


















# Index for Function

## Sharp Feeling Type

| Type    | Series  | Features  | Operating direction              |            | Dimensions (mm) |      |      | Operation force coverage |  | Ground terminal | Lead-free ※1 | Page       | Minimum packing unit |     |
|---------|---|---|----------------------------------|------------|-----------------|------|------|--------------------------|--|-----------------|--------------|------------|----------------------|-----|
|         |   |   | Vertical                         | Horizontal | W               | D    | H    | 1N                       | 5N   |                 |              |            |                      |     |
| Snap-in | SKHR  |    | ●                                | —          | □4.5            |      | 3.8  | ↔                        | —  | ●               | 329          | 1,000 pcs. |                      |     |
|         | SKHL  |    | ●                                | —          | 6               | 3.5  | 4.3  | ↔                        | —  | ●               | 330          |            |                      |     |
|         | SKHH  |    | ●                                | —          | □6              |      | 4.3  | ↔                        | ●  | ●               | 332          |            |                      |     |
|         | SKHW  |    | Dust-proof type                  | ●          | —               | □6   |      | 4.3                      | ↔  | ●               | ●            |            | 336                  |     |
|         | SKRD  |    | Side-push type                   | —          | ●               | 6.2  | 7.15 | 7.4                      | ↔  | —               | ●            |            | 337                  |     |
|         | SKQJ  |    | Dust-proof type                  | ●          | —               | □6.6 |      | 5                        | ↔  | —               | ●            |            | 338                  |     |
|         | SKHL  |   | Side-push type                   | —          | ●               | 7.3  | 7.22 | 4.3                      | ↔  | —               | ●            |            | 330                  |     |
|         | SKHH  |  | Side-push type                   | —          | ●               | 7.5  | 7.85 | 7.4                      | ↔  | ●               | ●            |            | 332                  |     |
|         | SKQJ  |  | Dust-proof Side-push type        | —          | ●               | 7.5  | 7.85 | 7.3                      | ↔  | —               | ●            |            | 338                  |     |
|         | SKHJ  |  | Built-in LED                     | ●          | —               | □8   |      | 8.5                      | ↔  | —               | ●            |            | 340                  |     |
|         | SKQV  |  | 2 story type (Dual)              | —          | ●               | 8.4  | 8.1  | 16                       | ↔  | ●               | ●            |            | 342                  |     |
|         | SKQB  |  | Water-proof                      | ●          | —               | □10  |      | 5                        | ↔  | —               | ●            |            | 343                  |     |
|         | SKQU  |  | 4-direction switch + Push switch | ●          | —               | □10  |      | 7.1                      | See the relevant pages for respective product descriptions |                 | —            |            | ●                    | 370 |
|         | SKQB  |  | Water-proof Side-push type       | —          | ●               | 11.5 | 11.9 | 11.3                     | ↔  | —               | ●            |            | 343                  |     |
|         | SKQE  |  | Long Life                        | ●          | —               | □12  |      | 4.3                      | ↔  | —               | ●            |            | 346                  |     |
| SKHC    |  |   | ●                                | —          | □12             |      | 4.3  | ↔                        | —  | ●               | 347          |            |                      |     |
| SKHK    |  | Long Stem   | ●                                | —          | □12             |      | 12   | ↔                        | —  | ●               | 349          |            |                      |     |

