

**NEW!**

# RB Series Rolling Ball Sensor Switch

## Features/Benefits

- Different angle options to trigger
- Ultra miniature design
- Patent awarded

## Typical Applications

- Household goods
- Electronic toys
- Consumer electronics including irons, portable heaters, games, toys
- Safety and security controls

## Specifications

CONTACT ARRANGEMENT: SPST

SENSOR ANGLE: 0° to -10° scope inside, terminal to disconnection electric current

MINIMUM VOLTAGE: 1 VDC 10mA (resistive load)

MAXIMUM VOLTAGE: 5 VDC 1mA (resistive load)

OPERATING LIFE: 100,000 cycles

INSULATION RESISTANCE: 1000 M  $\Omega$  min. @ 100 VDC

DIELECTRIC STRENGTH: 500 V AC (50-60 Hz)

OPERATING TEMPERATURE: -20°C to +70°C

## Materials

FRAME: Copper alloy, nickel plated

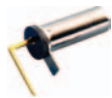
COVER: PA 46 (UL94V-0).

MOVABLE CONTACT: Copper alloy, nickel plated

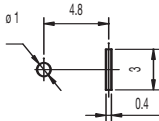
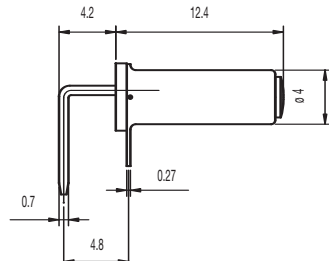
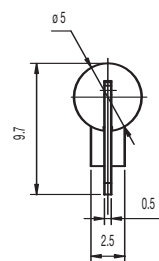
TERMINALS: Copper alloy, gold plated

BRASS BALL: Brass, nickel plated

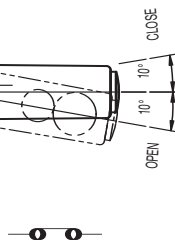
**NOTE:** Specifications and materials listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center.



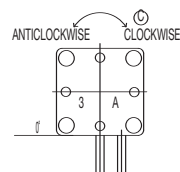
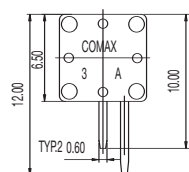
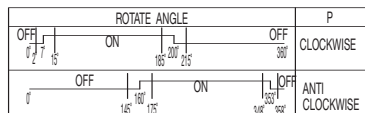
| PART NUMBER     | PACKAGING    |
|-----------------|--------------|
| <b>RB-231X2</b> | 1,000 pieces |



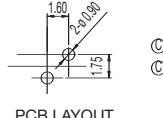
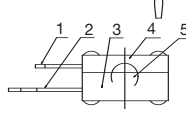
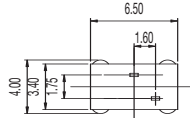
PCB LAYOUT



| PART NUMBER        | PACKAGING  |
|--------------------|------------|
| <b>RB-220-07 R</b> | 500 pieces |



1P-1T



PCB LAYOUT

## Specifications

CONTACT ARRANGEMENT: SPST

SENSOR ANGLE: 15° to 90° scope inside, terminal to disconnection electric current

MINIMUM VOLTAGE: 1 VDC 10mA (resistive load)

MAXIMUM VOLTAGE: 5 VDC 1mA (resistive load)

OPERATING LIFE: 20,000 cycles (without load);  
100,000 cycles with load

INSULATION RESISTANCE: 10 M  $\Omega$  min. @ 100 VDC

DIELECTRIC STRENGTH: 100 V AC (50-60Hz)

OPERATING TEMPERATURE: -10°C to +50°C

## Materials

HOUSING: PA

COVER: PA

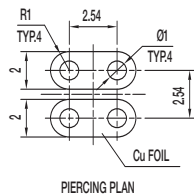
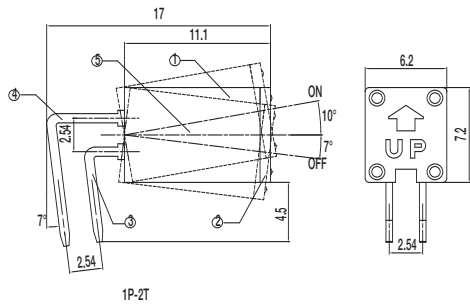
BALL: Gold plated

**NOTE:** Specifications and materials listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center.

# RB Series Rolling Ball Sensor Switch

**NEW!**

| PART NUMBER    | PACKAGING  |
|----------------|------------|
| <b>RB-435B</b> | 500 pieces |



