

# SPECIFICATION

Customer : \_\_\_\_\_

Attention : \_\_\_\_\_

Your Model No. : \_\_\_\_\_

Champ's Model No. : BR300 Series \_\_\_\_\_

Date : \_\_\_\_\_

Sample Serial No. : \_\_\_\_\_

RECEIPT STATUS

RECEIVED

Date \_\_\_\_\_

Signature \_\_\_\_\_

Title



Web : [www.champtek.com.tw](http://www.champtek.com.tw)

Email : [sales@champtek.com.tw](mailto:sales@champtek.com.tw)

## ChampTek Incorporated

5/F, No. 2, Alley 2, Shih-Wei Lane, Chung Cheng Rd.,  
Hsin Tien City, Taipei, Taiwan, R.O.C.

Tel : 886-2-22192385 Fax : 886-2-22192387

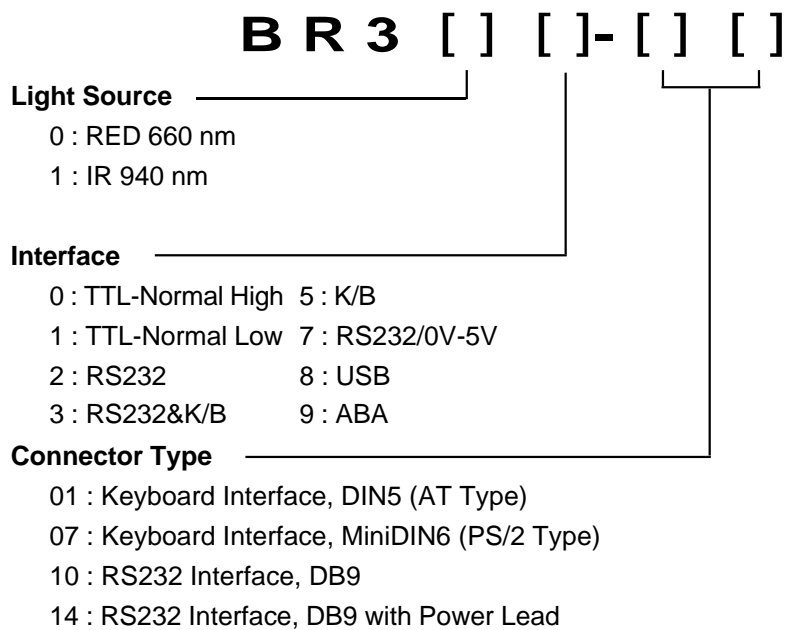
## A. General

This slot reader is well designed and constructed with high quality components. It accepts wide range of reading speed and provides very accurate barcode scanning. With different wavelengths, barcodes which are printed on different materials can be easily read to suit the application needs.

The built-in decoder is an advanced and versatile decoding facility for barcoding systems. It works with variety of bar code types and computer interfaces.

- \* Available in Two Wavelength(Visible 660 nm and Infrad Red 940 nm)  
Can read barcodes on various printed materials for different application requirement
- \* Single 5 Volts Power Supply (TTL and keyboard wedge version)  
Simplified connection to one input power source
- \* Durable Guide for Easy Reading  
Constructed with high quality materials for long lasting barcode reading
- \* Extra Port for Connecting More Reader  
More flexible reading capability

## B. Models



### C. Optical Characteristics

|                       | <b>BR30</b> [ ] [ ]                           | <b>BR31</b> [ ] [ ] |
|-----------------------|---|---------------------|
| <b>Light Source</b>   | Red 660nm                                     | IR 940nm            |
| <b>Sensor</b>         | ----- Photo Diode -----                       |                     |
| <b>Resolution</b>     | ----- 6 mil (0.15 mm) -----                   |                     |
| <b>Scanning Speed</b> | ----- 3.9 -39 inch/sec (100 - 1000 mm) -----  |                     |
| <b>Ambient Light</b>  | ----- 10000 LUX Max. (Fluorescent lamp) ----- |                     |

