



## 11mm Shaft 5-Pin Incremental Rotary Encoder SMT Type – Bulk Supply

Our Product Introduction

for more products please visit us on [ttencoder.com](http://ttencoder.com)

### Basic Information

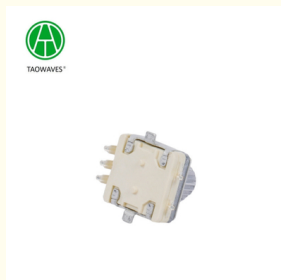


### Product Specification

- Model NO.: EC11A21R03
- Readout Mode: Contact
- Operating System: Contact Brush Type
- Signal Output: Voltage Output
- Axle Sleeve Type: Empty Type
- Package: -
- Installation Form: Axle Sleeve Type
- Brand: Taowaves
- Axonia: -
- Transport Package: Carton
- Specification: 11mm
- Trademark: TAOWAVES
- Origin: China
- Customization: Available
- Type: Rotary Encoder



### More Images



EC11A21R03短柄



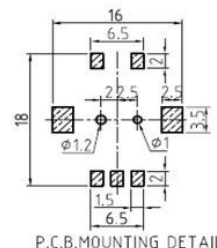
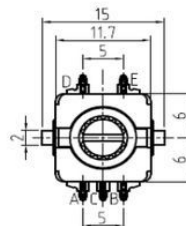
Size: 11mm

Switch Travel: 0.5mm

Pulses: 15/20

Number of detent: 0/20/30

Rotational life: 30000cycles



## 1.Electrical Characteristics

Rated voltage: DC 5V

Resolution: 15/20pulses/360°

Insulation resistance: 100MΩ Min at DC 250V

Dielectric strength: 1 minute at AC300V

Phase Difference: 15P $\geq$ 5.6ms / 20P $\geq$ 4.0ms

## 2.Mechanical Characteristics

Total rotational angle:  $360^\circ$  (Endless)

Detent torque: 2~15mN.m.(20~150gf.cm)

Shaft wobble: 0.7\*L/30mm p-p Max(L: mounting height)

Push-Pull Strength of shaft 8KG

Operation fore of switch: 500±200gf

Travel of switch: 0.5±0.3 mm

### 3. Endurance Characteristics

Rotational life: 30,000cycles

Push-life: 30,000cycles

Operating temperature range: -30°C to +80°C

Storage temperature range: -40°C to +85°C

## Our Factory

## Company Introduction

Dongguan City Taotao Electronics Co., Ltd, was established in May 2014 and is now located at Weichang Road, Chashan Town, Dongguan City. It has 14,000 square meters of standard factory buildings and dormitories, which has a beautiful environment and convenient transportation. We are a national high-tech enterprise which is professional in designing, manufacturing and selling encoders, potentiometers, switches, sensors, and encoder smart modules. The components are extensively utilized for white household electrical appliances, small home appliances, smart home appliances, car audio, bluetooth audio, multimedia audio, instrumentation, medical equipment, electronic cigarettes, computer peripheral communication equipment, aviation model aircraft and other fields.

Taotao has engaged excellent technical R & D personnel in the industry and management personnel with abundant experiences since establishment. They have been developing new products and conducting improvement and upgrading to meet clients' requirements. For guaranteeing the products quality, they continuously enhance the percentage of self-production for the key parts, like 100% self-producing for plastic parts and lathing shafts, and invest in developing automatic producing machines and testing instruments.

**200<sup>+</sup>**  
employees

**14000<sup>m²</sup>**  
factory building

**500<sup>+</sup>**  
Cooperative clients



Patents and certificates



## 工厂展示 FACTORY DISPLAY



MEASURING ROOM  
测量室



ENVIRONMENTAL LABORATORY  
环境实验室



RECEPTION  
前台



GENERAL OFFICE  
综合办公室



INJECTION MOLDING WORKSHOP  
注塑车间



ASSEMBLY WORKSHOP  
组装车间



AUTOMATIC INSPECTION WORKSHOP  
自动检测车间



AUTOMATIC WORKSHOP  
自动化车间



## 我们的实力 OUR STRENGTH



五金冲压  
METAL STAMPING



模具车床  
COMPANY SHOWS



寿命实验室  
LIFE LABORATORY



轴芯车床  
LATHE AXIS CORE



全自动成品组装机  
FULLY AUTOMATIC FINISHED PRODUCT  
ASSEMBLY MACHINE



立式注塑机  
VERTICAL INJECTION MOLDING MACHINE





Fisher X-ray Coating  
Thickness Gauge  
菲希尔 X射线镀层测厚仪



TIANRUI RoHS TESTER  
天瑞ROHS检测仪



TWO-DIMENSIONAL  
二次元



LIFE TESTER  
寿命测试仪



PROJECTOR  
投影仪



HARDNESS TESTER  
硬度测试仪



SWITCH LOAD TESTER  
开关荷重测试仪



CONSTANT TEMPERATURE  
AND HUMIDITY MACHINE  
恒温恒湿机



SALT SPRAY TESTER  
盐雾测试仪



THERMAL SHOCK  
冷热冲击

## COMPLETE PRODUCT SPECIFICATIONS SUPPORT CUSTOMIZATION



[www.taowaves.com](http://www.taowaves.com)

### FQA:

#### 1.What are the advantages of your factory?

Our factory has mold manufacturing workshop, plastic injection molding workshop and lathe center. 80% of the raw materials are supplied by ourselves to ensure that the quality and delivery speed are higher than those of our peers.

#### 2.Do you support customization?

Yes, customization is supported, we need you to provide drawings, usage and requirements.

#### 3.What is your shipping port and the term of payment ?

Ex-work or FOB Shenzhen.

30% paid in advance, 70% balance before shipment by T/T.(First transaction requires 100% payment in advance.)

#### 4.How long is your lead time?

It will take 3workdays for samples,7-15workdays for mass production.

5.Can I get samples from you?

Small amount of samples can be provided for free, but customers need to pay for air freight themselves.

6.What's your MOQ ?

Our MOQ is 2K. If it is a small batch order, the price needs to be increased appropriately.



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