

Answer 2:- An optical sensor is a device is that converts light rays into electronic signals similar to a photo resistor it measures the physical quantity of light and translates it into a form read by the instrument. One of the features of an optical sensor is its ability to measure the changes from one or more light beams. This change is most often based around alternates to the intensity of points optical sensors can work either on the single point method.

Advantage or disadvantages of optical sensors.

Research and developments in the optical sensor field is motivated by the expectation that optical sensors have significant advantages compared to conventional sensor types. In terms of their properties. Below is given list of some of the advantages optical and non optical sensors.

Greater sensitivity

Electrical Passiveness.

Freedom from Electromagnetic interference.

Wide dynamic range.

Both points and distributed

Multiplexing capabilities.