

Ans 2 Research and development 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 of optical over non optical sensors

- # Greater sensitivity
- # Electrical Passiveness
- # Freedom from electromagnetic interference
- # wide dynamic range
- # Both point and distributed configuration ~~multiplexing~~
- # multiplexing capabilities