

FEATURES

- High reliability
- Simple construction (only 3 component parts)
- Over-moulding manufacturing technique
- Plastic or metal clip versions available
- Various fixation means: clip type (inward/outward actuating), locating pins,...

TYPICAL APPLICATIONS

Provides a low cost, highly reliable solution for all position sensing applications:

- Automotive seat position memory, central locking, headlamp position and rear-view mirror position sensors.

MECHANICAL SPECIFICATIONS

Mechanical travel:

- NPL07.....7,25mm
- NPL08.....8mm
- NPL12.....12mm

Electrical travel: (see how to order)

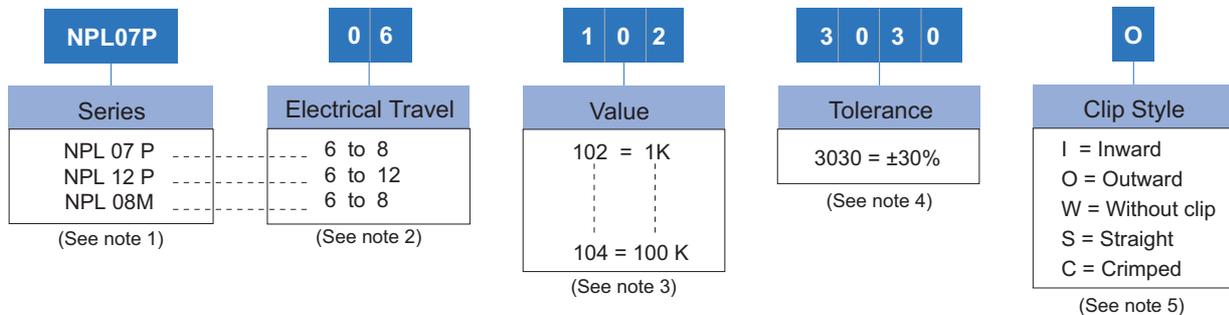
- Sliding force: ≤ 2N @ 10mm/sec
- Stop strength: 30N for 5 secs

ELECTRICAL SPECIFICATIONS

- Range of values: 1K to 100K ohms
- Tolerance: ± 30%
- Max. voltage*: 50 VDC to 100 VDC
- Power rating*: 0.20 W @ 50°C
- Operating temperature: -40°C to +105°C
- Taper**: Linear
- Relative linearity**: ± 2%
- Mechanical Life: 50K cycles

* Depending on model ** Others check availability

HOW TO ORDER



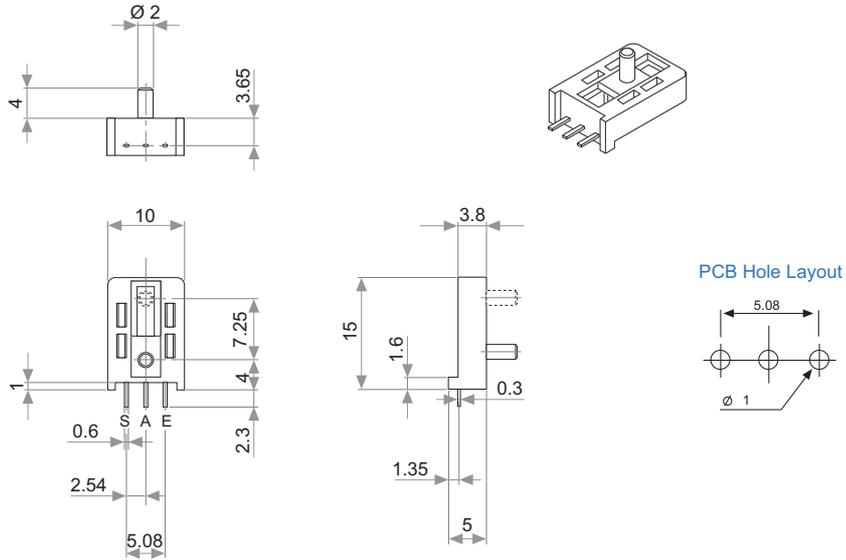
NOTES:

- (1) Suffixes: P = Plastic, M= Metal
- (2) Each NPL series has its own Electrical Travel range as shown.
- (3) Value Example: Code: 10 2 → 1kΩ
Number of zeros
First two digits of the value.
- (4) Non standard tolerance, check Example: +25% Code: 25 20
-20% → negative tolerance
positive tolerance
- (5) S and C options only available for NPL08M (metal version)
W option only available for NPL07P
I and O options only available for NPL12P

NOTE: The information contained here should be used for reference purposes only.
This project has been financially supported by the Spanish Technological Development Institute (CDTI).

