

## **MZR501**

### One-dimensional red light module

The scanning angle is wide

Reliable material for itself

Improve scan quality

Small size compatible with all kinds of equipment

Low power adaptive lighting technology



### **Product Features**

#### Reliable material

The high-definition glass lenses of MZR501 ensure reliable performance in all conditions. Its robust fiberglass reinforced polycarbonate body is resistant collectors. to mechanical impact and can be used from the general home environment to hard field applications

#### The scanning Angle is wide

Its 50-degree scan Angle is greater than any other MZR501 Allow it to automatically read bar codes, laser scanning engine of its class, enabling it to read high-capacity bar codes in space-limited applications.

#### Improve scan quality

The use of short wavelength red LED lighting improves visibility. The MZR501's high definition glass lens ensures reliable performance under all conditions.

### Small size compatible with all kinds of equipment

The MZR501 is only 7.5mm high, allowing for lowprofile installations such as smartphones and data

#### Low power adaptive lighting technology

whether on paper or on LCD screens such as mobile phones/tablets/and PC monitors, while maintaining very low power consumption.

# **MZR501**

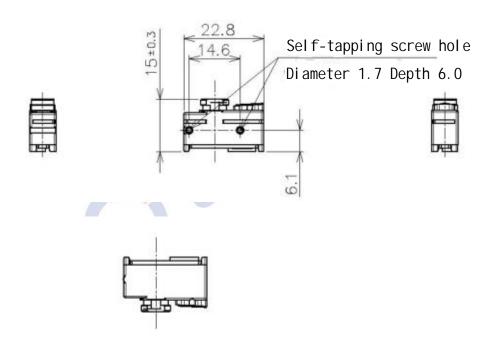
One-dimensional red light module

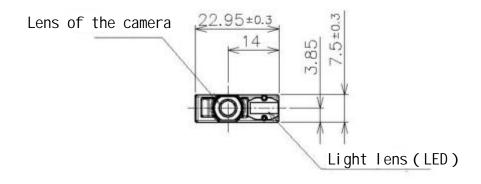
### 1. Technical Parameter

Electrical Character					
Data interface	TTL				
Working voltage	DC3.3V±10%				
Working current	max250mA				
Interface specifications	0.5-12P FPC				
Optical Property					
Sensor	CCD linear sensor				
Aim at the light source	Red bar LED				
Reading Angle	Rotation angle: ±50°; Skew angle: ±65°; Tilt angle: ±25°				
Max wavelength	624nm				
Scanning rate	300scans				
Standard	50°				
Visual angle Vertical	±0.25	Standard value			
	± (1.3~1.8)	Crest value			
Physical Characteristics					
Size	22.8mm x 15.0mm x 7.5mm(L*W*H)				
Weight 2.4g					

Environmental Character				
Temperature	-20°- 60°C			
Humidity	5% - 95%			
Light resistance	Incandescent lamp 4000lx, fluorescent lamp 4000lx, sunlight 100000lx			
Seismic ability	180cm multiple drops on concrete floor without any fault			

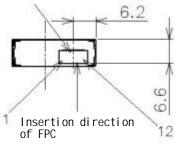
### 2. Product Size





### 3. Definition of PIN

Interface connector (12-pin)



Pin name	Pin number	I/0	Instruction
Trigger	1	Ι	Trigger input, CMOS, logic level:low=trigger
Wake	2	Ι	Wake up input, CMOS, logic level:low=wake up
Decode LED	3	0	LED output, CMOS logic level:Low=LED is on
Buzzer	4	0	The buzzer controls the pulse output.CMOS logic level:low = buzzer on
Power Down	5	0	Low power output, CMOS logic level: high = low power state
RTS	6	0	Request to send, CMOS logic level
CTS	7	I/0	Clear the send, CMOS logic level
Txd	8	0	Serial data output, CMOS logic level
Rxd	9	I/0	Serial data input, CMOS logic level
GND	10		Landi ng
VDD	11	Ι	Power supply:DC 3.0 -3.6 v
Boot	12	I	Start signal input, CMOS, logic level: high = normal operation

## 4. Angle of scan

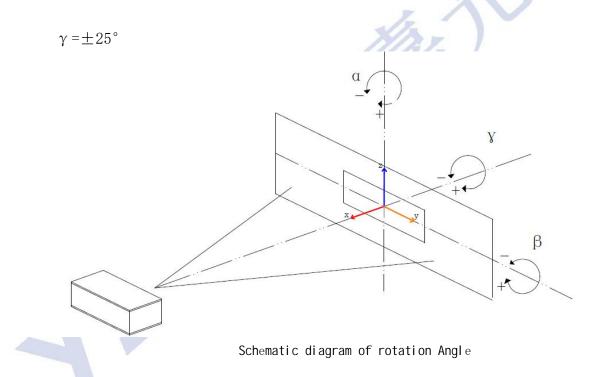
Rotate around the Z axis

$$\alpha = \pm 50^{\circ}$$

Rotate around the Y axis

$$\beta = \pm 65^{\circ}$$

Rotate around the X axis



#### 5. Read the depth of field Resolution ratio Count Symbol PCS Blank space 0.9 1 1.0mm Code39 20mm 0.5mm Code39 0.9 10mm 0.6mm EAN -13 0.9 10mm 13 Code39 0.9 5mm 0.25mm 0.127mm Code39 0.9 7mm

<sup>\*</sup>No further notice will be given if the specifications are changed\*

