

# **MECHANICAL SPECIFICATIONS**

Mechanical travel:

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

Electrical travel: (see how to order) Sliding force: ≤ 2N @ 10mm/sec Stop strenght: 30N for 5 secs

**Linear position sensor** 

#### **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.

# **ELECTRICAL SPECIFICATIONS**

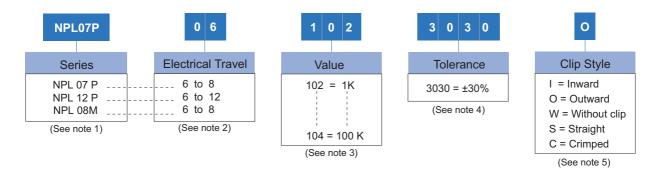
Range of values: 1K to 100K ohms

Tolerance: + 30%

50 VDC to 100 VDC Max. voltage\*: Power rating\*: 0.20 W @ 50°C -40°C to +105°C Operating temperature:

Linear Taper\*\*: Relative linearity\*\*: ± 2% Mechanical Life: 50K cycles

# **HOW TO ORDER**



#### NOTES:

- Suffixes: P = Plastic, M= Metal (1)
- Each NPL series has its own Electrical Travel range as shown.
- Value Example: Code: <u>10</u>  $1 k\Omega$

Non standard tolerance, check

Number of zeros First two digits of the value. Example: +25%

S and C options only available for NPL08M (metal version) W option only available for NPL07P

Code: 25 negative tolerance positive tolerance

I and O options only available for NPL12P











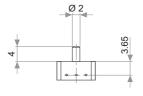


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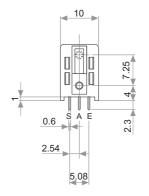
NOTE: The information contained here should be used for reference purposes only. This project has been financially supported by the Spanish Technological Development Institute (CDTI).

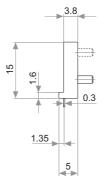
<sup>\*</sup> Depending on model \*\* Others check availability

# **PLASTIC VERSION NPL-07P**





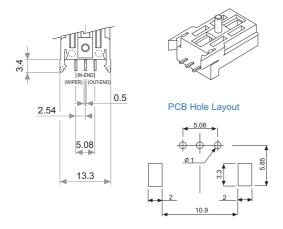




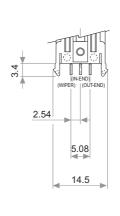


# **PLASTIC VERSION NPL-12P**

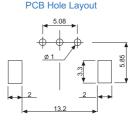
# INWARD FACING CLIPS

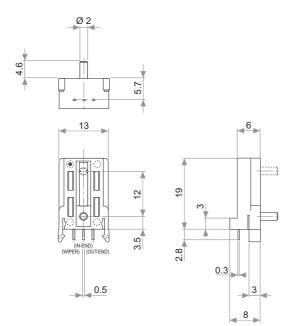


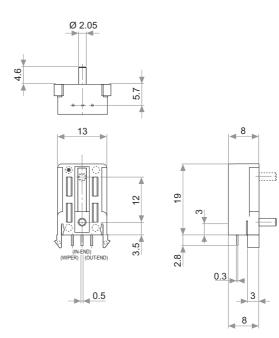






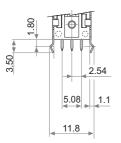




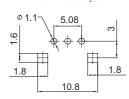


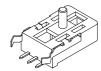
# **METAL VERSION (NPL08M)**

# **CRIMPED**



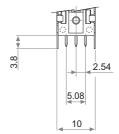
#### PCB Hole Layout



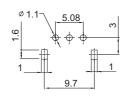


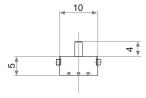


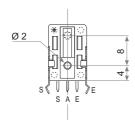
# STRAIGHT

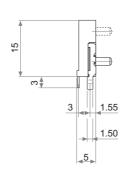


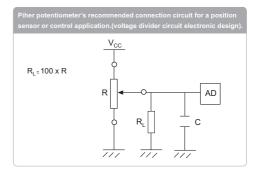
PCB Hole Layout











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