



PRODUCTS / LIGHT SENSORS / LINEAR ARRAY



Linear Array



Sensing is Life

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Our vision is to create the uncontested leader in optical solutions through bold investments in disruptive innovation and continuous transformation delivering best-in-class profitability and growth.

Linear array sensors consist of a linear array of integrating photosensing pixels which measure incident light over a user-defined exposure time and generate a voltage or digital output which represents the light exposure at each pixel. The sensors are available in a variety of lengths and pixel resolutions. The analog output may be directly interfaced to an ADC for digital processing or for comparing black/white thresholds. Applications include contact image sensing, optical character recognition, edge detection, and object measurement in products such as copiers, document scanners and spectroscopy.

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PartNo	Description	Supply Voltage V	DPI	Active Length mm	Pixel Count	Integration	Output	Max. Clock Speed MHz	Temperature Range °C
TSL3301	102 x 1, with ADC 300 DPI	3 - 5.5	300	8.64	102	Frame by frame	Digital	10	-25 to 85

PartNo	Description	Supply Voltage V	DPI	Active Length mm	Pixel Count	Integration	Output	Max. Clock Speed MHz	Temperature Range °C
TSL1401CL	128 x 1, with hold 400 DPI	3 - 5.5	400	8.12	128	Frame by frame	Analog	8	-25 to 85
TSL1401CCS	128 x 1, with hold 400 DPI	3 - 5.5	400	8.12	128	Framy by frame	Analog	8	-40 to 100

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