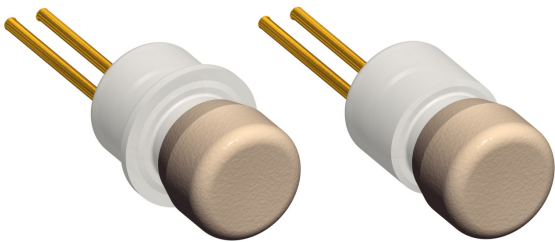


Switches Model PB 100 Click



Features

- Detent function
- Very small dimensions, Ø 1.9 mm [0.075"]
- With or without flange
- Different plastic colors available

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Sonion reserves the right to make changes at any time to improve reliability, function or design, in order to provide the best product possible.

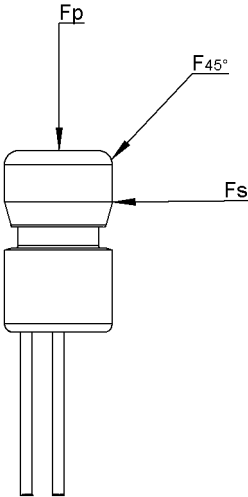
1. History Revision

Revision Number/Date	Change from last revision
001/JUL-06-2010	History Revision added.
002/2014-01-10	Updated design and new RoHS logo directive (2011/65/EU)
003/2019-09-02	Change of storage temperature and humidity (CR3860)

2.Mechanical Specifications

Switch travel	0.25±0.1 mm
Switch activating force	Min. 0.5 N, Max. 1.25 N
Knob retention force	Min. 15 N
Lifetime	Min. 15,000 cycles
Bending of terminals	Min. 3 bending cycles 90° with 0.25 N load
Durability of switch button	
Fp, continuously (normal use)	Max. 5 N
Fp, max. 20 cycles	Max. 10 N
F45°, 20 cycles	Max. 5 N
Fs, max. 20 cycles	Max. 5 N
Durability of solder terminals	
	Min. 4 N pull strength

Definition of knob shear and knob pull strength forces:
From top of knob to shear force attack point: 0.75 mm



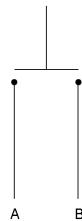
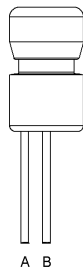
3. Electrical Specifications

Switch contact resistance	Max. 150 mΩ
Switch insulation resistance	Min. 1 MΩ

Bounce time	Max 20 ms
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Switching current	Max. 10 mA
Continuous current	Max. 100 mA

4. Switching Diagram



5. Material Specifications

All materials comply with RoHS directive (2011/65/EU)

Switch Terminals	Ag, gold flash plated
Housing	PA 6.6, glass reinforced
Knob	POM
Base	PEEK

Lubricant, glue / seal, and paint specifications are proprietary information

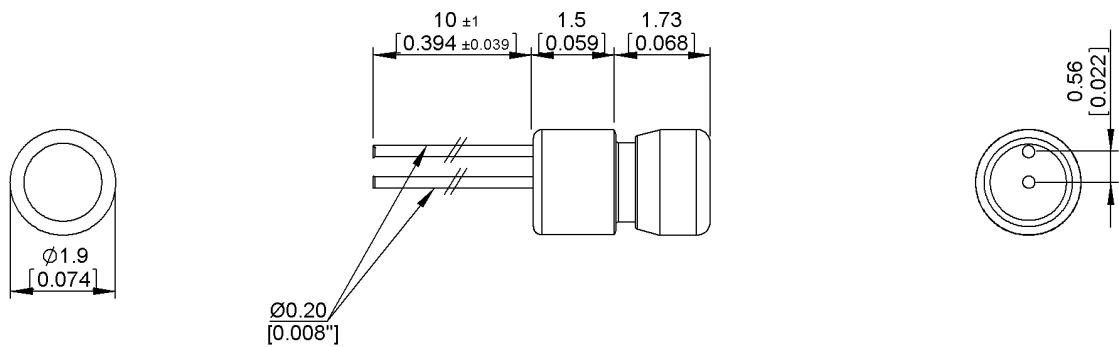
6. Environmental Conditions

Storage temperature	25°C
Storage humidity	60% RH
Purpose is to protect from high humidity and keep at driest condition as possible	

7.Recommended Processing Conditions

Gluing	
Types of glue	Cyanoacrylate (non-blooming), i.e. Loctite 408,460 and Sicomet 50, 63, 77 Non-blooming types must be used to ensure that residuals from the curing process do not degrade the component.
Soldering	
Soldering temperature and time	Max. 300°C [572°F] for 3 s or 350°C [662°F] for 1 s
Soldering distance	Min. 0.3 mm [0.012"] from housing Exceeding temperature, time and distance recommendations may damage the component. Mechanical stress on soldering terminals must be avoided during soldering.
Cleaning	
Cleaning solvents	Aqua wash (Alpha 2110), Benzine Ultrasonic cleaning must be avoided as it may remove the lubricant inside the component.

