

## Rocker Switch R4 Series



### SPECIFICATION

- Electrical Rating : 20A 125VAC/16A 250VAC(UL)  
10A/15A/16A 250VAC(VDE)  
10A 250VAC/15A 125VAC(UL)
- Mechanical life: Over 30000 cycles
- Electrical life: Over 10000 cycles
- Contact resistance: <20mΩ
- Insulation resistance: >1000MΩ
- High voltage resistance: >1500V 1 min.
- Ambient temperature: Terminal side -20 to +85°C  
Actuating side -20 to +55°C
- Storage temperature: -30 to +80°C Max
- Atmospheric humidity: Max.85%
- Actuating force: 4~8N(depends on different switch function)
- Flammability: UL94 V-2
- Temperature rise at the terminal: Max 30°C (UL1054)
- Solder ability of terminal: Max 350°C, 3s

### MATERIALS

- Housing: Nylon 66
- Rocker: PC & PA66
- Contacts: Silver Alloy
- Terminal: Brass Silver Plated
- Lamp: Neon Lamp, Tungsten Lamp
- Spring: SWP, SUS
- Movable Arm: Brass Silver Plated

### HOW TO ORDER

**R4 1 5 K K E T 0 F A**

| Series   | Switch Function          | Rating | Housing Color | Actuator Color | Marking | Terminal Type | Lamp Voltage | Safety Approval |   |   |        |  |   |            |   |                          |  |   |      |   |       |   |       |   |   |              |   |             |   |           |   |            |   |               |                       |  |   |              |   |         |   |         |   |        |   |        |  |   |                    |   |               |
|--|--------------------------|--------|---------------|----------------|---------|---------------|--------------|-----------------|---|---|--------|--|---|------------|---|--------------------------|--|---|------|---|-------|---|-------|---|---|--------------|---|-------------|---|-----------|---|------------|---|---------------|-----------------------|--|---|--------------|---|---------|---|---------|---|--------|---|--------|--|---|--------------------|---|---------------|
| <table border="1"> <tr><td>Series</td></tr> <tr><td>1</td></tr> <tr><td>2</td></tr> <tr><td>3</td></tr> <tr><td>4</td></tr> <tr><td>5</td></tr> <tr><td>6</td></tr> <tr><td>7</td></tr> <tr><td>8</td></tr> <tr><td>9</td></tr> </table> | Series                   | 1      | 2             | 3              | 4       | 5             | 6            | 7               | 8 | 9 | ON-OFF | <table border="1"> <tr><td>2</td><td>10A 250VAC</td></tr> <tr><td>5</td><td>16A 250VAC<br/>20A 125VAC</td></tr> </table> | 2 | 10A 250VAC | 5 | 16A 250VAC<br>20A 125VAC | <table border="1"> <tr><td>G</td><td>Gray</td></tr> <tr><td>W</td><td>White</td></tr> <tr><td>K</td><td>Black</td></tr> </table> | G | Gray | W | White | K | Black | <table border="1"> <tr><td>Y</td><td>Yellow(III.)</td></tr> <tr><td>M</td><td>Green(III.)</td></tr> <tr><td>D</td><td>Red(III.)</td></tr> <tr><td>F</td><td>Blue(III.)</td></tr> <tr><td>T</td><td>White Crystal</td></tr> </table> | Y | Yellow(III.) | M | Green(III.) | D | Red(III.) | F | Blue(III.) | T | White Crystal | See option of marking | <table border="1"> <tr><td>0</td><td>Without Lamp</td></tr> <tr><td>1</td><td>125V AC</td></tr> <tr><td>2</td><td>250V AC</td></tr> <tr><td>3</td><td>12 VDC</td></tr> <tr><td>4</td><td>24 VDC</td></tr> </table> | 0 | Without Lamp | 1 | 125V AC | 2 | 250V AC | 3 | 12 VDC | 4 | 24 VDC | <table border="1"> <tr><td>F</td><td>4 Safety Approvals</td></tr> <tr><td>E</td><td>None Approval</td></tr> </table> | F | 4 Safety Approvals | E | None Approval |
|  | Series                   |        |               |                |         |               |              |                 |   |   |        |  |   |            |   |                          |  |   |      |   |       |   |       |   |   |              |   |             |   |           |   |            |   |               |                       |  |   |              |   |         |   |         |   |        |   |        |  |   |                    |   |               |
|  | 1                        |        |               |                |         |               |              |                 |   |   |        |  |   |            |   |                          |  |   |      |   |       |   |       |   |   |              |   |             |   |           |   |            |   |               |                       |  |   |              |   |         |   |         |   |        |   |        |  |   |                    |   |               |
|  | 2                        |        |               |                |         |               |              |                 |   |   |        |  |   |            |   |                          |  |   |      |   |       |   |       |   |   |              |   |             |   |           |   |            |   |               |                       |  |   |              |   |         |   |         |   |        |   |        |  |   |                    |   |               |
|  | 3                        |        |               |                |         |               |              |                 |   |   |        |  |   |            |   |                          |  |   |      |   |       |   |       |   |   |              |   |             |   |           |   |            |   |               |                       |  |   |              |   |         |   |         |   |        |   |        |  |   |                    |   |               |
|  | 4                        |        |               |                |         |               |              |                 |   |   |        |  |   |            |   |                          |  |   |      |   |       |   |       |   |   |              |   |             |   |           |   |            |   |               |                       |  |   |              |   |         |   |         |   |        |   |        |  |   |                    |   |               |
|  | 5                        |        |               |                |         |               |              |                 |   |   |        |  |   |            |   |                          |  |   |      |   |       |   |       |   |   |              |   |             |   |           |   |            |   |               |                       |  |   |              |   |         |   |         |   |        |   |        |  |   |                    |   |               |
|  | 6                        |        |               |                |         |               |              |                 |   |   |        |  |   |            |   |                          |  |   |      |   |       |   |       |   |   |              |   |             |   |           |   |            |   |               |                       |  |   |              |   |         |   |         |   |        |   |        |  |   |                    |   |               |