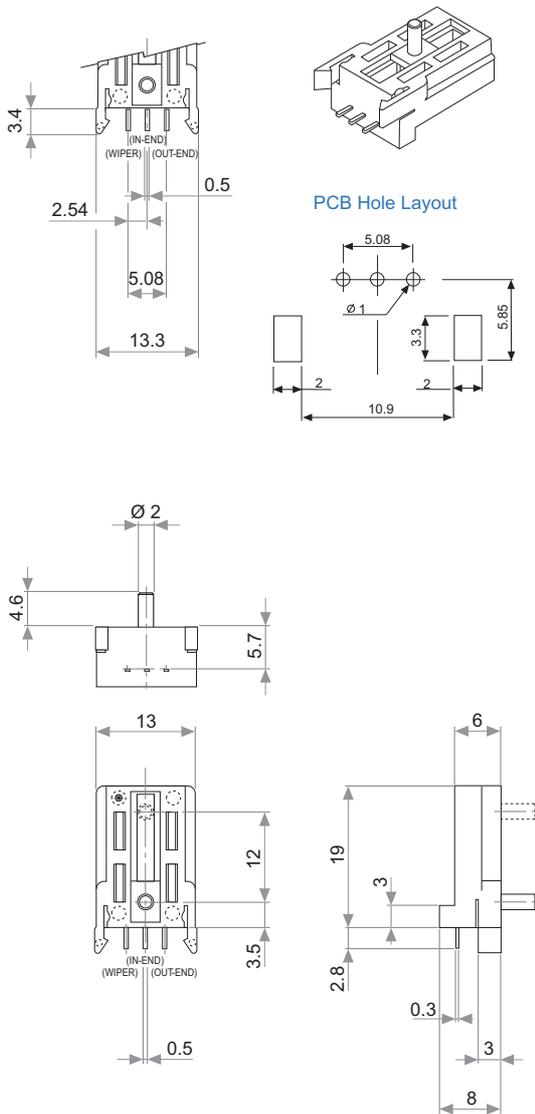


PLASTIC VERSION NPL-07P

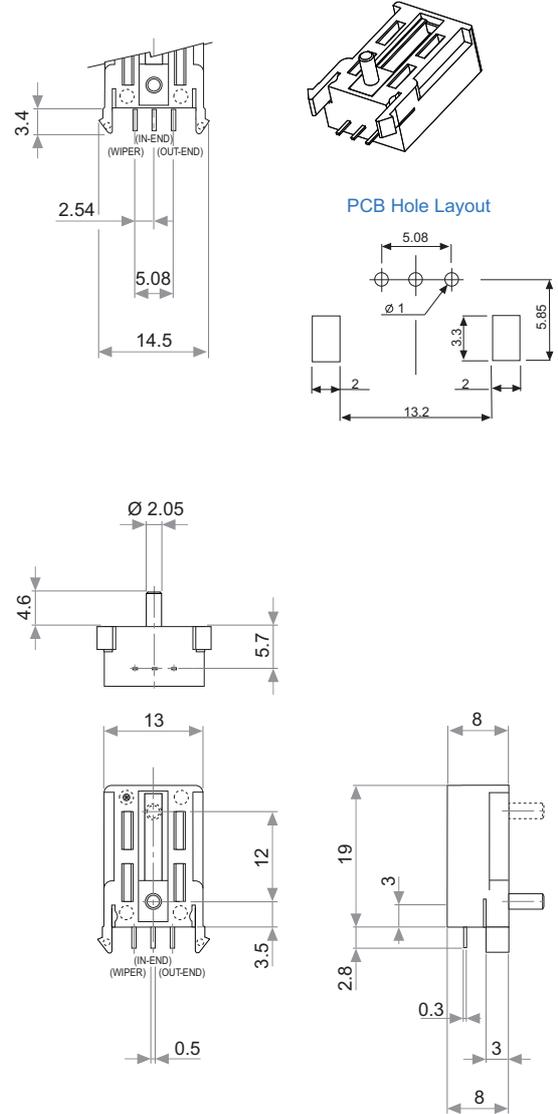


PLASTIC VERSION NPL-12P

INWARD FACING CLIPS

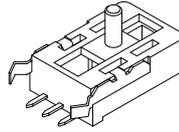
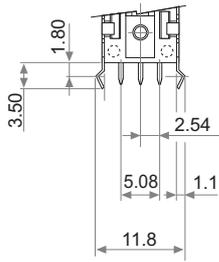


OUTWARD FACING CLIPS

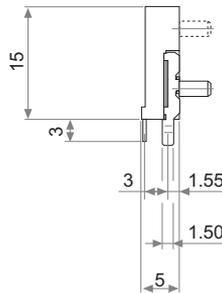
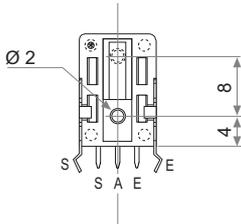
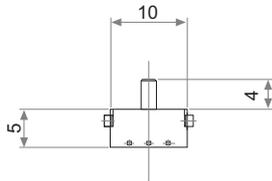
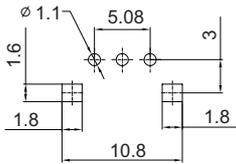


METAL VERSION (NPL08M)

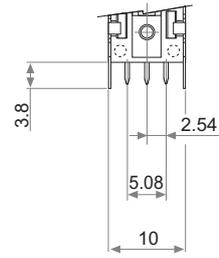
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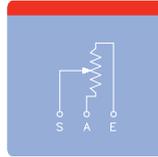
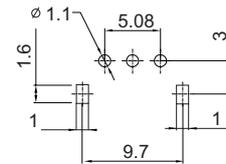
PCB Hole Layout



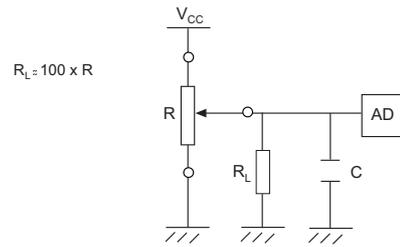
STRAIGHT



PCB Hole Layout



Piher potentiometer's recommended connection circuit for a position sensor or control application.(voltage divider circuit electronic design).



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