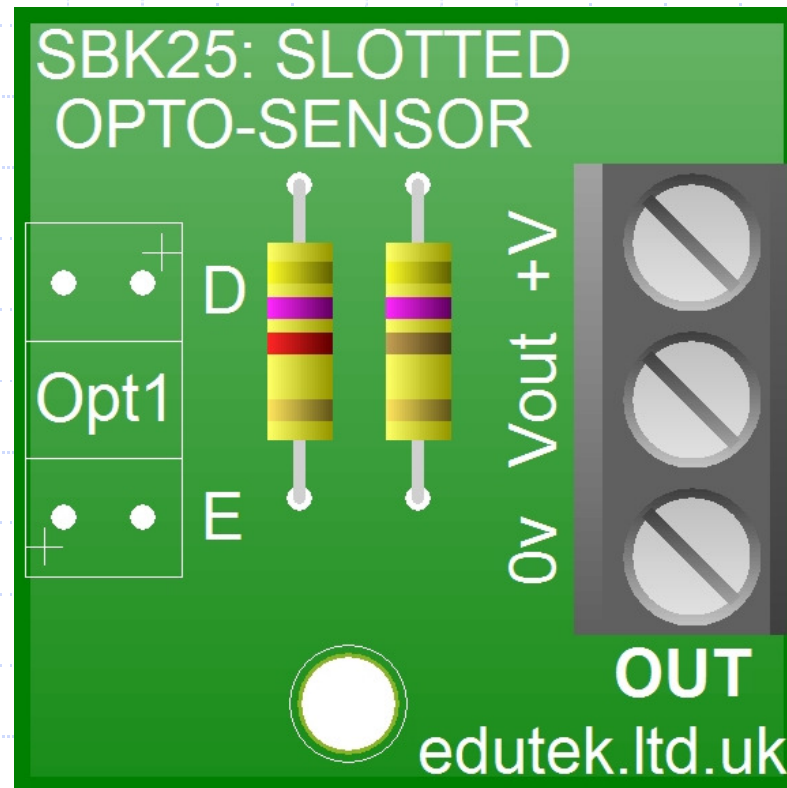
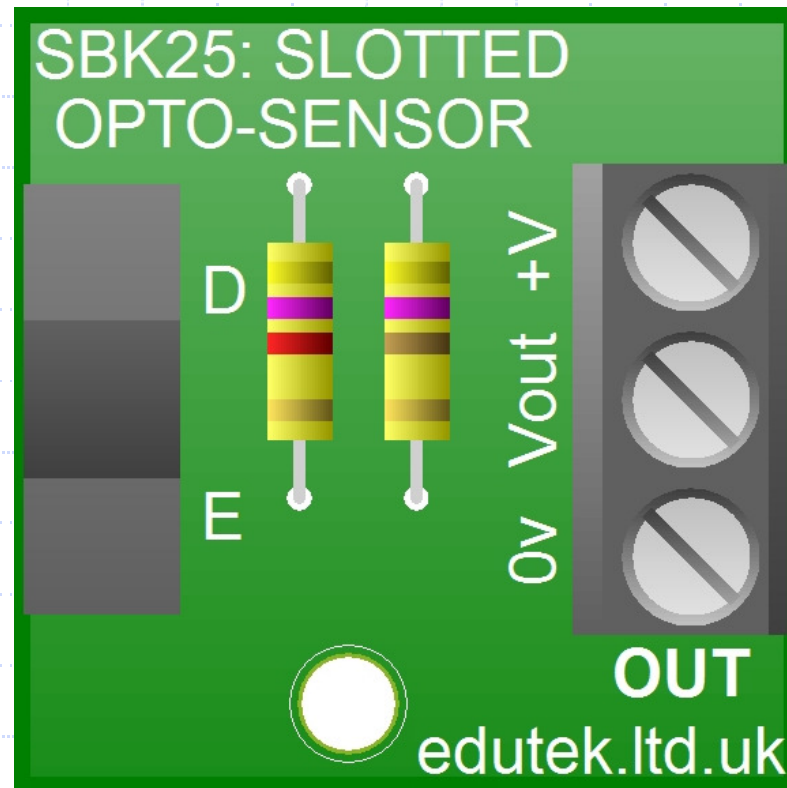
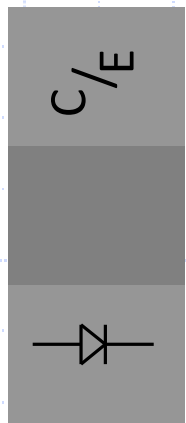
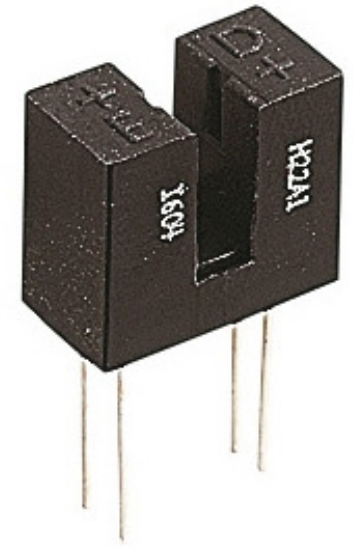


Photo-interrupter

The sensor is an IR slotted photo-interrupter. It must be inserted so that the letters D and E on the interrupter, match up with the markings on the PCB. It is best inserted about halfway. Try to ensure it is level.



The markings on the top may also be as shown above.