

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 contact plate can be carried out.

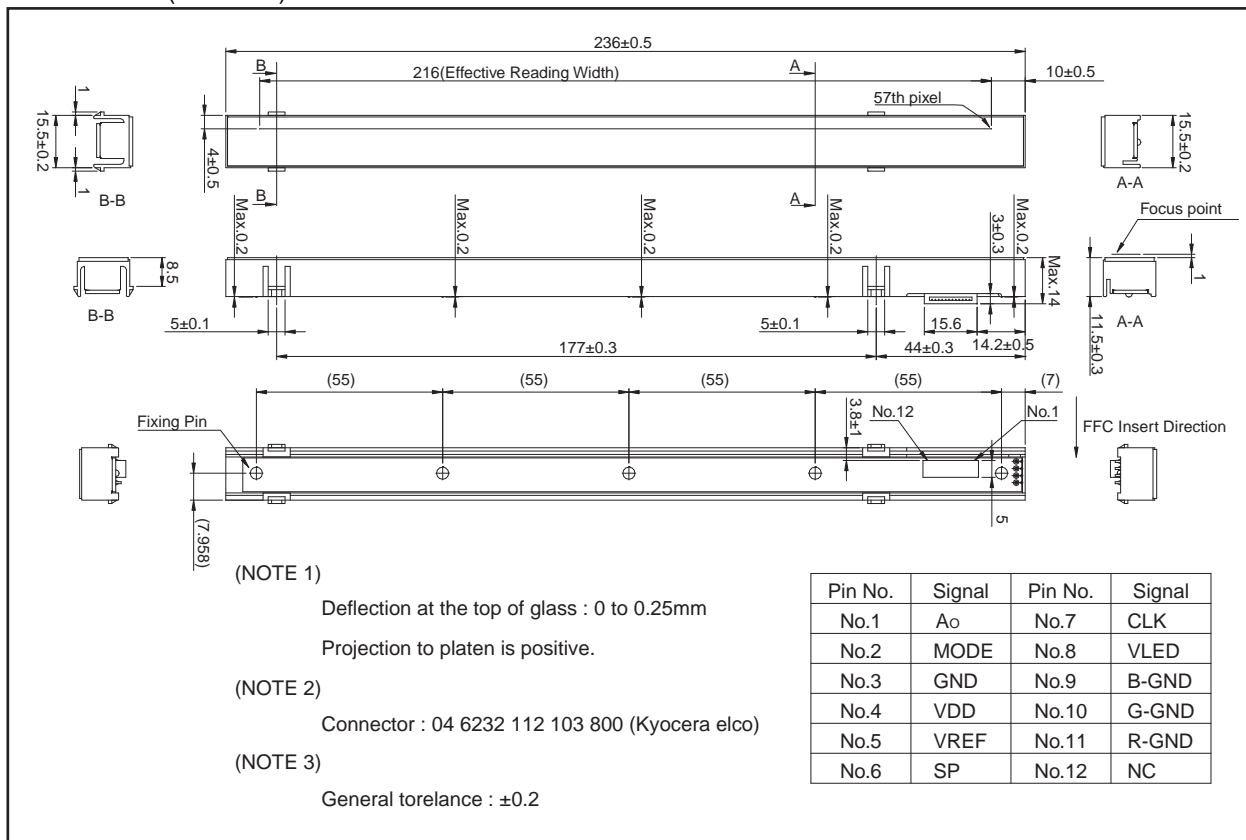
●Applications

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)



