

## FOS-RS Fiber Optic Reflective Sensor

FOS-RS is LED based sensor for such applications as home limit switchers that required ultra small size of sensing head and adjustable sensing gap. The advantages of fiber-optic interrupter FOS-RS are:

- No presence of electrical wires in the sensing areas;
- The orientation of the receiving and illuminating parts of the sensor's head can be under different angles;
- Resistance to the following environments:
  - chemical;
  - corrosive;
  - water;
  - the strong electrical field;
  - microwave fields;
  - x-rays;
  - gamma radiation;
  - high pressure;
  - vacuum.
- Life time warranty;
- High reliability;
- Significant cost savings.

### General Specifications

- Diameter of fiber optic core – from 0.2 to 2.00 mm;
- Length of free cut optic duplex or simplex cable – up to 30 feet;
- Single source power supply - +5v; 20 mwt;
- Distance to the sensing surface: 0.5÷15 mm;
- Optical properties of the sensing surface:
  - Diffuse;
  - Specular;
- Space angle orientation:  $\pm 30^\circ$  relatively vertical to the wavelength of LED-650nm.