|  | 7                        |        |               |                |         |               |              |                 |   |   |        |  |   |            |   |                          |  |   |      |   |       |   |       |   |   |              |   |             |   |           |   |            |   |               |                       |  |   |              |   |         |   |         |   |        |   |        |  |   |                    |   |               |
| 8  |                          |        |               |                |         |               |              |                 |   |   |        |  |   |            |   |                          |  |   |      |   |       |   |       |   |   |              |   |             |   |           |   |            |   |               |                       |  |   |              |   |         |   |         |   |        |   |        |  |   |                    |   |               |
| 9  |                          |        |               |                |         |               |              |                 |   |   |        |  |   |            |   |                          |  |   |      |   |       |   |       |   |   |              |   |             |   |           |   |            |   |               |                       |  |   |              |   |         |   |         |   |        |   |        |  |   |                    |   |               |
| 2  | 10A 250VAC               |        |               |                |         |               |              |                 |   |   |        |  |   |            |   |                          |  |   |      |   |       |   |       |   |   |              |   |             |   |           |   |            |   |               |                       |  |   |              |   |         |   |         |   |        |   |        |  |   |                    |   |               |
| 5  | 16A 250VAC<br>20A 125VAC |        |               |                |         |               |              |                 |   |   |        |  |   |            |   |                          |  |   |      |   |       |   |       |   |   |              |   |             |   |           |   |            |   |               |                       |  |   |              |   |         |   |         |   |        |   |        |  |   |                    |   |               |
| G  | Gray                     |        |               |                |         |               |              |                 |   |   |        |  |   |            |   |                          |  |   |      |   |       |   |       |   |   |              |   |             |   |           |   |            |   |               |                       |  |   |              |   |         |   |         |   |        |   |        |  |   |                    |   |               |
| W  | White                    |        |               |                |         |               |              |                 |   |   |        |  |   |            |   |                          |  |   |      |   |       |   |       |   |   |              |   |             |   |           |   |            |   |               |                       |  |   |              |   |         |   |         |   |        |   |        |  |   |                    |   |               |
| K  | Black                    |        |               |                |         |               |              |                 |   |   |        |  |   |            |   |                          |  |   |      |   |       |   |       |   |   |              |   |             |   |           |   |            |   |               |                       |  |   |              |   |         |   |         |   |        |   |        |  |   |                    |   |               |
| Y  | Yellow(III.)             |        |               |                |         |               |              |                 |   |   |        |  |   |            |   |                          |  |   |      |   |       |   |       |   |   |              |   |             |   |           |   |            |   |               |                       |  |   |              |   |         |   |         |   |        |   |        |  |   |                    |   |               |
| M  | Green(III.)              |        |               |                |         |               |              |                 |   |   |        |  |   |            |   |                          |  |   |      |   |       |   |       |   |   |              |   |             |   |           |   |            |   |               |                       |  |   |              |   |         |   |         |   |        |   |        |  |   |                    |   |               |
| D  | Red(III.)                |        |               |                |         |               |              |                 |   |   |        |  |   |            |   |                          |  |   |      |   |       |   |       |   |   |              |   |             |   |           |   |            |   |               |                       |  |   |              |   |         |   |         |   |        |   |        |  |   |                    |   |               |
| F  | Blue(III.)               |        |               |                |         |               |              |                 |   |   |        |  |   |            |   |                          |  |   |      |   |       |   |       |   |   |              |   |             |   |           |   |            |   |               |                       |  |   |              |   |         |   |         |   |        |   |        |  |   |                    |   |               |
| T  | White Crystal            |        |               |                |         |               |              |                 |   |   |        |  |   |            |   |                          |  |   |      |   |       |   |       |   |   |              |   |             |   |           |   |            |   |               |                       |  |   |              |   |         |   |         |   |        |   |        |  |   |                    |   |               |
| 0  | Without Lamp             |        |               |                |         |               |              |                 |   |   |        |  |   |            |   |                          |  |   |      |   |       |   |       |   |   |              |   |             |   |           |   |            |   |               |                       |  |   |              |   |         |   |         |   |        |   |        |  |   |                    |   |               |
