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# C&K – Scroll Wheel TSW Series

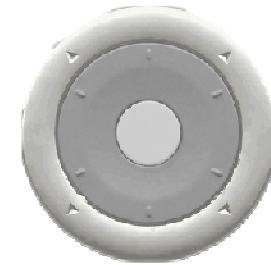


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A **CoACTIVE** COMPANY  
TECHNOLOGIES

## Scrolling Wheel – TSW series

C&K is introducing a new line of navigation solution with more integrated functions.



One component with 3 or 7 functions:

- Clockwise and counter-clockwise rotation
- Center select
- 4 directions

Comes with or without decoration depending on type. Decoration can be customized upon request

## Scrolling Wheel – TSW series

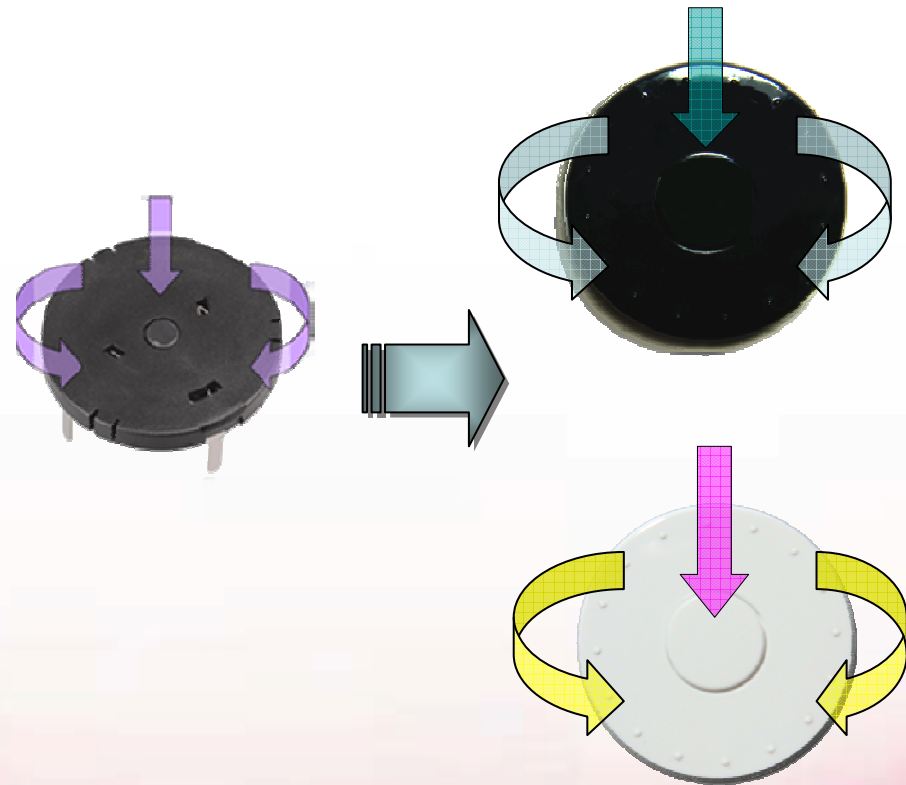
TSW A: 3 in One

### TSW A-3N-C-LFS

This version is the simplest of the two

In a 21.0 mm diameter, this component offers a two way rotation and a central select

Through hole, the decoration is added at a later stage of the process



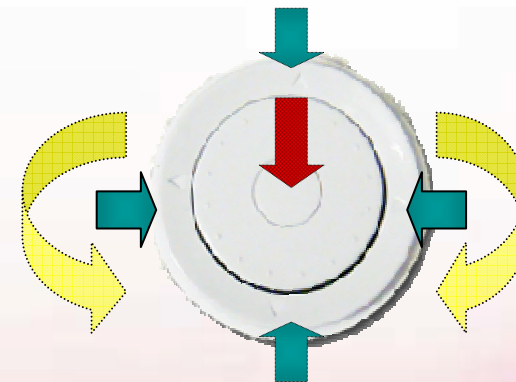
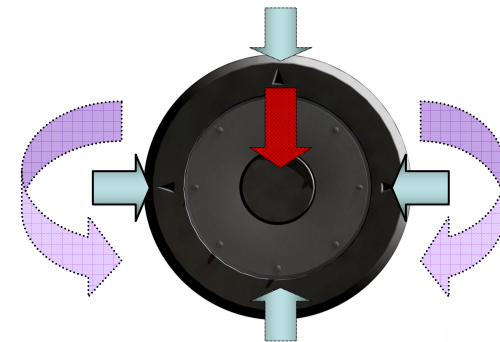
## Scrolling Wheel – TSW series

TSW B: 7 in One

### TSW B-3N-C-LFS

This version offers 4 tactile directions in addition to the TSW A  
These additional switches are located on an outer ring

Still a through hole component, it comes with the buttons already assembled (standard is white)



# Scrolling Wheel – TSW series

## Mechanical features

- Tactile SPST, NO
- Rotary function with double contact point
- Directions on TSWB with anti particle feature
- Dissymmetrical PCB layout with two plastic pegs for easier assembly
- 24 detent
- 12 pulse per 360°

## Mechanical performances

- Select force: 3N
- Rotation torque: < 0.5 N/cm
- Life cycle for rotation: 1 million in each direction
- Life cycle for select and directions: 1 million operation

## Scrolling Wheel – TSW series

### **Thin and slim outline to achieve a stylish design**

- TSWA: Ø 21.0 x 3.50 mm
- TSWB: Ø 34.4 x 6.00 mm (including decoration)

### **Multiple functions**

- Clockwise and counter clockwise Rotary
- Tactile selection
- Tactile directions (TSWB only)

### **Cost saving**

One component to replace several switches and encoder

- Easier design
- Easier production
- Better tolerance management and tactile result

## Scrolling Wheel – TSW series

Typical applications: remote control



# Scrolling Wheel – TSW series

Typical applications: Home automation





# Scrolling Wheel – TSW series

Typical applications: VoIP desk phones



## Scrolling Wheel – TSW series

### Typical applications: Multimedia Keyboards



# Scrolling Wheel – TSW series

Typical applications: In car infotainment systems