## Specifications

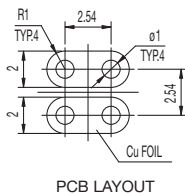
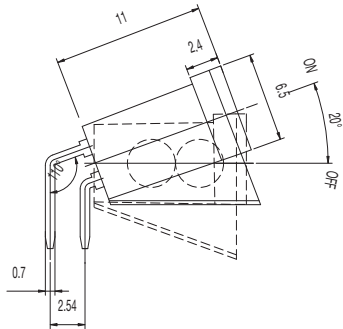
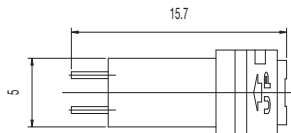
CONTACT ARRANGEMENT: SPDT  
 MINIMUM VOLTAGE: 1 VDC 10mA (resistive load)  
 MAXIMUM VOLTAGE: 5 VDC 1mA (resistive load)  
 OPERATING LIFE: 100,000 cycles  
 INITIAL CONTACT RESISTANCE: 5  $\Omega$  max.  
 INSULATION RESISTANCE: 1000 M  $\Omega$  min. @ 500 VDC  
 DIELECTRIC STRENGTH: 500 V AC (50-60 Hz)  
 OPERATING TEMPERATURE: -20°C to +70°C

## Materials

HOUSING: PA (UL94V-0)  
 COVER: PA (UL94V-0)  
 MOVABLE CONTACT: Copper alloy, nickel plated  
 TERMINALS: Gold plated  
 BALL: Steel, gold plated

**NOTE:** Specifications and materials listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center.

| PART NUMBER        | PACKAGING  |
|--------------------|------------|
| <b>RB-435X2-20</b> | 500 pieces |



## Specifications

CONTACT ARRANGEMENT: SPDT  
 SENSOR ANGLE: -20° to -30° scope inside, terminal to disconnection electric current  
 MINIMUM VOLTAGE: 1 VDC 10mA (resistive load)  
 MAXIMUM VOLTAGE: 5 VDC 1mA (resistive load)  
 OPERATING LIFE: 100,000 cycles  
 INSULATION RESISTANCE: 1000 M  $\Omega$  min. @ 100 VDC  
 DIELECTRIC STRENGTH: 500 V AC (50-60 Hz)  
 OPERATING TEMPERATURE: -20°C to +70°C

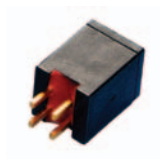
## Materials

HOUSING: PBT (UL94V-0)  
 COVER: PBT (UL94V-0)  
 TERMINALS: Gold plated  
 BALL: Steel, gold plated

**NOTE:** Specifications and materials listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center.

**NEW!**

## RB Series Rolling Ball Sensor Switch



| PART NUMBER      | PACKAGING  |
|------------------|------------|
| <b>RB-441-45</b> | 500 pieces |

### Specifications

CONTACT ARRANGEMENT: SPDT

MAXIMUM VOLTAGE: 24 VDC 25mA (resistive load)

OPERATING LIFE: 100,000 cycles

INSULATION RESISTANCE: 1000 M  $\Omega$  min. @ 100 VDC

DIELECTRIC STRENGTH: 500 V AC (50-60 Hz)

OPERATING TEMPERATURE: -20°C to +70°C

### Materials

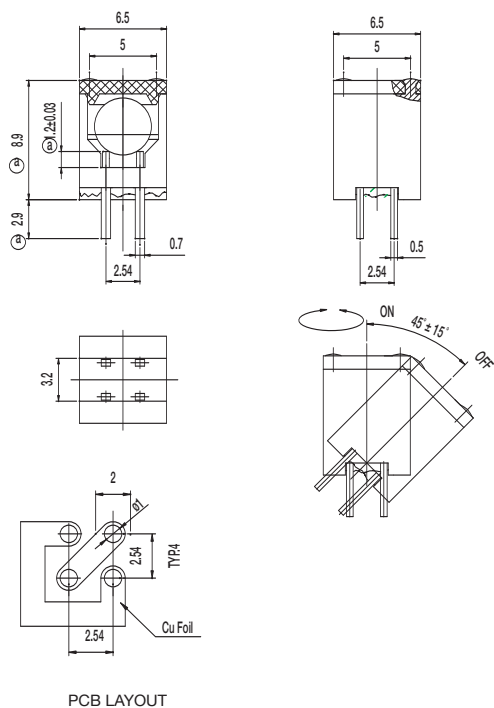
HOUSING: PBT (UL94V-0)

COVER: PBT (UL94V-0)

TERMINALS: Gold plated

BALL: Gold plated

**NOTE:** Specifications and materials listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center.



PCB LAYOUT



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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**Факс:** 8 (812) 320-02-42

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