| 1  | 125V AC                  |        |               |                |         |               |              |                 |   |   |        |  |   |            |   |                          |  |   |      |   |       |   |       |   |   |              |   |             |   |           |   |            |   |               |                       |  |   |              |   |         |   |         |   |        |   |        |  |   |                    |   |               |
| 2  | 250V AC                  |        |               |                |         |               |              |                 |   |   |        |  |   |            |   |                          |  |   |      |   |       |   |       |   |   |              |   |             |   |           |   |            |   |               |                       |  |   |              |   |         |   |         |   |        |   |        |  |   |                    |   |               |
| 3  | 12 VDC                   |        |               |                |         |               |              |                 |   |   |        |  |   |            |   |                          |  |   |      |   |       |   |       |   |   |              |   |             |   |           |   |            |   |               |                       |  |   |              |   |         |   |         |   |        |   |        |  |   |                    |   |               |
| 4  | 24 VDC                   |        |               |                |         |               |              |                 |   |   |        |  |   |            |   |                          |  |   |      |   |       |   |       |   |   |              |   |             |   |           |   |            |   |               |                       |  |   |              |   |         |   |         |   |        |   |        |  |   |                    |   |               |
| F  | 4 Safety Approvals       |        |               |                |         |               |              |                 |   |   |        |  |   |            |   |                          |  |   |      |   |       |   |       |   |   |              |   |             |   |           |   |            |   |               |                       |  |   |              |   |         |   |         |   |        |   |        |  |   |                    |   |               |
| E  | None Approval            |        |               |                |         |               |              |                 |   |   |        |  |   |            |   |                          |  |   |      |   |       |   |       |   |   |              |   |             |   |           |   |            |   |               |                       |  |   |              |   |         |   |         |   |        |   |        |  |   |                    |   |               |
| ON-ON  |                          |        |               |                |         |               |              |                 |   |   |        |  |   |            |   |                          |  |   |      |   |       |   |       |   |   |              |   |             |   |           |   |            |   |               |                       |  |   |              |   |         |   |         |   |        |   |        |  |   |                    |   |               |
| ON-OFF-ON  |                          |        |               |                |         |               |              |                 |   |   |        |  |   |            |   |                          |  |   |      |   |       |   |       |   |   |              |   |             |   |           |   |            |   |               |                       |  |   |              |   |         |   |         |   |        |   |        |  |   |                    |   |               |
| ON-(ON)  |                          |        |               |                |         |               |              |                 |   |   |        |  |   |            |   |                          |  |   |      |   |       |   |       |   |   |              |   |             |   |           |   |            |   |               |                       |  |   |              |   |         |   |         |   |        |   |        |  |   |                    |   |               |
| OFF-(ON)   |                          |        |               |                |         |               |              |                 |   |   |        |  |   |            |   |                          |  |   |      |   |       |   |       |   |   |              |   |             |   |           |   |            |   |               |                       |  |   |              |   |         |   |         |   |        |   |        |  |   |                    |   |               |
| (ON)-OFF-(ON)  |                          |        |               |                |         |               |              |                 |   |   |        |  |   |            |   |                          |  |   |      |   |       |   |       |   |   |              |   |             |   |           |   |            |   |               |                       |  |   |              |   |         |   |         |   |        |   |        |  |   |                    |   |               |
| ON-(OFF)   |                          |        |               |                |         |               |              |                 |   |   |        |  |   |            |   |                          |  |   |      |   |       |   |       |   |   |              |   |             |   |           |   |            |   |               |                       |  |   |              |   |         |   |         |   |        |   |        |  |   |                    |   |               |
| ON-OFF-(ON)  |                          |        |               |                |         |               |              |                 |   |   |        |  |   |            |   |                          |  |   |      |   |       |   |       |   |   |              |   |             |   |           |   |            |   |               |                       |  |   |              |   |         |   |         |   |        |   |        |  |   |                    |   |               |
| ON-OFF (With Lamp)   |                          |        |               |                |         |               |              |                 |   |   |        |  |   |            |   |                          |  |   |      |   |       |   |       |   |   |              |   |             |   |           |   |            |   |               |                       |  |   |              |   |         |   |         |   |        |   |        |  |   |                    |   |               |

