

# Add-on Structure Contact Image Sensor Heads

### LSH3008-CA10A

The Basic CIS by which the add-on can shorten the development period of a product sharply while being able to satisfy broad demand. A taper glass and tempered glass can respond as an option. As a measure against a paper jam, the custom-made correspondence of the special cantact plate can be carried out.

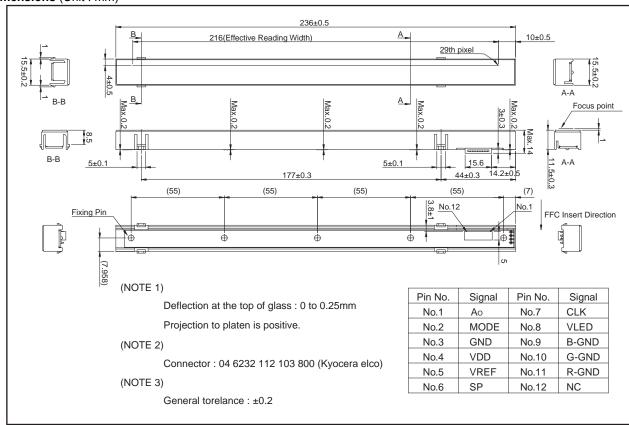
### Applications

Document Scanners, Bill sorters. Wide Format Scanners, and Lottery.

### Features

- 1) Signal amplifier integrated into each sensor IC in order to eliminate external noise; compatible with 3.3V interface.
- 2) LED light source mounted on the same substrate as the sensor chip itself, resulting in a more compact, lightweight package.
- 3) Proprietary prism maintains a uniform output signal.

### ●Dimensions (Unit: mm)



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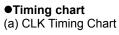
### Characteristics

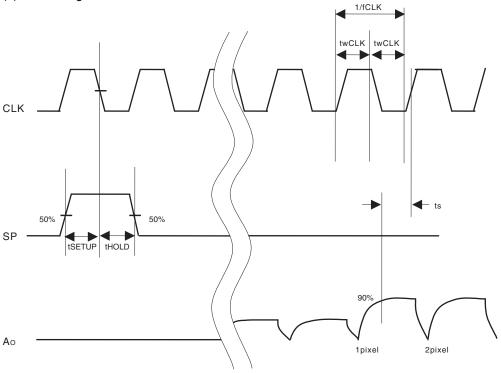
Parameter	Symbol	Тур.	Unit
Effective scanning width	-	216	mm
Primary scan dot density	-	300	dpi
Total dot number	-	2592	dots
Power supply voltage	VDD	3.3	V
Scanning speed	SLT	1.05×3	ms / line
Clock frequency	CLK	8	MHz
Maximum dynamic range	VRMax.	0.5	V
Minimum dynamic range	VRMin.	0.25	V
Dark output	Vod	VREF±0.1	V
Operating temperature	-	5 to 45	°C

### ●Pin assignments

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No.	Circuit	1/0	Functions		
1	Ao	0	Analog Output		
2	MODE	I	Mode		
3	GND	I	Ground		
4	V <sub>DD</sub>	I	Power Supply		
5	VREF	I	Reference Voltage		
6	SP	I	Start Pulse		
7	CLK	I	Clock		
8	V-LED	ı	LED power supply		
9	B-GND	ı	B-LED ground		
10	G-GND	I	G-LED ground		
11	R-GND	ı	R-LED ground		
12	NC	_	_		

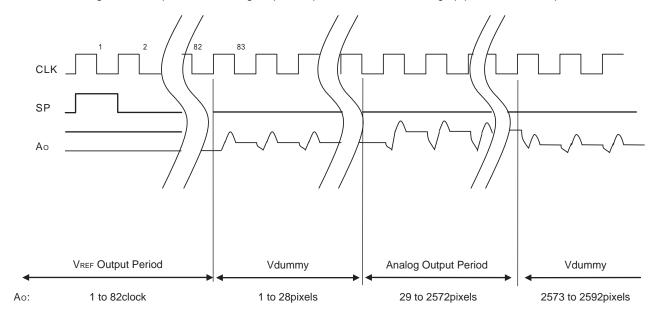
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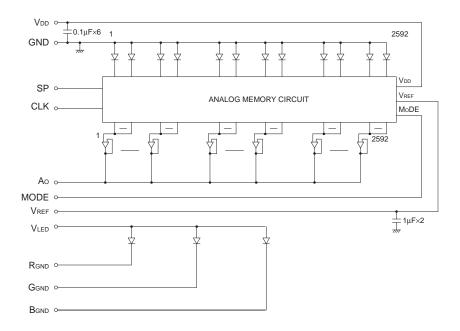
(b) Data Output Timing Chart (300dpi mode)

After turning on the SP pulse, the analog output shape starts from the setting up point of 83 clock pulse.

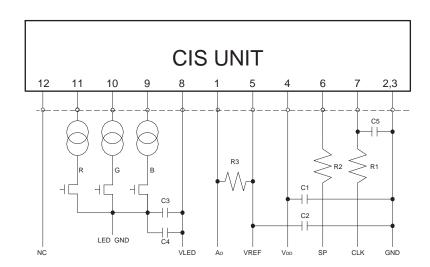


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### •Inner circuit



### ●Peripheral circuit



R1=R2=10 to 100Ω, R3=100ΚΩ C1=C2=47μF C3=100μF, C4=0.1μF, C5=100pF

Note: The above constant value are examples, and please adjust the parameters by evaluating waveforms with the device which is used.

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