



# Multi Control Devices

## List of Varieties

| Type  |                             | Potentiometer type   |                      |   |                                   |
|---|-----------------------------|--|----------------------|---|-----------------------------------|
| Series  |                             | RKJXK  | RKJXV                | RKJXY   | RKJXU                             |
| Photo   |                             |  |                      |   |                                   |
| Dimensions (typical value) (mm)                 | W                           | 20.7   | 17.8                 | 19.6  | 18.6                              |
|   | D                           | 25.4   | 21.3                 | 18.1  | 24.3                              |
|   | H                           | 12.9   | 11.2                 | 4.9   | 5.2                               |
| Number of operating shafts                      |                             | Single-shaft   |                      |   |                                   |
| Shaft material                                  |                             | Metal  | Resin                |   |                                   |
| Directional resolution                          |                             | Continuous   |                      |   |                                   |
| Directional operating feeling (tactile feeling) |                             | Without  |                      |   |                                   |
| Lever return mechanism                          |                             | With / Without   | With                 |   |                                   |
| Center-push switch                              |                             | With / Without   |                      | Without   |                                   |
| Encoder   |                             | Without  |                      |   |                                   |
| Operating temperature range                     |                             | -10°C to +70°C   |                      |   |                                   |
| Operating life                                  | Directional operation       | 100,000 cycles   | 2,000,000 cycles     | 1,000,000 cycles  | 2,000,000 cycles                  |
|   | Center-push                 | 100,000 cycles   | 500,000 cycles       | —   | —                                 |
| Automotive use                                  |                             | —  | —                    | —   | —                                 |
| Life cycle (availability)                       |                             |  |                      |   |                                   |
| Electrical performance                          | Insulation resistance       | 100MΩ min. 250V DC   |                      | —   | —                                 |
|   | Voltage proof               | 250V AC for 1 minute   |                      | —   | —                                 |
|   | Slider noise                | 300mV p-p max. by JIS method   |                      |   |                                   |
| Mechanical performance                          | Directional operating force | 8mN·m max. Without Lever return mechanism<br>6±4mN·m With Lever return mechanism | 14±10mN·m            | With knob type 0.43±0.25N<br>(3.33±2.0mN·m)<br>Without knob type 3.33±2.0mN·m | 0.75±0.3N                         |
|   | Push operating force        | 5.2±2.6N   | 7.4±3N               | —   | —                                 |
|   | Lever return precision      | ±5°  |                      |   | ±0.1mm                            |
|   | Actuator strength           | Push / pull directions<br>Operating direction                                    | 50N min. (Push/Pull) | 98N min. (Push), 50N min. (Pull)  | 100N min. (Push), 49N min. (Pull) |
| 0.3N·m  |                             |  | —                    | 50N   |                                   |
| Environmental performance                       | Cold                        | -30°C 96h  |                      |   |                                   |
|   | Dry heat                    | 80°C 96h   |                      |   |                                   |
|   | Damp heat                   | 60°C, 90 to 95%RH 96h  |                      |   |                                   |
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\*Products marked with a are not recommended for new designs