*Test Conditions : Code 39/PCS 0.9*

### D. Electrical Characteristics

|                                | <b>TTL Models</b> | <b>KB Interface</b> | <b>RS232 Interface</b> |
|--------------------------------|-------------------|---------------------|------------------------|
| <b>Supply Voltage</b>          | DC +5V ±5%        | DC +5V ±5%          | DC +5V ±5%             |
| <b>Power Consumption(Typ.)</b> | 10 mA             | 50 mA               | 60 mA                  |
| <b>Operating Frequency</b>     | -----             | 14.7456 MHz         | 14.7456 MHz            |
| <b>Output Voltage(Typ.)</b>    | +5V               | +5V                 | ± 9V                   |
| <b>Output Voltage(Min.)</b>    | 4.5V              | 4.5V                | ± 5V                   |
| <b>Output Low Voltage</b>      | 0.4V              | 0.4V                | -----                  |
| <b>Logic High</b>              | Bar               | -----               | -----                  |
| <b>Logic Low</b>               | Space             | -----               | -----                  |
| <b>Inactive Output Level</b>   | High              | -----               | -----                  |

### E. Physical Characteristics

|                      | <b>TTL Models</b> | <b>KB Interface</b> | <b>RS232 Interface</b> |
|----------------------|-------------------|---------------------|------------------------|
| <b>Body Weight</b>   | 233g/8.22oz       | 240g/8.47oz         | 240g/8.47oz            |
| <b>Body Material</b> | PC + ABS          | PC + ABS            | PC + ABS               |
| <b>Cable Length</b>  | -----             | 1500 mm (5 Ft)      | -----                  |
| <b>Dimension</b>     | 90 X 29 X 38 mm   | 90 X 29 X 38 mm     | 90 X 29 X 38 mm        |

### F. Codes Read

ALL UPC/EAN/JAN, Code 39, Code 39 Full ASCII, Code 128, Interleave 25, Industrial 25, Matrix 25, CODABAR/NW7, MSI/PLESSEY, Code 93, Code 11

## G. Environment

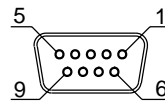
For all models

|                              |                               |
|------------------------------|-------------------------------|
| <b>Operating Temperature</b> | 0°C to 40°C (32°F to 104°F)   |
| <b>Storage Temperature</b>   | -20°C to 60°C (-4°F to 140°F) |
| <b>Relative Humidity</b>     | 20% to 85% (Non-condensing)   |

## H. Pin Assignment

### a. TTL Interface (DB 9 Female)

| Pin No. | Function |
|---------|----------|
| 1       | S.O.S.   |
| 2       | DATA     |
| 3       | N.C.     |
| 4       | N.C.     |
| 5       | TRIGGER  |
| 6       | P. E.    |
| 7       | GND      |
| 8       | N.C.     |
| 9       | +5V      |

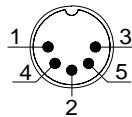


**DB 9 Female**

### b. PC Keyboard Interface

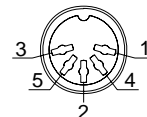
#### DIN 5 MALE

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



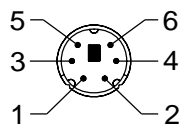
#### DIN 5 FEMALE

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



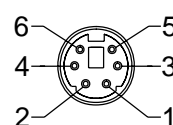
#### MiniDIN 6 MALE

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



#### MiniDIN 6 FEMALE

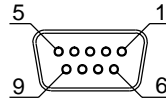
| Pin No. | Function |
|---------|----------|
| 1       | KB DATA  |
| 3       | GND      |
| 4       | Vcc(+5V) |
| 5       | KB CLK   |



### c. RS-232 Interface

#### DB9 Female with Power Lead

| Pin No.    | Function  |
|------------|-----------|
| 2          | TXD       |
| 3          | RXD       |
| 5          | GND       |
| 7          | CTS       |
| 8          | RTS       |
| Power Lead | Vcc (+5V) |

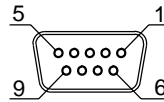


**DB 9 Female**



#### DB9 Female without Power Lead

| Pin No. | Function  |
|---------|-----------|
| 2       | TXD       |
| 3       | RXD       |
| 5       | GND       |
| 7       | CTS       |
| 8       | RTS       |
| 9       | Vcc (+5V) |



**DB 9 Female**

**I. Dimension**

**With Cover/90 mm Bench**

