# Trackball Miniature All-direction Scanning Switch

# Features/Benefits

- 8 mm ball ergonomic design allows ease of use in all directions
- Positive tactile feedback
- Integrated lighting (up to 2 LEDs)
- Extensive lighting color choice
- Customized number of pulses per rotation
- ESD protected
- RoHS compliant
- IP54

#### Construction

#### FUNCTION: All-direction scanning + select CONTACT TYPE: Normally open TERMINALS: Flex with 11 terminals

## Mechanical

# **Physical Data**

DIMENSIONS & LAYOUT: According to drawing on next page MASS: 1.2g ± 0.1g

 $\ensuremath{\text{NOTE:}}$  For the latest information regarding RoHS compliance, please go to: www.ittcannon.com/rohs.

**Note:** Specifications listed above are for switches with standard options. For information concerning design integration, please contact your local ITT representative.

# Typical Applications

- Mobile phones
- Remote controls
- Navigation systems
- Keyboards, notebooks, PC mouse
- Cameras, camcorders
- PDA's
- Game controllers



# C

# Electrical (select function)

MAXIMUM POWER:	0.20 VA
MIN./MAX. VOLTAGE.:	20 mVdc - 32 Vdc
MIN./MAX. CURRENT:	1.0 mA - 50mA
DIELECTRIC STRENGTH:	> 200 Vrms
CONTACT RESISTANCE:	< 1000 mΩ
BOUNCE TIME:	≤ 3ms
CAPACITY:	< 5pF

## Environmental

OPERATING TEMPERATURE:	–30°C to +85°C
RELATIVE HUMIDITY:	90 to 95% HR
	According to NF EN 60068-2-30
SCANNING OPERATING LIFE:	300,000 cycles in each 4 main directions
SELECT OPERATING LIFE:	≥ 500,000 cycles
VIBRATIONS:	10 to 500Hz - 5G - 23 min. per axis
MECHANICAL SHOCKS:	According to NF EN 60068-2-27
OVERLOAD:	20 N

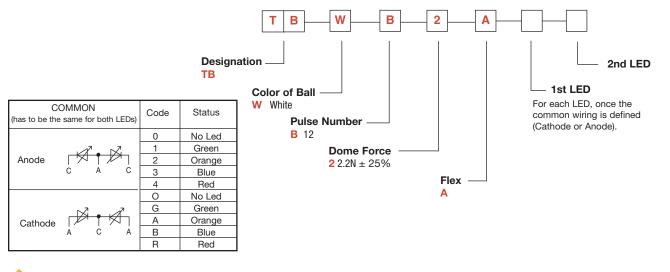
#### Additional Data: Storage and handling environment

PACKAGING CONDITIONS: Star TRANSPORT CONDITIONS: Acc STORAGE TEMPERATURE: -30° SHEAR TEST (SWITCH/PCB): N/A

Standard ITT trays According to specification NF H00-060 -30°C to +85°C N/4

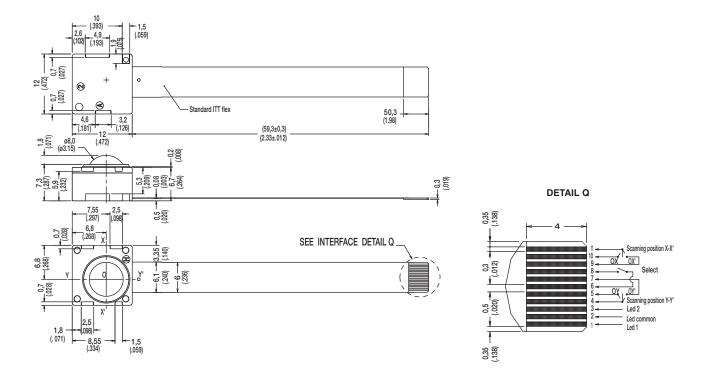
# How To Order

To order, simply select desired option from each category and place in the appropriate box. For additional options not shown in catalog, consult our Customer Service Center.

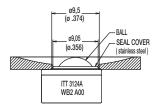




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INTEGRATION EXAMPLE



Each piece is date code printed: 1st Line: 3124A = 3 is Year, 124 is day in the year, A is shift identification 2nd Line: WB2 A00 = Reference of the product.



Navigation O

First Angle Projection Dimensions are shown: mm (inch)

Specifications and dimensions subject to change