# Trackball **Miniature All-direction Navigation Switch**

## Features/Benefits

- 8 mm ball ergonomic design allows ease of use in all directions
- Positive tactile feedback
- Integrated lighting (up to 2 LEDs) •
- ESD protected •
- **RoHS compliant** •
- IP54

## Construction

FUNCTION:

TERMINALS:

All-direction scanning + select CONTACT TYPE: Normally open Flex with 11 terminals 0.5 mm pitch, gold plated

## **Mechanical**

SCANNING	
ROTATING FORCE:	0.35 N ± 0.1 N
SELECT	
SELECTING FORCE:	2.2 N ± 25%
TACTILE FEELING:	≥ 30%
ELECTRICAL TRAVEL (Te):	0.24 mm ± 0.05 mm
SIMULTANEITY (Tm – Te):	≤ 0.12 mm
TOTAL TRAVEL:	0.33 mm ± 0.05 mm

Note: Specifications listed above are for switches with standard options.

## Typical Applications

- Remote controls
- Navigation systems
- Keyboards, notebooks, PC mouse
- Game controllers



#### 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 m $\Omega$
BOUNCE TIME:	≤ 3ms
CAPACITY:	≤ 5pF

#### **Environmental**

OPERATING TEMPERATURE: -30°C to +85°C STORAGE TEMPERATURE: **RELATIVE HUMIDITY:** SELECT OPERATING LIFE: VIBRATIONS: MECHANICAL SHOCKS: OVERLOAD:

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

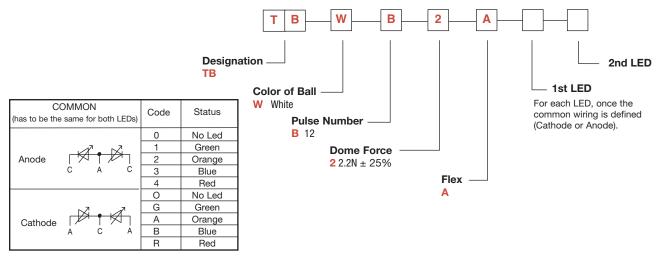
#### Packaging

Plastic trays of 40 pieces

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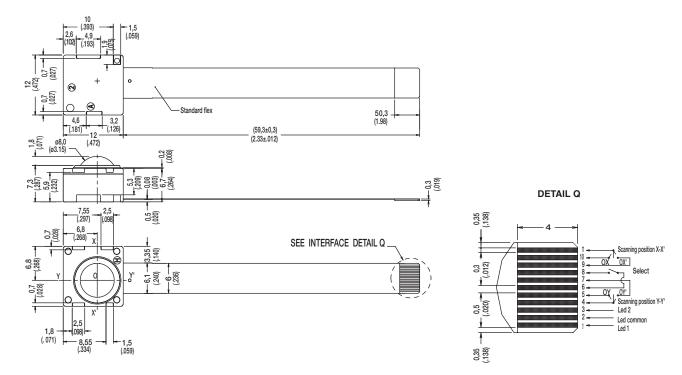
## How To Order

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.

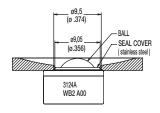




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INTEGRATION EXAMPLE



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.



Specifications and dimensions subject to change

**C**&K