●Characteristics

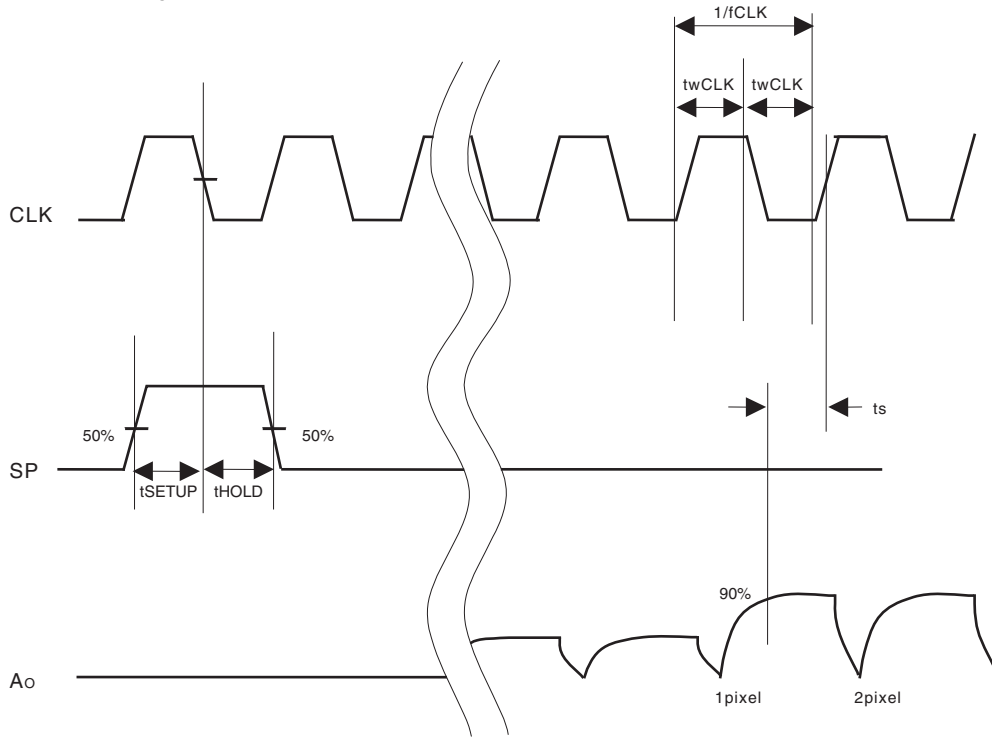
Parameter	Symbol	Typ.	Unit
Effective scanning width	–	216	mm
Primary scan dot density	–	600	dpi
Total dot number	–	5184	dots
Power supply voltage	V _{DD}	3.3	V
Scanning speed	SLT	0.7×3	ms / line
Clock frequency	CLK	8	MHz
Maximum dynamic range	VRMax.	0.5	V
Minimum dynamic range	VRMin.	0.25	V
Dark output	V _{od}	V _{REF} ±0.1	V
Operating temperature	–	5 to 45	°C

●Pin assignments

No.	Circuit	I / O	Functions
1	A _o	O	Analog Output
2	MODE	I	Mode
3	GND	I	Ground
4	V _{DD}	I	Power Supply
5	V _{REF}	I	Reference Voltage
6	SP	I	Start Pulse
7	CLK	I	Clock
8	V-LED	I	LED power supply
9	B-GND	I	B-LED ground
10	G-GND	I	G-LED ground
11	R-GND	I	R-LED ground
12	NC	–	–

