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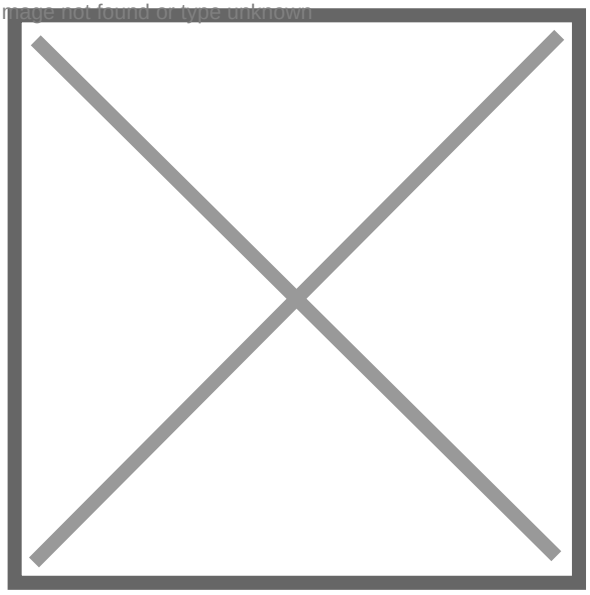
Product Name :

Apparatus for Studying Circuits for Series and Parallel Connections

Product Code :

SCL-359/021

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Description :

Apparatus for Studying Circuits for Series and Parallel Connections (Product Code: SCL-359/021) is a demonstration circuit set used to compare how bulbs and cells behave when connected in series and in parallel, in school physics and general science lessons. Three bulbs, three 3–4.5 V batteries in their boxes and a 0–50 ? rheostat let the teacher rebuild the circuit in front of the class. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM scientific instruments manufacturer in India, at its own factory in Ambala.

Specifications

Parameter	Detail
Batteries	3, rated 3–4.5 V, with corresponding boxes
Bulbs	Three
Connecting wires	6 pairs, 25 cm long, 4 mm cross-section, red and blue
Switch	Power switch for 36 V direct current, 0–3 A
Rheostat	0–50 ?, 1.5 A
Magnetic table	Included
Demonstration table	Experiment demonstration table
Product code	SCL-359/021
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Series and Parallel Circuit Apparatus Used For?

With three bulbs on hand, the difference between the two arrangements is easy to see. In series, the bulbs share the voltage, glow more dimly and all go out if one is removed; in parallel, each bulb receives the full battery voltage, glows brightly and keeps working when a neighbour is disconnected. Connecting the batteries themselves in series shows how cell voltages add, and the switch lets the class open and close the circuit cleanly each time.

The 0–50 ? rheostat adds a variable resistance, so students can dim a bulb gradually and see how resistance limits current. Lay each circuit out clearly so the whole class can follow the connections, use the red and blue leads to keep the two sides of the supply distinct, and disconnect the batteries at the end of the lesson so they do not drain. As a physics demonstration kit for schools in India and abroad, it covers the circuit topics that come before formal Ohm's law work.

What to Specify When Ordering

- The number of sets needed for your classrooms.
- Whether spare bulbs or replacement batteries should be included.
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OEM

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