

Fig.6 Displacement sensor

## Optical fibres in medicine

### Endoscope

The endoscope is a instrument through which small surgery could be performed. The construction details are given as in fig.7. The ray of light is obtained using laser the light is partially allowed to pass through optical fibre kept inside the tube as shown in the figure. The output of fibre is connected to lens system and then to prism to split the object. The reflected light can be obtained using polished prism and returning ray will be visualize to get the real position of inner organs.

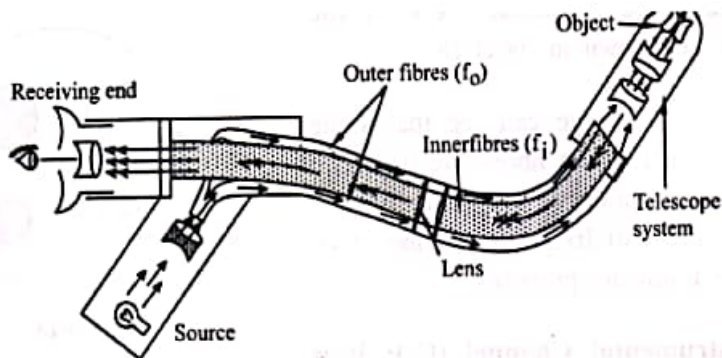


Fig.7 Endoscope