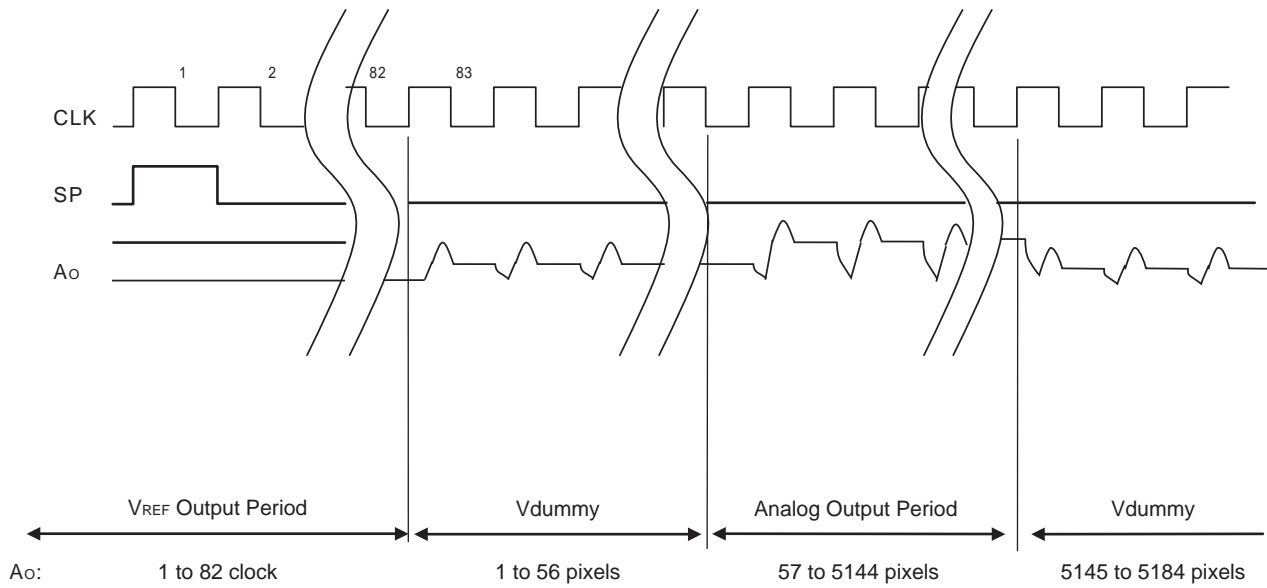
●Timing chart

(a) CLK Timing Chart

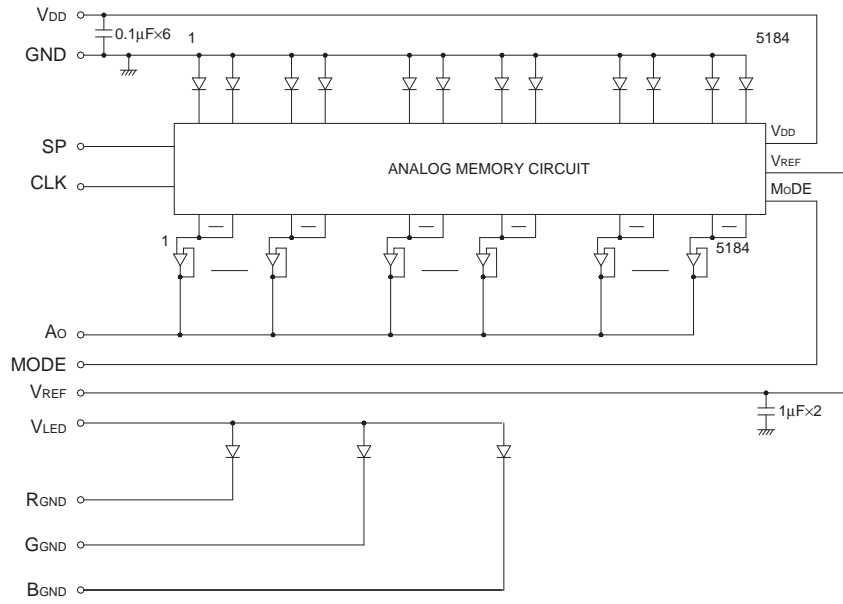


(b) Data Output Timing Chart (600dpi mode)

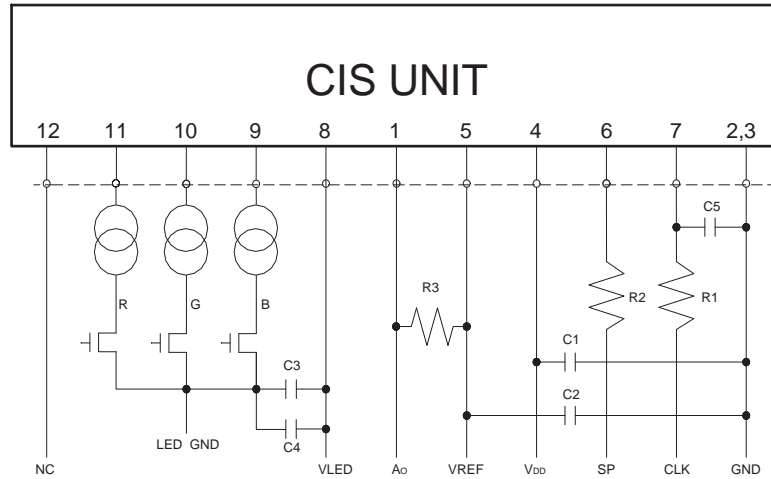
After turning on the SP pulse, the analog output shape starts from the setting up point of 83 clock pulse.



●Inner circuit



●Peripheral circuit



R1=R2=10 to 100Ω, R3=100KΩ
 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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