

Thermopile Line Array

For Non-Contact Temperature Sensing

TPL 32C 3774 L4.7 Fast Line Array

Target Applications

- Non-Contact Temperature Measurement
- Smart Homes
- Scanning Presence Detection

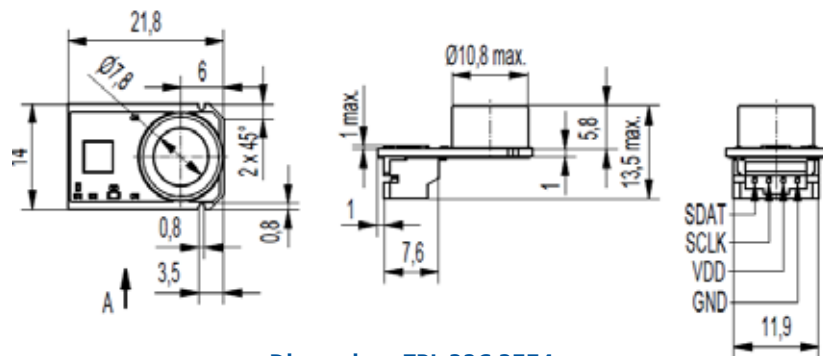
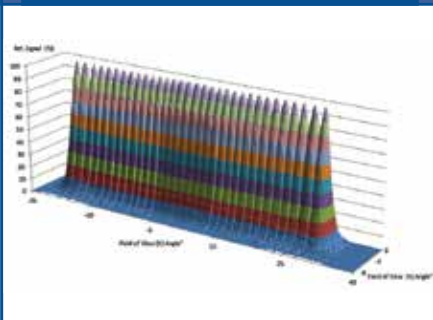
Features and Benefits

- Digital SMBus
- Factory Calibration
- Ambient Temperature Output
- Noise Reduction Filter

Product Description

This new Excelitas Thermopile Line Array represents the improved version of TPL 32C modules for non-contact temperature measurement and scanning applications. It is featured by parallel read out, and as such, is much faster in response. The new module consists of an improved Array Sensor and small microprocessor which provide a calibrated temperature output signal. The microprocessor also acts as the bus interface. The module is supplied with 4-pin connector. The new 32-Element Line array is designed to measure temperatures up to 60°C.

Field of View TPL 32C 3774 L4.7



Dimensions TPL 32C 3774

TPL 32C 3774 L4.7

Parameter	Symbol	TPL 32C 3774 L4.7	Unit	Remark
Sensing Temperature Range		0...60	°C	only A60 Version
Object Temperature Accuracy		+/- 1,5	°C	
Operating Temperature Range		-25...+100	°C	
Storage Temperature Range		-40...+100	°C	
Supply Voltage	V_{DD}	4,5...5,5	V	
Supply Current	I_{DD}	20	mA	max
Field of View x direction	FoV _x	59	Degree	peak to peak
Field of View y direction	FoV _y	3	Degree	50% Line
Signal refresh time	$t_{refresh}$	100	ms	
Digital Interface		SMBus		