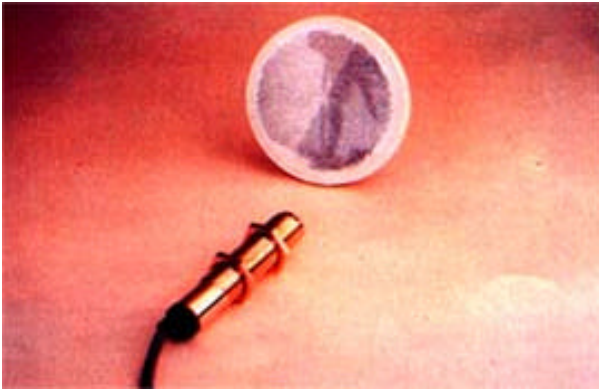


## RETRO - REFLECTIVE SENSORS



Type	Æ(mm)	L(mm)	Sn
RBI - 300	18	90	300 mm.
RBI - 1 K	18	90	1 Mtr.
RBI - 2 K	30	90	2 Mtrs.
RBI - 3 K	30	90	3 Mtrs.
RBI - 4 K	30	90	4 Mtrs.

### WORKING PRINCIPLE :

This is a system which consist of one device and a reflector. The device contains emitter and receiver. The rays emitted by the emitter are reflected by the reflector to the receiver. The sensing of the object occurs when these rays are interrupted.

### ADVANTAGES:

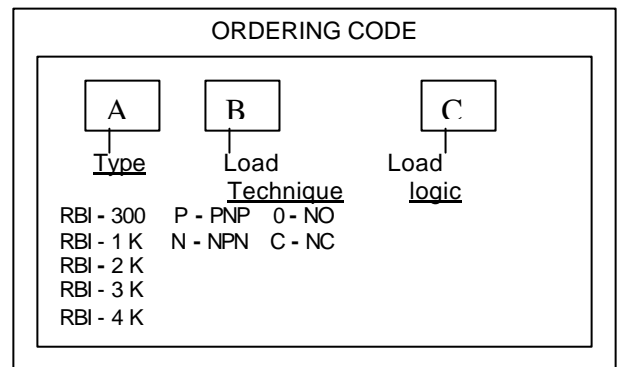
- Easy assembly compared to the through beam type.
- Large active sensing range compared to diffused beam type.

### FIELD OF APPLICATION :

This sensor can be used where it is difficult to install Through Beam Sensor due to space constraint. Further, simple wiring makes it suitable where sensing objects are bigger in size. Thus these sensors are used for loop control in decoiler, edge detection in paper/sheet metal etc.

### TECHNICAL CHARACTERISTICS:

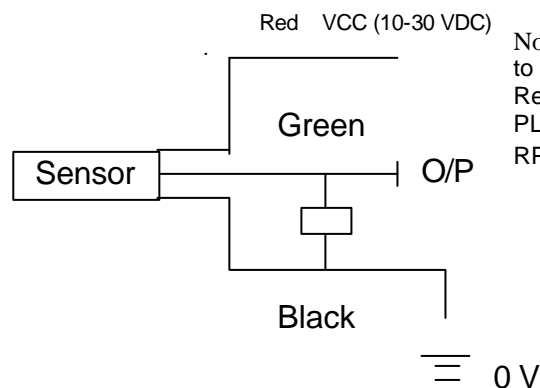
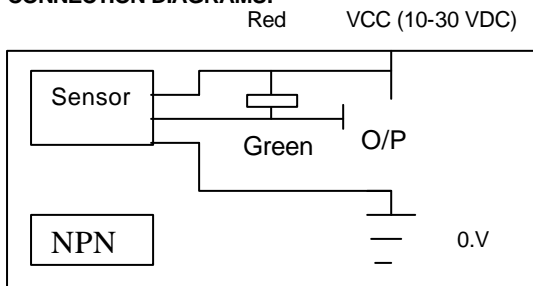
Response Time	:50 ms.
Switching Frequency	:10Hz.
Operating Voltage	:10 – 30 VDC
Maximum Load Current	:100 mA.
Output	:NPN or PNP
Maximum Current consumption At 24V DC	:29mA (OFF) :34mA (ON)
Voltage Drop	:1 V Max.
Short Circuit Protection	:Provided
LED indicator	:Provided
Temperature Limit	:0 – 55°C
Cable	:2 Mtrs (std)



Example:

- 1) RBI-3K-P-0  
Retro - Reflective Sensor, Sensing range 3 Mtrs., PNP, Normally open

### CONNECTION DIAGRAMS:



Note : Sensor can be used to drive 12 VDC / 24 VDC Relay, can be coupled to PLC, Digital Counter, Digital RPM Indicator etc.