

New

# THB Series Thumbstick

## Features/Benefits

- 2 axis, multi-direction operation
- 2,000,000 life cycle for toggle
- Center select momentary switch
- Small package size

## Typical Applications

- Gaming peripherals
- Remote Control Vehicles
- Mini-joystick
- Thumb control
- Navigation control
- Industrial control
- Heavy equipment



## Electrical

TOTAL RESISTANCE (POTENTIOMETERS): 10kΩ ± 20% initial  
Within ± 20% of initial values for 10,000 cycles

RESISTANCE POTENTIOMETERS: Percentage of the voltage of terminal 1-2 to the voltage of terminal 1-3

RATED VOLTAGE: 50 VAC or 5 VDC

RATED POWER: 0.05 A @ 12 VDC

CONTACT NOISE: Noise < 10% of operating voltage

VOLTAGE DIVIDER: 39.6 ~ 60.4%

INSULATION RESISTANCE: > 100 MΩ

WITHSTANDING VOLTAGE: No arcing or breakdown

## Environment

OPERATING TEMPERATURE: -10°C to +70°C

STORAGE TEMPERATURE: -30°C to +80°C

## Mechanical

PATTERN OF ACTUATOR MOVEMENT: Toggle cross-wide and in a circle

FULL STROKE ACTUATION STOP STRENGTH: > 3.1 kgf  
(3 seconds minimum)

PULL STRENGTH OF THE ACTUATOR: > 5.0 kgf  
(3 seconds minimum)

ACTUATION FORCE: 160 +/-40 gf (19 +/- 5mN\*M of Torque)

ACCURACY OF RETURN TO ACTUATOR RELEASE POSITION: ±3°

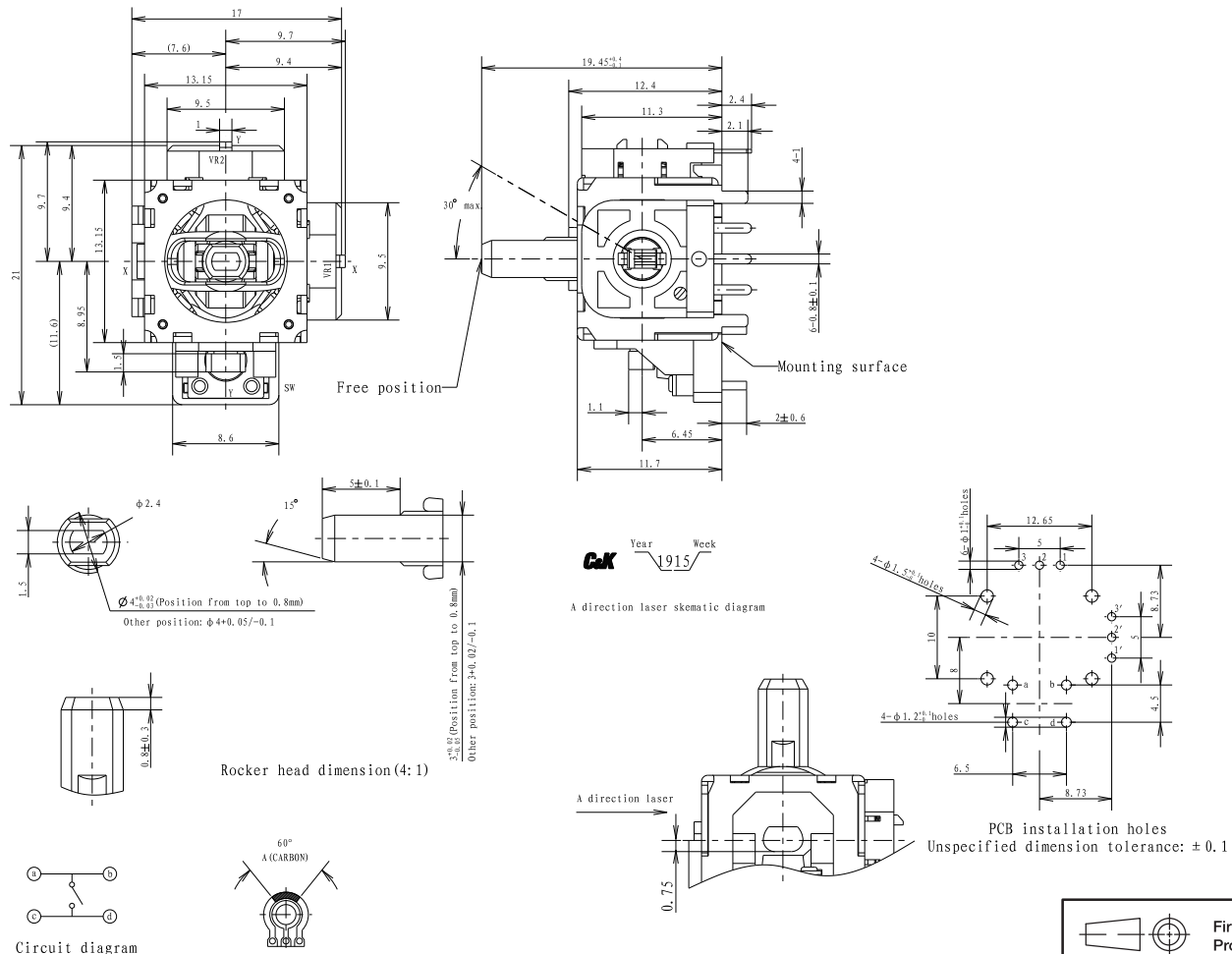
TOGGLE ANGLE OF OPERATION: 30° to 36° Max angle from vertical through full circular range of rotation

OPERATING LIFE: 1,000,000 cycles minimum (center switch)  
2,000,000 cycles minimum (thumbstick toggle)

## Packaging

Tray (60 units)

## THB001P



Navigation



Dimensions are shown: mm  
Specifications and dimensions subject to change