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Product Name :

Miniature LDR

Product Code :

SLE/PHY/65



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Description :

Miniature LDR (Product Code: SLE/PHY/65) is a 5 mm light dependent resistor used to sense light levels in physics and electronics experiments, from light-meter circuits to automatic night-lamp projects. Its resistance falls from about 1 M? in darkness to 2–4 k? at 100 lux, a change large enough to see clearly on a multimeter during physics practical work. It is supplied by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, India.

Specifications

Parameter	Detail
Type	Light Dependent Resistor (LDR) housed in an epoxy package
Sensing material	Semiconductor whose conductance changes with luminance
Diameter	5 mm
Dark resistance	1 M?
Resistance at 10 lux	10–20 k?
Resistance at 100 lux	2–4 k?
Peak spectral response	540 nm
Max. voltage	150 V peak, AC or DC
Power dissipation	100 mW
Lead pitch	3 mm
Operating temperature	–30 °C to +70 °C
Product code	SLE/PHY/65
Supplied by	Jain Scientific Equipments Pvt Ltd (ScienceLab), Ambala, India

What Is a Miniature LDR Used For?

The simplest investigation connects the LDR to a multimeter on its resistance range and records readings as a lamp is moved closer or a hand shades the sensor; plotting resistance against light level shows how steeply the value falls. In an electronics context the LDR is placed in a potential divider with a fixed resistor, so the changing voltage can switch a transistor, LED or buzzer when it gets dark or bright.

Its peak spectral response at 540 nm lies in the green part of the spectrum, which makes it a good talking point about how sensors and the human eye respond to colour. Keep the power dissipated below 100 mW and the voltage within 150 V peak; in school circuits a series resistor keeps the current low. Solder the leads quickly, or mount the LDR in a component holder to avoid heat damage.

Supplier

Jain S re
LDR
pract can

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