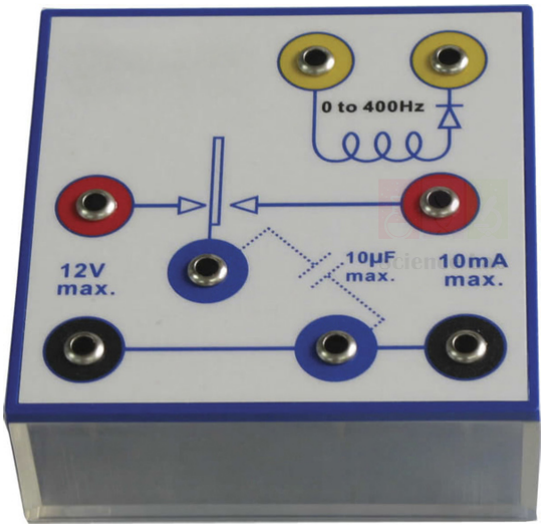
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Product Name :

Reed Relay

Product Code :

SLE/PHY/286



Science Lab
Email : sales@scilabexport.com
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Description :

Reed Relay (Product Code: SLE/PHY/286) is a single pole changeover switching unit used to charge and discharge a capacitor many times per second in school and college physics laboratories. Driven by a power signal generator, it changes over at 5 to 400 Hz, so students can find capacitance from a steady average current. It is supplied by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, India, for physics lab equipment buyers in India and international markets.

Specifications

Parameter	Detail
Type	Single pole changeover reed relay
Switching rate	5 to 400 changeovers per second when driven by a powersignal generator
Coil drive	Coil operates at up to 400 Hz
Maximum contact rating	12 V, 10 mA
Contact protection	Contact current-protected by a 12 ohm resistor
Main application	Repeated charge and discharge of parallel plate capacitors
Product code	SLE/PHY/286
Supplied by	Jain Scientific Equipments Pvt Ltd (ScienceLab), Ambala, India

What Is the Reed Relay Used For?

The reed relay is the switching heart of the classic vibrating-switch method for measuring capacitance. Its changeover contact connects a parallel plate capacitor to a DC supply, then discharges it through a sensitive current meter, once in every cycle of the drive signal. Because the capacitor charges and discharges f times per second, the meter shows a steady average current I = fCV, and students calculate C from their readings.

Changing the frequency on the signal generator, the plate separation or the plate area turns one set-up into a full graph-based investigation, including an estimate of the permittivity of free space. It suits senior secondary and undergraduate electricity practicals. Keep the charging circuit within the 12 V, 10 mA contact rating, start at a low switching rate and raise it gradually while watching for a stable meter reading.

What to Specify When Ordering

- Number of reed relay units, usually one per working group.
- Whether you also need a power signal generator to drive the relay coil.
- Parallel plate capacitor and a sensitive meter for the discharge current.
- Delivery location, so the quotation can include packing and freight.

Supplier

Scien
equip