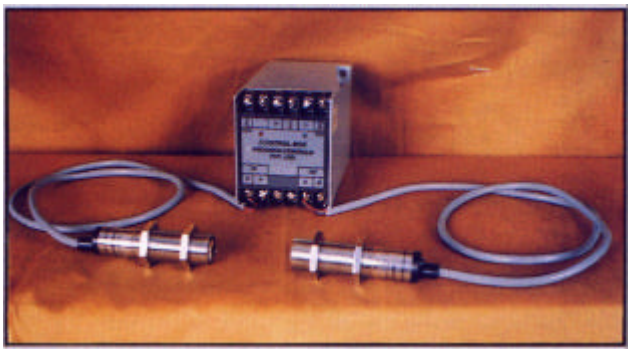
THROUGH BEAM SENSOR WITH AMPLIFIER UNIT



Type	Æ (mm)	L(mm)	Sn
SBT - 300	12	40	300 mm.
SBT – 1 K	18	40	1 Mtr.
SBT – 2 K	18	40	2 Mtrs.
SBT – 3 K	18	40	3 Mtrs.
SBT – 5 K	18	40	5 Mtrs.
SBT – 10K	30	55	10 Mtrs.
SBT – 15K	30	55	15 Mtrs.

WORKING PRINCIPLE:

This consist of two devices; a light emitter and a light receiver. These two devices are kept apart facing each other. The Gallium-Aluminium-Arsenide-Luminescent diode integrated in the transmitter sends pulses of light in the infra-red range which are invisible to the human eye. The receiver opposite to the transmitter receive these rays. Sensing is achieved when these rays are interrupted by the object.

ADVANTAGES :

- Large sensing distance is possible as emitter and receiver are kept opposite to each other.
- Suitable for precise detection of large as well as small objects.
- Repeatability and indexing precision are not impaired even if the object surface or background is reflecting.

FIELD OF APPLICATION :

Through Beam Sensors are used for sensing Semitransparent opaque objects such as Glass/Plastic Bottle, Sliver breakage detection, Paper breakage detection, Door opening/closing etc.

TECHNICAL CHARACTERISTICS:

Response Time	:250 ms.
Switching Frequency	:2Hz.
Maximum Load Current	:Not Applicable
Output is through Amplifier Box 1 C/O potential free contact of 5A (resistive) @ 230 V AC.	
Maximum Current consumption	:Transmitter–17mA
At 24V DC	:Receiver - 5mA
Voltage Drop	:Not Applicable
LED indicator	:Provided on Amplifier Box
Time arrangement (optional)	: Provided on Amplifier Box
Gain Adjustment (Optional)	: Provided on Amplifier Box
Temperature Limit	:0 – 55°C
Cable	:2 Mtrs (std)

ORDERING CODE

A	B	C
Type	Supply to Amplifier unit	Load logic
SBT - 300	230 - 230 VAC	0 - NO
SBT-1K	110-110AC	C-NC
SBT - 2 K,		
SBT - 3 K		
SBT. - 5 K		
SBT -10 K		
SBT -15 K		

Example :
1) SBT - 3K - 230 - 0
Through Beam Sensor with separate amplifier box, Sensing range 3 mtrs., 230 VAC Supply to Amplifier unit, Normally open.

IR AMPLIFIER UNIT :

Power supply : -230 V AC / 110 AG -±:10%. **Connection** : Through connector strip (12 Terminal)

Input : Through Transmitter & Receiver. **Dirnensions** : 60 x 70 x 110 rnm (H x W x D)

Output : 1 C/o relay contact or Digital Output. **Mounting**: Wall mounting or DIN RAIL mounting