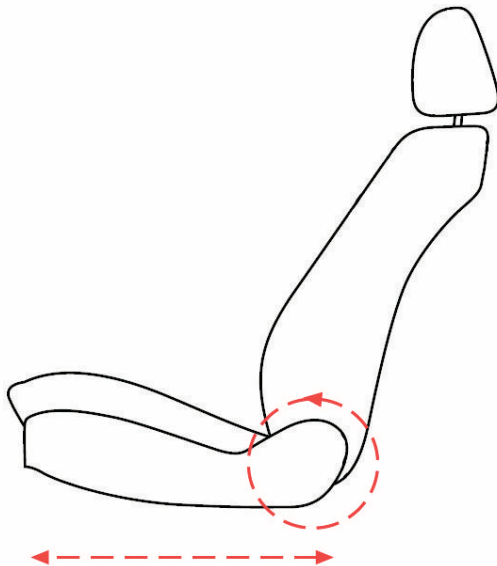


# PIHER

## Multiturn Sensors



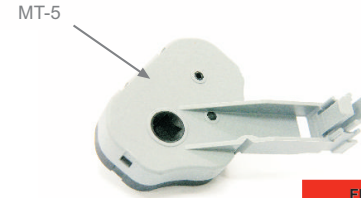
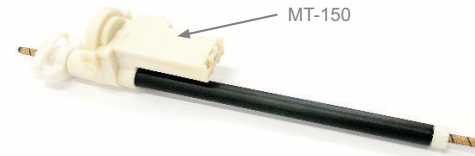
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smart engineering for  
extreme environments

# PIHER



FULLY  
CUSTOMISEABLE  
SERIES

### STANDARD SPECIFICATIONS (MT-150)

Resistance values\*: 10k  
Tolerance: ± 20%  
Nominal Power: 0.15 W @ 50°C  
Linearity: ± 5% (independent)  
Taper: Linear  
Life\*: 6,000 cycles  
Temperature Range: -40°C to +85°C  
Mechanical travel: 150 ± 4 turns  
Max. Voltage: 38 VDC  
Voltage Range: 12.5% ± 2.5% - 87.5% ± 2.5%  
Wiper protection resistance: 550Ω

(\*) Others upon request

### STANDARD SPECIFICATIONS (MT-5)

Resistance values: 10k  
Tolerance: ± 20%  
Nominal Power: 0.15 W @ 50°C  
Linearity: ± 5% (independent)  
Taper: Linear  
Temperature Range: -40°C to +85°C  
Mechanical travel: 3.75 and 5 turns versions  
Mechanical life: 8000 cycles  
Voltage Range: 4.75 MAX to 0.25 MIN

### APPLICATION EXAMPLE (Seat Memory Angle Position Sensor)

Three slightly different MT-5 models are available. The product is through hole so that the horizontal shaft can pass through it. The shaft is moved by a motor attached to it. The whole mechanical movement allowed is 5 turns of the axis. This movement is mechanically memorised so that the electronics can always return the position to a previously recorded state.

Other possible applications:

- Recliner Position sensor
- Head Restraint Position sensor
- Lumbar Position sensor
- Seat Linear Memory Position Sensor (GM-150)

# MT SERIES

Multiturn  
sensor

### FEATURES

In automobile seat applications the seat may be linearly movable, either manually or automatically via electromechanical means, on an associated track assembly. A sensor may provide a signal representative of the linear position of the seat on the track for a variety of purposes, e.g. to control deployment or the force of an air bag, to feedback the motor position of the seat in connection with a seat position memory feature, etc. The MT-150 series have been initially designed for this application, allowing 150 turns mechanical travel.

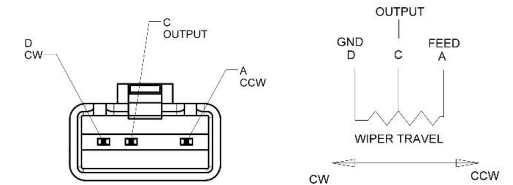
The MT-5 series have been designed for seat angle position sensing applications. Three slightly different models are available depending on the car model they are to be placed in.

Both series are sealed and feature a clutch function at end stops. They can be easily **customised to meet customer's requirements**.

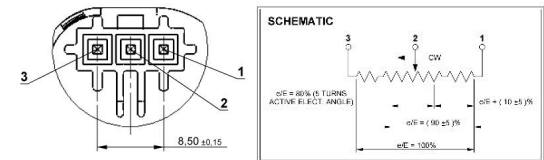
**Absolute position is mechanically stored** so there is no need of active electronics thus avoiding problems such as memory being lost by current shortages.

### CONNECTOR DETAILS (MT-150)

Connector mates with Packard Electric P/N 12059583



### CONNECTOR DETAILS (MT-5)



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