

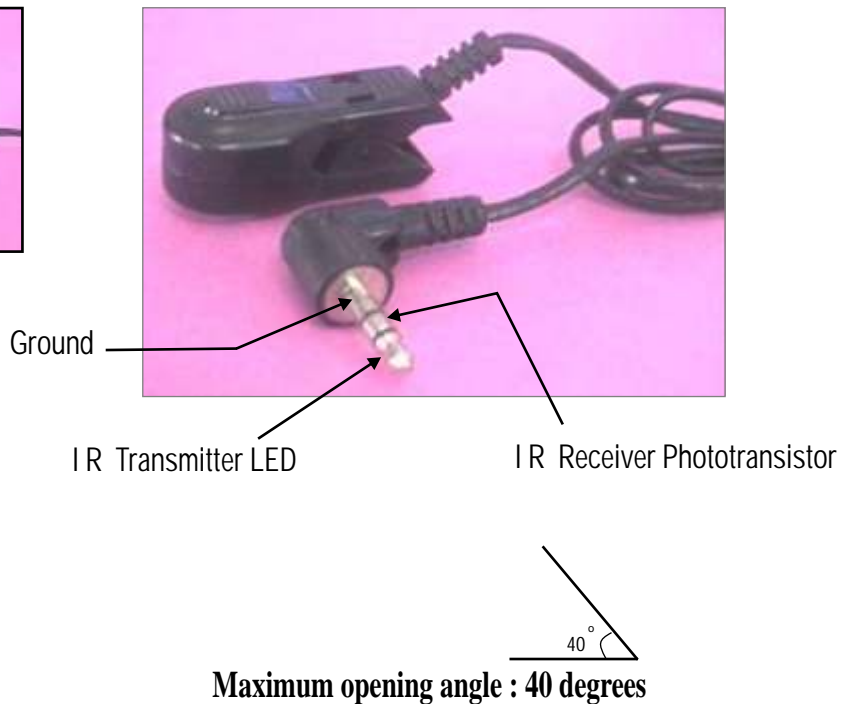
COSY™ Infra-Red Finger / Ear lobe Clip Sensor



Finger Clip application



Ear Lobe application



Dimensions (Closed clip) : Length 40 mm X width 16mm X Height 19mm

Technical Specifications of IR Phototransistor (3 mm)

CHIP MATERIAL	LENSE COLOR	RISE & FALL TIME (μs)	Bvceo Min.(V)	Vce(Sat)		Ic(ON)	
				Ee = mW / cm ²	Max(V)	Ee =mW / cm ²	MIN (mA)
SILICON	BLACK	15/15	30	1	0.4	1	0.7

Technical Specifications of IR LED (3 mm)

MATERIAL	LENSE COLOR	WAVELENGTH (Nm)	VF(V)		Po(mW / sr) @ 20mA		Viewing angle θ
			TYP.	MAX.	IF = mA	Min	
GaAlAs	WHITE or BLUE	940	1.2	1.5	20	4.0	± 30

Cable : 2 core shielded cable , **Cable Length :** 1.1 meter appx.

Connector Plug : 3.5 mm stereo plug , **Clip Housing Material :** ABS

Important : For best results the application environment should be away from direct sunlight or high intensity lights and the person under observation should stop any body movements / exercises.

These sensor clips are basically designed for use with COSY Pulse Rate Monitors Model PM-1102. They can also be used in research and development projects and as replacement probes in deferent exercise machines like treadmills, exercycles etc. if they have compatible circuits.

These sensor clips consist of only a pair of IR photo transistor and receiver LEDs enclosed in a specially designed plastic clip housing and cable with stereo jack plug. The probe clip alone does not have any other circuit . To use the probe you must have some suitable application circuit or compatible pulse rate monitor. The technical data of probe clip is given above for comparison .

It is not guaranteed that clips will match with your any existing machines . Pl. compare technical data and plug connections before use.

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