R4/32/62/82  
10A 250VAC  
15A 125VAC(UL)

Quick Connect  
Tab

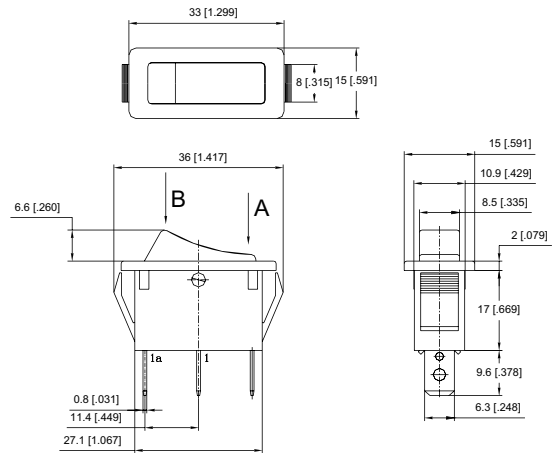
## Rocker Switch R4 Series



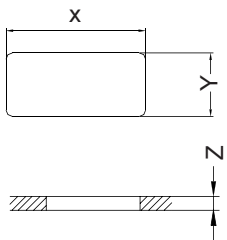
### Option of switch function

| Item NO | POLES & THROWS     | Rocker position ( ):Momentary |        |       |
|---------|--------------------|-------------------------------|--------|-------|
|         |                    | Left                          | Center | Right |
| R41     | SPST               | ON                            | None   | OFF   |
| R42     | SPDT               | ON                            | None   | ON    |
| R43     | SPDT               | ON                            | OFF    | ON    |
| R44     | SPDT               | ON                            | None   | (ON)  |
| R45     | SPST               | OFF                           | None   | (ON)  |
| R46     | SPDT               | (ON)                          | OFF    | (ON)  |
| R47     | SPST               | ON                            | None   | (OFF) |
| R48     | SPDT               | ON                            | OFF    | (ON)  |
| R49     | SPST<br>(WITHLAMP) | ON                            | None   | OFF   |

