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Product Name :

Light Gates/Timing Gates

Product Code :

SLE/PHY/230



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Description :

Light Gates/Timing Gates (Product Code: SLE/PHY/230) is a pair of timer gates used to start and stop an electronic timer as a moving object passes, in school and college mechanics experiments. The two gates link to the timer through DIN connections, so the time between them is recorded electronically instead of with a hand-held stopwatch. They are manufactured by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, India, for motion and acceleration practicals.

Key Details

Parameter	Detail
Quantity	Pair of timer gates
Connection	DIN connections
Used with	A timer (ask us to confirm the match with your timer's inputs)
Typical use	Timing moving objects in speed, acceleration and free-fall experiments
Product code	SLE/PHY/230
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab), Ambala, India

What Are Light Gates/Timing Gates Used For?

A light gate senses the moment an object breaks its beam. With two gates set a measured distance apart, the timer records how long a trolley, air-track glider or falling object takes to travel between them, giving an average speed. Passing a card of known length through the gates lets students work out speed at each gate, and from the change in speed, the acceleration.

For reliable readings, mount both gates so the card or object crosses the beam cleanly, measure the gap between them carefully, and run a few trial passes before recording results. Electronic timing removes human reaction time from the measurement, which is why light gates are standard mechanics lab equipment in India for Newton's laws, momentum and free-fall practicals.

What to Specify When Ordering

- The timer you will connect the gates to, so we can confirm the DIN connections suit its inputs.
- The number of pairs needed for your practical groups.
- Whether a timer, track or trolley should be quoted with the gates.

Manufacturer

ScienceLab, the trading name of Jain Scientific Equipments Private Limited in Ambala, Haryana, manufactures these light gates for schools, colleges, polytechnics and dealers in India and international markets. Tell us which timer your lab uses and we will help you put together a matching set of mechanics apparatus. Company information is on the ScienceLab company profile.

Rela

Appa

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