

THROUGH BEAM SENSOR WITH AMPLIFIER UNIT



Type	Ø (mm)	L (mm)	Sn
SBT - 300	18	65	300mm
SBT - 1K	18	65	1 Mtr.
SBT - 2K	18	65	2 Mtrs.
SBT - 3K	18	65	3 Mtrs.
SBT - 5K	18	65	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 msec
Switching Frequency	: 2 Hz
Maximum Load Current	: Not applicable
	Output is through Amplifier Box
	1 C/o potential free contact of
	5A (resistive) @ 230V AC
Maximum Current consumption	: Transmitter-17 mA
	Receiver - 5 mA
Voltage Drop	: Not applicable
LED Indicator	: Provided on Amplifier Box
Timer arrangement (Optional)	: Provided on Amplifier Box
Gain Adjustment	: Provided on Amplifier Box
Temperature Limit	: 0 - 55° C
Cable	: 2 Mtrs (std.)

ORDERING CODE

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

EXAMPLE :

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 AC ± 10%
Input	: Through Transmitter & Receiver
Output	: 1 C/o relay contact or Digital Output

Connection	: Through connector strip (12 Terminal)
Dimensions	: 70 x 60 x 110 mm (H x W x D)
Mounting	: Wall mounting or DIN RAIL mounting



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