

Multi Line Sensor Heads for narrow-width scanners

LSH3004-AA10A

Equipped with the sensor chips that have built-in analog memory, this compact color multi line sensor head is suitable for any scanning applications that require rapid scanning of widths of up to A6. It best fits into the photo graphic applications.

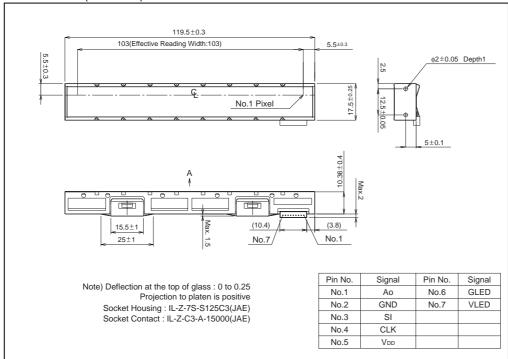
Applications

Check readers, card scanners, and a variety of other image input devices.

Features

- 1) By integrating the signal amplifier on the sensor chip, external noise is shut out. Additionally, newly developed analog memory circuit and realizes high speed scanning.
- 2) The LED light source is mounted on the same substrate as the sensor chip which makes it possible to package the device with lighter weight and an extremely small size.
- 3) With the proprietary prism(reflectors), the output signal is maintained uniformly.
- 4) The ceramic substrate is used for excellent dimensional accuracy and thermal stability. Variation and maximize the image re-productivity.

●Dimensions (Unit: mm)



LSH3004-AA10A **Data Sheet**

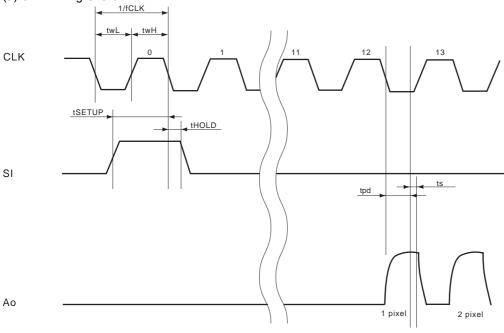
Characteristics

Parameter	Symbol	Тур.	Unit
Effective scanning width	-	103	mm
Primary scan dot density	_	300	dpi
Total dot number	-	1216	dots
Power supply voltage	VDD	5	V
Scanning speed	SLT	0.5	ms / line
Clock frequency	CLK	2.5	MHz
Maximum dynamic range	VRMax.	0.5	V
Minimum dynamic range	VRMin.	0.25	V
Dark output	Vod	1.0±0.4	V
Operating temperature	-	5 to 45	°C

●Pin assignments

No.	Circuit	1/0	Functions
1	Ao	0	Analog output
2	GND	I	Ground
3	SI	I	Serial-in
4	CLK	ı	Clock
5	V _{DD}	I	Power supply
6	G-LED	I	LED ground
7	V-LED	I	LED power supply

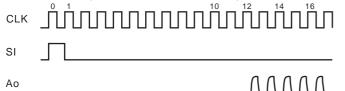
●Timing chart (a) CLK Timing Chart



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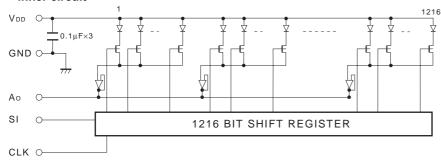
(b) Data Output Timing Chart

After turning on the SI pulse, the analog output shape starts from the setting up point of 12 clock pulse.



Note) Output blank part cannot be used as tha analog output standard level.





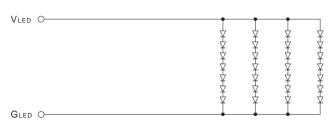


Fig.2

Notes

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