

# ASHT-A

- Measures 3 X, Y, and Z axes simultaneously
- 980.7 to 9807 m/s<sup>2</sup>

## Triaxial Acceleration Transducers

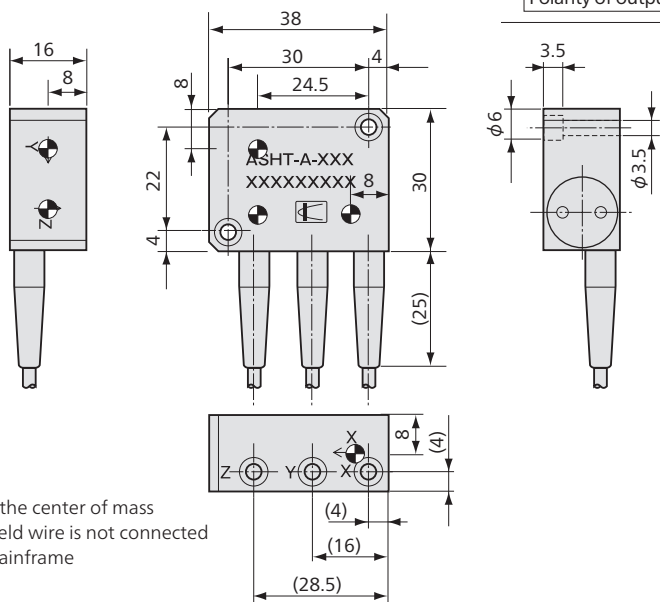


※TEDS-installed versions can be manufactured. Inquiries are welcome.

### Compact and lightweight measure 3 axes acceleration simultaneously.

- Measurement from DC is possible
- 3 acceleration transducers are within the same case, enabling measurement in X, Y, and Z axes.
- Minimal mutual interference between each axis, enabling high-accuracy measurement.
- Applicable to the analysis of acceleration in complex vibration phenomena
- Compact and lightweight

#### ■ Dimensions



● indicates the center of mass  
Note) Shield wire is not connected to mainframe

#### Specifications

##### Performance

Rated Capacity :	See table below.
Nonlinearity :	Within±1% RO
Hysteresis :	Within±1% RO
Rated Output :	0.5 mV/V (1000μm/m) ±20%

##### Environmental Characteristics

Compensated Temperature Range :	5 to 40°C
Safe Temperature Range :	-15 to 65°C
Temperature Effect on Zero Balance :	Within ±1% RO/°C
Temperature Effect on Output :	Within ±1% RO/°C

##### Electrical Characteristics

Safe Excitation Voltage :	6V AC or DC
Recommended Excitation Voltage :	2V AC or DC
Input Resistance :	120Ω±8.3%
Output Resistance :	120Ω±8.3%
Cable :	4-conductor (0.08 mm <sup>2</sup> ) vinyl shielded cable, 5m long, 3.2 mm diameter, end connector plug (PRC03-12A 10-7M 10.5)×3 (Shield wire is not connected to mainframe)

##### Mechanical Properties

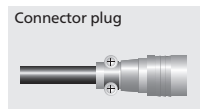
Safe Overload Rating :	300%
Frequency Response Range :	See table below.
Transverse Sensitivity :	2% or less
Weight :	Approx. 45g (with cable, 420g)
Dimensions :	30×38×16mm (see external view)

Model	Rated Capacity (Reference Value)	Frequency Response (at 23°C)
ASHT-A-100	±980.7m/s <sup>2</sup> (±100G)	DC to 1.2kHz sensitivity deviation ±5%
ASHT-A-200	±1961m/s <sup>2</sup> (±200G)	DC to 2.1kHz sensitivity deviation ±5%
ASHT-A-500	±4903m/s <sup>2</sup> (±500G)	DC to 3kHz sensitivity deviation ±10%
ASHT-A-1K	±9807m/s <sup>2</sup> (±1000G)	DC to 5kHz sensitivity deviation ±10%

#### ■ Acceleration Direction

Arrows on mainframe "↑"

	Acceleration	Impact	Rotation	
Acceleration condition				The arrow on the mainframe is in accordance with the direction of acceleration.
Polarity of output	(+)	(+)	(+)	



#### ● Static measurement

ASHT-A Recommended products for combination

- Strain Amplifiers DPM-900 Series → 3-5
- Compact Recorder EDS-400A → 3-57
- Universal Recorders EDX-100A → 3-65
- Memory Recorder/Analyzers EDX-3000A → 3-79

Field to recommend