8.Mechanical Dimensions

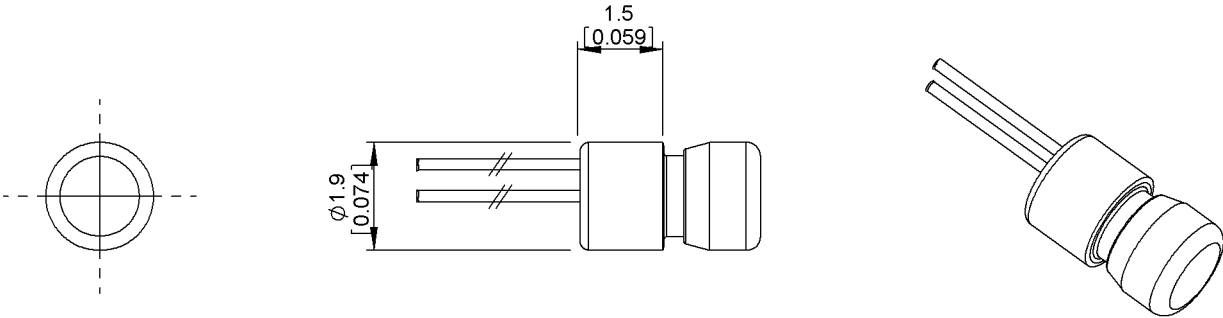


Note:

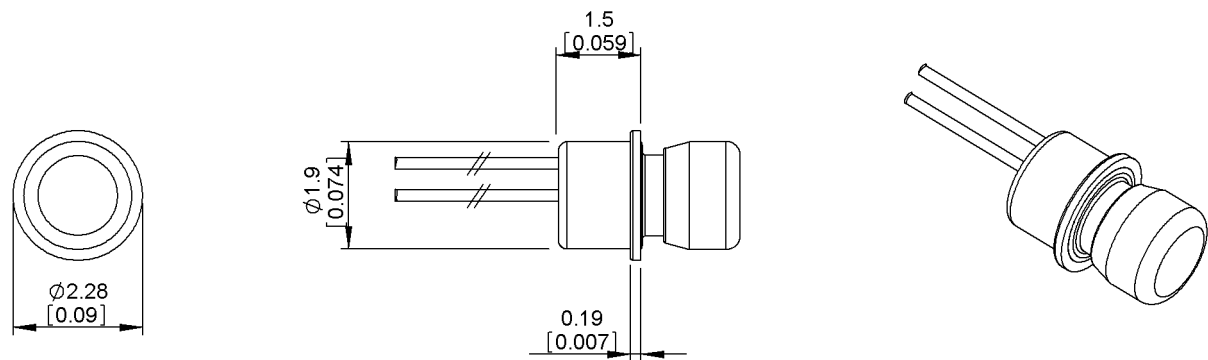
The standard measurement tolerance on the drawings is ±0.05 mm/[0.002"]. Tolerances which differ from this value will be indicated on the drawings.

9.Housing Styles

No. 01

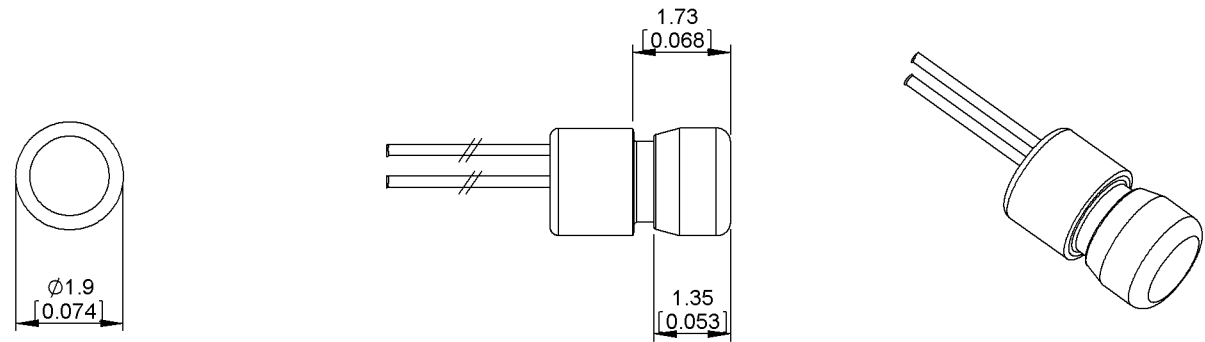


No. 02



10. Knob Style

No. 01

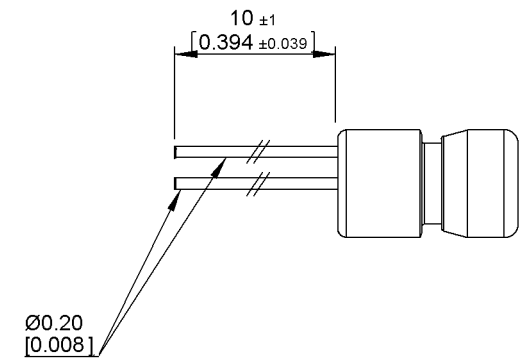


11. Knob Plastic Colors

Please refer to the series 500 in the Sonion 'Plastic Color Assortment' binder for knob plastic colors.

12. Terminal Length

10 mm



13. Product Specification Form

Name

Company

Customer Part No.

Parameters	Look atPage	Enter your choices	Guidelines
Model	2	PB 100 Click	
Housing Styles	7		Please enter no. 01 or 02
Housing Colors			Housing Style no. 01 available in color no. 100 Housing Style no. 02 available in color nos. 100 and 131
Knob Style	8	No. 01	
Knob Colors	8		Please refer to the series 500 included in the Sonion 'Plastic Color Assortment' binder
Terminal Length	8	10 mm	