

Electronics with the Modular System

Basic Electronic Circuits
Special resistors

Light-dependent resistor LDR

Objective of the experiment

To investigate the resistance variation of an LDR when illuminated.

Setup



Apparatus

1	539 020	Photoresistor LDR 05, BST
1	450 651	Electric torch
2	200 26 381	Mono cells, 1.5 V
2	539 004	Connector blocks BST, 90° angle
2	539 000	Bridging plug, BST
1	531 902	Demo multimeter, active
2	500 644	Safety connection lead, 100 cm
1	301 300	Demonstration experiment frame
1	301 301	Adhesive magnetic board

Carrying out the experiment

- Dim the room slightly and adjust a suitable resistance range on the demo multimeter.
- Light the LDR with the torch. At the same time, observe the resistance variation on the demo multimeter.

Observation

The LDR resistance decreases with increasing light intensity.

Evaluation

An LDR is a light-dependent resistor whose resistance decreases as the light level falling on it increases.