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





Snap-in Type

Surface Mount Type

Radial Type










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### Sharp Feeling Type

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|---------------------------|------|--------|---|---------------------|------------|-----------------|------|------|--------------------------|----|-----------------|--------------|------|----------------------|
|                           |      |        |   | Vertical            | Horizontal | W               | D    | H    | 1N                       | 5N |                 |              |      |                      |
| Power                     |      | SKRK   |    | ●                   | —          | 3.9             | 2.9  | 1.5  | ↔                        | —  | ●               | 350          |      |                      |
| Push                      |      | SKRE   |    | —                   | ●          | 3.9             | 3.55 | 1.5  | ↔                        | —  | ●               | 351          |      |                      |
| Slide                     |      | SKQL   |    | —                   | ●          | 4               | 7.4  | 1.8  | ↔                        | —  | ●               | 352          |      |                      |
| Rotary                    |      | SKRP   |    | ●                   | —          | 4.2             | 3.2  | 2.5  | ↔                        | —  | ●               | 353          |      |                      |
| Encoders                  |      | SKRT   |    | —                   | ●          | 4.5             | 3.55 | 3.3  | ↔                        | ●  | ●               | 354          |      |                      |
| Jog Shuttle               |      | SKRM   |    | ●                   | —          | □4.5            |      | 0.4  | ↔                        | —  | ●               | 355          |      |                      |
| Telephone-hook            |      | SKQR   |    | ●                   | —          | □4.8            |      | 0.5  | ↔                        | —  | ●               | 356          |      |                      |
| Detector                  |      | SKRB   |  | ●                   | —          | □4.8            |      | 0.55 | ↔                        | —  | ●               | 357          |      |                      |
| Vibration/Tilt Sensors    |      | SKQG   |  | ●                   | —          | □5.2            |      | 0.8  | ↔                        | —  | ●               | 358          |      |                      |
| Dual-in-line Package Type |      | SKQM   |  | ●                   | —          | 6               | 3.5  | 4.3  | ↔                        | —  | ●               | 360          | ※2   |                      |
| Multi Control Devices     |      | SKRN   |  | ●                   | —          | □6              |      | 0.9  | ↔                        | ●  | ●               | 361          |      |                      |
| <b>TACT</b>               |      | SKQY   |  | ●                   | —          | 6.1             | 3.7  | 2.5  | ↔                        | ●  | ●               | 362          |      |                      |
| Sharp Feeling             |      | SKRA   |  | ●                   | —          | □6.2            |      | 3.4  | ↔                        | —  | ●               | 363          |      |                      |
| Soft Feeling              |      | SKHM   |  | ●                   | —          | 6.2             | 6.5  | 3.1  | ↔                        | ●  | ●               | 364          |      |                      |
| Snap-in Type              |      | SKHU   |  | ●                   | —          | 6.2             | 6.5  | 2.5  | ↔                        | ●  | ●               | 365          |      |                      |
| Surface Mount Type        |      | SKQT   |  | —                   | ●          | 6.9             |      | 3.5  | ↔                        | ●  | ●               | 367          |      |                      |
| Radial Type               |      | SKRH   |  | ●                   | —          | 7.35            | 7.5  | 5    | ↔                        | ●  | ●               | 368          |      |                      |
|                           |      | SKRR   |  | ●                   | —          | 7.5             | 7    | 0.6  | ↔                        | —  | ●               | 369          |      |                      |
|                           |      | SKQU   |  | ●                   | —          | □10             |      | 7.1  | ↔                        | —  | ●               | 370          |      |                      |

