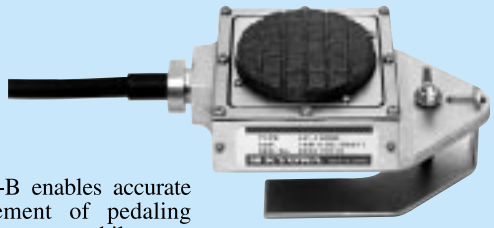
LP-B

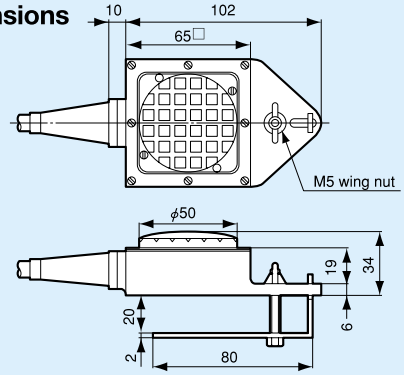
Pedaling Force Transducers



The LP-B enables accurate measurement of pedaling force of an automobile, etc.

TEDS-installed model can also be manufactured. Inquiries are welcome.

Dimensions



Features

- Easy installation and handling
- Minimal error between different pedaling modes

Specifications

Performance
Rated Capacity
LP-50KB: 500 N
LP-100KB: 1 kN
LP-200KB: 2 kN
Nonlinearity: Within ±0.5% RO
Hysteresis: Within ±0.5% RO
Repeatability: 0.5% RO or less
Rated Output: 1 to 2 mV/V (2000 to 4000 μm/m)

Environmental Characteristics
Safe Temperature Range: 0 to 50°C
Compensated Temperature Range: 10 to 40°C
Temperature Effect on Zero: Within ±0.4% RO/°C
Temperature Effect on Output: Within ±0.1%/°C

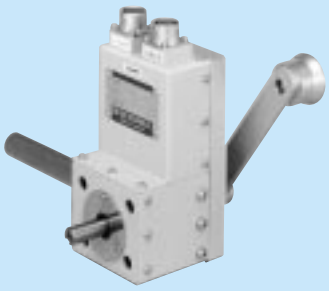
Electrical Characteristics
Safe Excitation Voltage: 15 VAC or DC
Recommended Excitation Voltage: 1 to 5 VAC or DC
Input Resistance: 350 Ω ±0.5%
Output Resistance: 350 Ω ±0.5%
Cable: 4-conductor (0.3 mm²) chloroprene shielded cable, 7.6 mm diameter by 5 m long, terminated with NDIS connector plug (Shield wire is connected to the chassis.)

Mechanical Properties
Safe Overload Rating: 120%
Weight: Approx. 1 kg

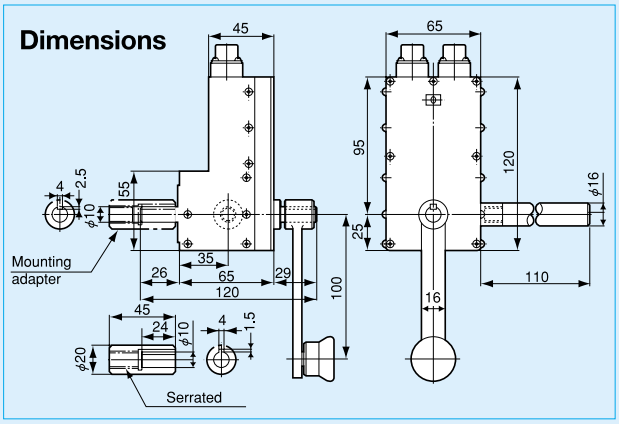
TPW-S-8NMS1

Door Window Torque Transducer

This transducer enables simultaneous accurate measurement of operating force and angle of a door window regulator, etc. It is installed by using a suitable adapter in place of the existing lever.



Dimensions



Features

- Easy installation and handling
- Accurate measurement of operating force (torque) and angle

Specifications

Performance
Rated Capacity
Torque: ±8N·m
Rotating angle: ±10 rotations (±3600°)
Nonlinearity: Within ±0.5% RO
Hysteresis: Within ±0.5% RO
Rated Output: Approx. 1 mV/V (2000 μm/m)

Environmental Characteristics
Safe Temperature Range: 0 to 60°C
Compensated Temperature Range: 0 to 50°C
Temperature Effect on Zero: Within ±0.05% RO/°C
Temperature Effect on Output: Within ±0.05%/°C

Electrical Characteristics
Safe Excitation Voltage: 10 VAC or DC
Recommended Excitation Voltage: 1 to 6 VAC or DC
Input Resistance: 350 Ω ±2% (340 to 360 Ω for rotating angle)
Output Resistance: 350 Ω ±2% (340 to 360 Ω for rotating angle)
Cable: 4-conductor (0.3 mm²) chloroprene shielded cable, 7.6 mm diameter by 5 m long, terminated with NDIS connector plug at both ends, 2 pieces provided

Mechanical Properties
Safe Overload Rating: 120% (mechanically endless for rotating angle)

Mounting adapter should be serrated by the user.