### Dimension



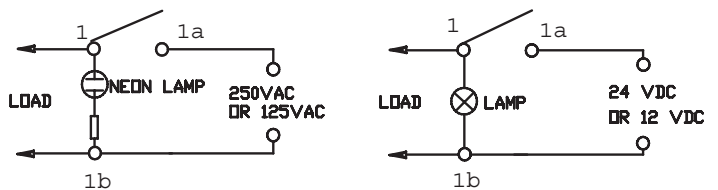
### Panel cut out


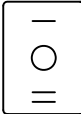
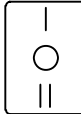


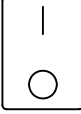
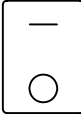
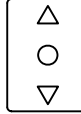

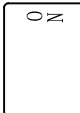
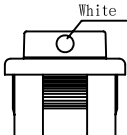
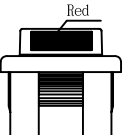

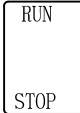
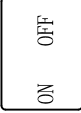

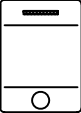
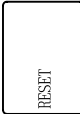
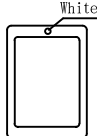
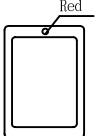
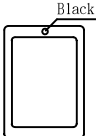
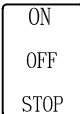

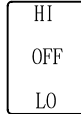

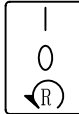
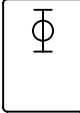





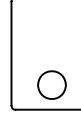

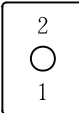


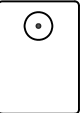
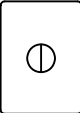
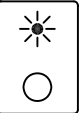
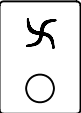


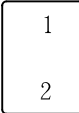


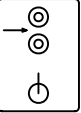
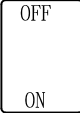
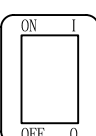
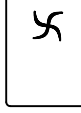

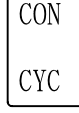

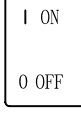
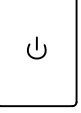
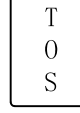
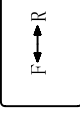



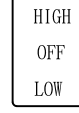


| Z         | Y           | X           |
|-----------|-------------|-------------|
| 0.70~1.25 | 11.10~11.20 | 29.60~29.70 |
| 1.25~2.00 | 11.10~11.20 | 30.10~30.20 |
| 2.00~3.00 | 11.10~11.20 | 30.45~30.55 |

### Circuits for switch with lamp

- For circuits of 250V AC or 125V AC
- For circuits of 24V DC or 12V DC



|   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|
| <br>A    | <br>B    | <br>C    | <br>D    | <br>E    | <br>F    | <br>G    | <br>H    | <br>I    |
| <br>J    | <br>K    | <br>L    | <br>M    | <br>N    | <br>O    | <br>P    | <br>Q    |   |
| <br>S    | <br>T    | <br>U    | <br>V    | <br>W    | <br>X   | <br>Y    | <br>Z    | <br>1A   |
| <br>1B | <br>1C | <br>1D | <br>1E | <br>1F | <br>1G | <br>1H | <br>1I | <br>1J |
| <br>1K | <br>1L | <br>1M | <br>1N | <br>1O | <br>1P | <br>1Q | <br>1R | <br>1S |
| <br>1T | <br>1U | <br>1V | <br>1W |   | <br>1Y | <br>1Z | <br>2A | <br>2B |
| <br>2C | <br>2D | <br>2E | <br>2F | <br>2G | <br>2H | <br>2I | <br>2J | <br>2K |