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## Sharp Feeling Type

| Type   | Series | Features  | Operating direction           |            | Dimensions (mm) |      |      | Operation force coverage |    | Ground terminal | Lead-free ※1 | Page | Minimum packing unit |
|--------|--------|---|-------------------------------|------------|-----------------|------|------|--------------------------|----|-----------------|--------------|------|----------------------|
|        |        |   | Vertical                      | Horizontal | W               | D    | H    | 1N                       | 5N |                 |              |      |                      |
| Radial | SKQC   |    | ●                             | —          | 6               | 3.5  | 4.3  | ↔                        | —  | ●               | 373          | ※2   |                      |
|        | SKQN   |    | ●                             | —          | ø6              |      | 4.3  | ↔                        | —  | ●               | 374          |      |                      |
|        | SKHV   |    | ●                             | —          | □6              |      | 4.3  | ↔                        | ●  | ●               | 376          |      |                      |
|        | SKRG   |    | Round terminal type           | ●          | —               | ø6.2 |      | 4.3                      | ↔  | —               | ●            |      | 378                  |
|        | SKRS   |    | Side-push type                | —          | ●               | 6.2  | 9.25 | 7.3                      | ↔  | —               | ●            |      | 379                  |
|        | SKQK   |    | Dust-proof type               | ●          | —               | □6.6 |      | 5                        | ↔  | —               | ●            |      | 380                  |
|        | SKQN   |   | Round terminal Side-push type | —          | ●               | 7.3  | 6.85 | 7.1                      | ↔  | —               | ●            |      | 374                  |
|        | SKQW   |  | 2 story type (Dual)           | —          | ●               | 8.4  | 8.75 | 19.5                     | ↔  | ●               | ●            |      | 381                  |
|        | SKRC   |  | Water-proof                   | ●          | —               | ø9   |      | 13                       | ↔  | —               | ●            |      | 382                  |

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## Soft Feeling Type

| Type    | Series | Features  | Operating direction             |            | Dimensions (mm) |     |     | Contact | Operation force coverage |    | Lead-free ※1 | Page       | Minimum packing unit |
|---------|--------|---|---------------------------------|------------|-----------------|-----|-----|---------|--------------------------|----|--------------|------------|----------------------|
|         |        |   | Vertical                        | Horizontal | W               | D   | H   |         | 1N                       | 5N |              |            |                      |
| snap-in | SKEG   |  | ●                               | —          | □6              |     | 7   | Carbon  | ↔                        | ●  | 384          | 1,000 pcs. |                      |
|         | SKPC   |  | ●                               | —          | □6              |     | 7   | Carbon  | ↔                        | ●  | 386          |            |                      |
|         | SKPE   |  | ●                               | —          | 6.6             | 6.3 | 5   | Carbon  | ↔                        | ●  | 387          |            |                      |
|         | SKEG   |  | Side-push type                  | —          | ●               | 7.5 | 9.9 | 7.3     | Carbon                   | ↔  | ●            |            | 384                  |
|         | SKEY   |  | ●                               | —          | □7.8            |     | 5   | Carbon  | ↔                        | ●  | 388          |            |                      |
|         | SKPF   |  | Heavy operation and Long stroke | ●          | —               | 8   | 9   | 10      | Carbon                   | ↔  | ●            |            | 389                  |

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### Soft Feeling Type

| Type                                      | Series |   | Features                                  | Operating direction |            | Dimensions (mm) |     |     | Contact | Operation force coverage |    | Lead-free<br>※1 | Page | Minimum<br>packing unit |
|---|--------|---|---|---------------------|------------|-----------------|-----|-----|---------|--------------------------|----|-----------------|------|-------------------------|
|   |        |   |   | Vertical            | Horizontal | W               | D   | H   |         | 1N                       | 5N |                 |      |                         |
| Power<br>Push                             | SKPM   |  | Low contact resistance                    | ●                   | —          | 5.9             | 6   | 4.3 | Silver  | ↔                        | ●  | 390             | ※2   |                         |
| Slide                                     | SKPN   |  | Low contact resistance                    | ●                   | —          | 6               | 6.7 | 7   | Silver  | ↔                        | ●  | 391             |      |                         |
| Rotary<br>Encoders                        | SKPG   |  |   | ●                   | —          | 6.6             | 6.3 | 5   | Carbon  | ↔                        | ●  | 392             |      |                         |
| Jog Shuttle<br>Telephone-hook<br>Detector | SKPL   |  | Round terminal and Low contact resistance | ●                   | —          | ∅6.45           |     | 5   | Silver  | ↔                        | ●  | 393             | ※2   |                         |
|   | SKPD   |  |   | ●                   | —          | □7.8            |     | 5   | Carbon  | ↔                        | ●  | 394             |      |                         |

W : Width. The most outer dimension excluding terminal portion.  
D : Depth. The most outer dimension excluding terminal portion.  
H : Height. The minimum dimension if there are variances.

