

A. General

The SD300 series contains 5 models which with different interface.

Model NO.	SD300	SD302	SD303	SD304	SD305	SD308
Interface	TTL	RS232	RS232 &KB	WAND Emulation	KB	USB

B. Electrical Characteristics

	SD302	SD303	SD304	SD305	SD308
Decoder	Y	Y	Y	Y	Y
Processor Type	----- 8051 Compatiable -----				
Operating Freq.	----- 29.4912 MHz -----				
Supply Voltage	----- DC 5V \pm 5% -----				
Scan Rate	----- 40 scans/sec -----				
Output Voltage(Typ.)	\pm 9V	\pm 9V / +5V	+5V	+5V	+5V
Output Low Voltage(Max.)	-	- / 0.7V	0.4V	0.7V	0.4V
Power Consumption					
Power On (Typ.)	130 mA	130 mA	120 mA	120 mA	125 mA
Stand by (Typ.)	50 mA	50 mA	40 mA	40 mA	45 mA
Operation (Typ.)	120 mA	120 mA	110 mA	110 mA	115 mA

C. Optical Characteristics

	SD302	SD303	SD304	SD305	SD308
Sensor	----- Linear CCD Sensor -----				
Light Source	----- RED LEDs, 660 nm -----				
Ambient Light	----- 1000 LUX MAX. (Sunlight) -----				
	----- 2000 LUX MAX. (Fluorescent lamp) -----				

D. Physical Characteristics

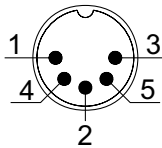
	SD302	SD303	SD304	SD305	SD308
Body Weight	----- Approx. 4.94 oz (140 gm) -----				
Cable Weight	----- Approx. 2.65 oz (75 gm) -----				
Body Material	----- ABS Plastic & Rubber 94HB Class -----				
Cable Length	----- 5 FT. (150 cm) -----				
Connector	----- RJ 45C 10 Pins -----				
AdaptorType	DB 9F	MiniDIN 6 or DB 9F	DB 9F	MiniDIN 6	USB A Type

Pin Assignment

a) Keyboard Interface

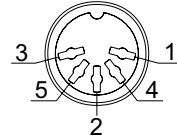
DIN 5 MALE

Pin No.	Function
1	HOST CLK
2	HOST DATA
3	NC
4	GND
5	Vcc(+5V)



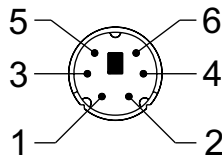
DIN 5 FEMALE

Pin No.	Function
1	KB CLK
2	KB DATA
3	NC
4	GND
5	Vcc(+5V)



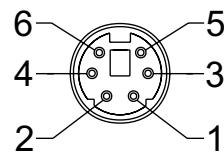
MiniDIN 6 MALE

Pin No.	Function
1	HOST DATA
2	NC
3	GND
4	Vcc(+5V)
5	HOST CLK
6	NC



MiniDIN 6 FEMALE

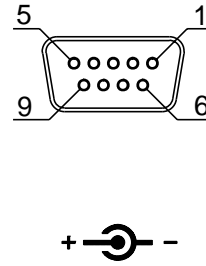
Pin No.	Function
1	KB DATA
2	NC
3	GND
4	Vcc(+5V)
5	KB CLK
6	NC



b) RS-232 Interface

DB 9 Female

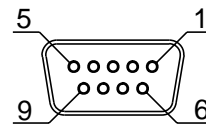
Pin No.	Function
2	TXD
3	RXD
5	GND
7	CTS
8	RTS
9	Vcc/+5V
Power Lead	Vcc/+5V



c) WAND Emulation Interface

DB 9 Female

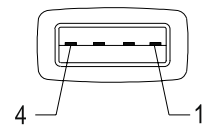
Pin No.	Function
2	DATA
7	GND
9	Vcc



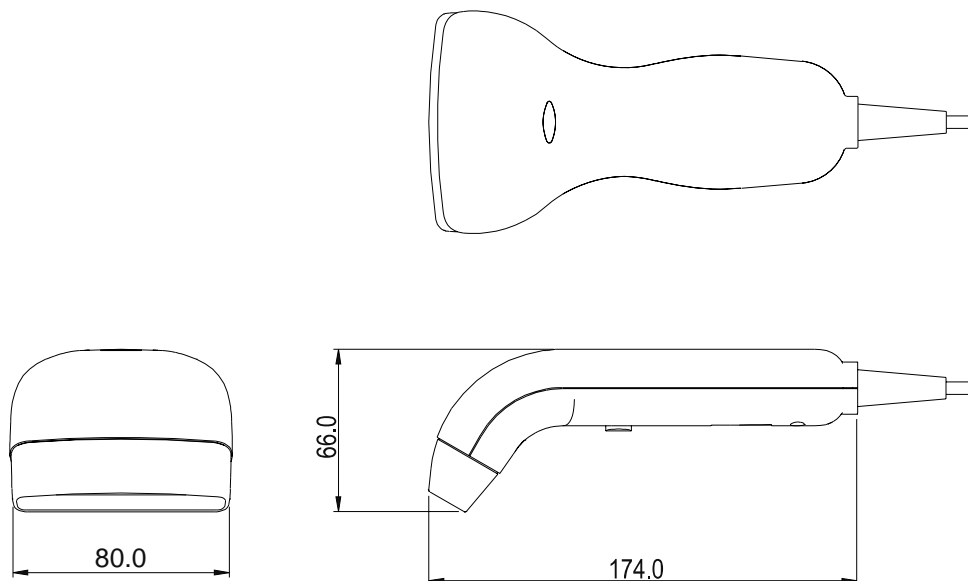
d) USB Interface

USB A Type Male

Pin No.	Function
1	Vcc
2	D-
3	D+
4	GND



Dimension



E. Performance

	SD302	SD303	SD304	SD305	SD308
Width of Field	----- 3.15 inch (80 mm)-----				
Depth of Field	----- 0.8 inch (20 mm) / 20 mil code width-----				
Resolution	----- 4 mil (0.10 mm)-----				
Print Contrast Ratio	----- PCS 0.45 / 6 mil code width-----				
Reading Angle	Test conditions : Code 39, 10 mil, PCS 0.9				
Forward	----- 65°-----				
Backward	----- 55°-----				
Left & Right(Skew)	----- ± 30°-----				
Dead Zone	----- Forward 9° - 13°-----				
Readable Barcode	ALL UPC/EAN/JAN , Code 39, Code 39 Full ASCII, Code 128,Code 93, Interleave 25, Industrial 25, Matrix 25, China Postage, CODABAR/NW7, Code 11, MSI/PLESSEY, Code 32				

F. Environment

Operating Temperature	32°F to 104°F(0°C to 40°C)
Storage Temperature	-4°F to 140°F (-20°C to 60°C)
Relative Humidity	20% to 85% (Non-condensing)
Shock	31.5 inch (80 cm) drop on Concrete Surface
EMI/SAFETY	CE, FCC CLASS A

Specifications mentioned in this publication are subject to change without notice.