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 iron, 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 MΩ min. @ 100 VDC
DIELECTRIC STRENGTH: 500 V AC (50-60 Hz)
OPERATING TEMPERATURE: –20ºC to +70ºC

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, gold plated

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 MΩ min. @ 100 VDC
DIELECTRIC STRENGTH: 100 V AC (50-60Hz)
OPERATING TEMPERATURE: –10ºC to +50ºC

Materials
HOUSING: PA
COVER: PA
BALL: Gold plated

Dimensions are shown: mm
Specifications and dimensions subject to change

www.ckswitches.com

Detect
21 Nov 18
RB Series
Rolling Ball Sensor Switch

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 Ω max.
INSULATION RESISTANCE: 1000 MΩ min. @ 500 VDC
DIELECTRIC STRENGTH: 500 V AC (50-60 Hz)
OPERATING TEMPERATURE: –20ºC to +70ºC

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

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 MΩ min. @ 100 VDC
DIELECTRIC STRENGTH: 500 V AC (50-60 Hz)
OPERATING TEMPERATURE: –20ºC to +70ºC

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

PART NUMBER PACKAGING

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PART NUMBER PACKAGING

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Dimensions are shown: mm
Specifications and dimensions subject to change

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Specifications
- CONTACT ARRANGEMENT: SPDT
- MAXIMUM VOLTAGE: 24 VDC 25mA (resistive load)
- OPERATING LIFE: 100,000 cycles
- INSULATION RESISTANCE: 1000 MΩ 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

Dimensions are shown: mm
Specifications and dimensions subject to change

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