Miniature all-direction scanning switch - Trackball

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
- Sealed IP54
- ESD protected

Typical Applications

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



Construction

FUNCTION: All-direction scanning + select

CONTACT TYPE: Normally open TERMINALS: Flex with 11 terminals

Mechanical

SCANNING

ROTATING FORCE: $0.35 \text{ N} \pm 0.1 \text{ N}$

SELECT

SELECTING FORCE: 2.2 N \pm 25% TACTILE FEELING: \geq 30%

ELECTRICAL TRAVEL (Te): 0.24 mm \pm 0.05 mm SIMULTANEITY (Tm - Te): \leq 0.12 mm TOTAL TRAVEL: 0.33 mm \pm 0.05 mm

NOTE: Specifications listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center.

Physical Data

DIMENSIONS & LAYOUT: According to drawing on next page

MASS: $1.2g \pm 0.1g$

Electrical (select function)

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 CORROSION: 48 hours

According to NF EN 60068-2-11

Additional Data: Storage and handling environment PACKAGING CONDITIONS: Standard ITT trays

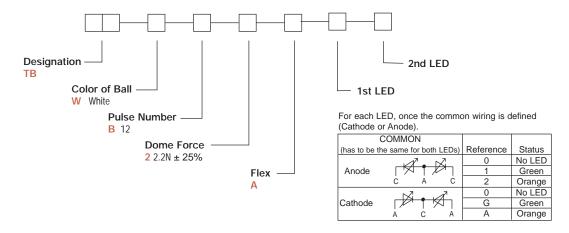
TRANSPORT CONDITIONS: According to specification NF H00-060

STORAGE TEMPERATURE: -30°C to +85°C

SHEAR TEST (SWITCH/PCB): N/A

How To Order

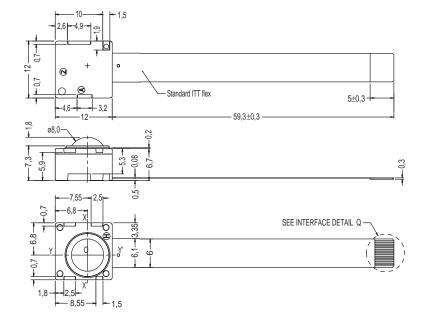
To order, simply select desired option from each category and place in the appropriate box. For additional options not shown in catalog, consult our Customer Service Center.

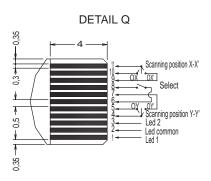




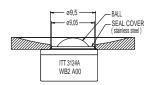
Dimensions are shown: mm (inch) Dimensions subject to change

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INTEGRATION EXAMPLE



Each piece is date code printed:

1st Line: 3124A = 3 is Year, 124 is day in the

year, $\boldsymbol{\mathsf{A}}$ is shift identification

2nd Line: WB2 A00 = Reference of the product.