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### Notes

1. ※1. ● mark : This product series do not contain any lead in all materials and parts.
2. Note that the minimum packaging units for the SKQU surface mount type differ.
3. ※2. Place your purchase order in N minimum package units (N: integer).
4. Ask us for the export packaging unit.
5. Order taping samples in N minimum packaging units (1-reel or 1-box). Nonetheless, if you order products for technical study only, we can accept sampling orders for a quantity of 200 units or less. (Simplified packaging method: It may not be possible to mount to some automatic loading machines.)

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## Products Specifications

| Items                            |                              | Series   | Sharp feeling type | Soft feeling type                      |
|----------------------------------|------------------------------|--|--------------------|--|
|                                  |                              | <b>Operating temperature range</b>   |                    | -20°C to +70°C                         |
| <b>Rating (max.)</b>             |                              | 50mA 12V DC<br>(Except) SKRP : 50mA 16V DC   |                    | 5mA 12V DC<br>SKPL/PM/PN : 50mA 16V DC |
| <b>Rating (min.)</b>             |                              | 10 μA 1V DC  |                    |  |
| <b>Electrical performance</b>    | <b>Insulation resistance</b> | 100MΩ<br>SKEY/PD : 50MΩ  |                    |  |
|                                  | <b>Voltage proof</b>         | 250V AC for 1 min.<br>SKRB/RH/RM/RR/EY/PD : 100V AC for 1min.  |                    |  |
| <b>Durability</b>                | <b>Vibration</b>             | 10 to 55 to 10Hz/min., the amplitude is 1.5mm for all the frequencies, in the 3 direction of X, Y and Z for 2 hours respectively |                    |  |
|                                  | <b>Lifetime</b>              | Shall be in accordance with individual specifications.   |                    |  |
| <b>Environmental performance</b> | <b>Cold</b>                  | -30±2°C for 96h  |                    |  |
|                                  | <b>Dry heat</b>              | 80±2°C for 96h   |                    |  |
|                                  | <b>Damp heat</b>             | 60±2°C, 90 to 95%RH for 96h  |                    |  |

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### Note

We can raise the working temperature range for in-vehicle applications upon request. Contact us if you have any requirements of this kind.

### Specifications of LED (SKHJ)

| Color of light              | Power dissipation | Forward pulse peak current | Forward current | Reverse voltage | Forward voltage     | Reverse current  | Peak emission wave length | Spectral line half width | Luminous intensity  |
|-----------------------------|-------------------|----------------------------|-----------------|-----------------|---------------------|------------------|---------------------------|--------------------------|---------------------|
|                             | P (mW)            | IFP (mA)                   | IFDC (mA)       | VR (V)          | VF (V)<br>IF=10mA   | IR (μA)<br>VR=4V | λ peak (nm)<br>IF=10mA    | Δλ (nm)<br>IF=10mA       | IV (mcd)<br>IF=10mA |
| Red                         | 40                | 80                         | 15              | 4               | 2.7 max.<br>2.05TYP | 5 max.           | 700 TYP                   | 100 TYP                  | 0.4min.<br>1.0 TYP  |
| Pure green                  |                   |                            |                 |                 |                     |                  |                           |                          | 0.8min.<br>2.0 TYP  |
| Amber                       |                   |                            |                 |                 |                     |                  |                           |                          | 0.4min.<br>1.0 TYP  |
| Orange<br>(High brightness) |                   |                            |                 | 3               | 2.7 max.<br>2.0 TYP | 10 max.          | 590 TYP                   | 30 TYP                   | 1.5min.<br>4.0 TYP  |
| Green<br>(High brightness)  |                   |                            |                 |                 |                     |                  |                           |                          | 4                   |

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