

# ACCELERATION TRANSDUCERS

## ARS-A High sensitive Acceleration Transducer 10m/s<sup>2</sup>



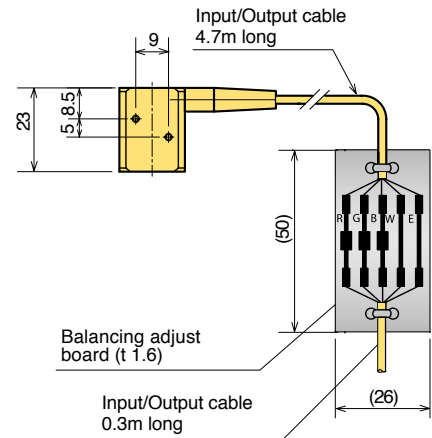
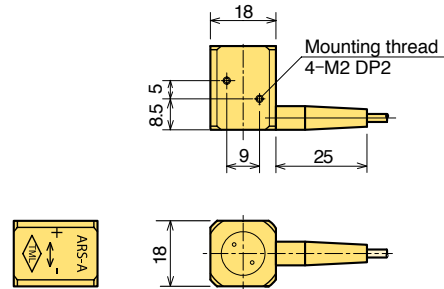
High sensitivity

Small accelerometer suitable for measurement of vibration mode of machines and structures including cable tension of bridges. High sensitivity of  $30000 \times 10^{-6}$  strain for  $10 \text{m/s}^2$  makes minute vibration measurement possible.

Protection ratings: IP61 equivalent

### SPECIFICATIONS

TYPE	ARS-10A
Capacity	10m/s <sup>2</sup>
Rated Output	15mV/V ( $30000 \times 10^{-6}$ strain)
Non-linearity	1%RO
Frequency response range	DC~30Hz
Natural frequency	55Hz
Allowable temperature range	-10 ~ +50°C
Over load	500%
Input/Output resistance	120Ω
Recommended exciting voltage	2V or less
Allowable exciting voltage	5V
Zero balance	$\pm 5000 \times 10^{-6}$ strain or less
Weight	23g



Input/Output cable :  
 $\phi 3.2 \text{mm}$   $0.08 \text{mm}^2$  4-core shielded vinyl cable 5m

## ARM-A-T Small Tri-axial model Acceleration Transducer 100m/s<sup>2</sup> / 400m/s<sup>2</sup>



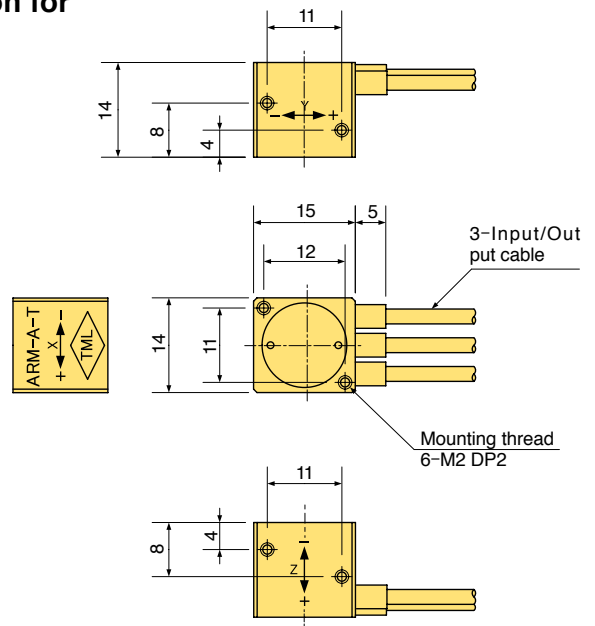
Identical gravity position for  
3 axes  
Easy handling

Tri-axial acceleration transducers for the fields of machines, vehicles, shipping, civil works and structures.

Protection ratings: IP61 equivalent

### SPECIFICATIONS

TYPE	ARM-A-T
Numbers of measurement	3 directions
Capacity	X- and Y-directions 100m/s <sup>2</sup> Z-direction 400m/s <sup>2</sup>
Rated output	0.5mV/V ( $1000 \times 10^{-6}$ strain)
Non-linearity	1%RO
Frequency response range	DC~200Hz (Sensitivity deviation $\pm 10\%$ )
Natural frequency	X- and Y-directions 500Hz Z-direction 1400Hz
Cross sensitivity	3%RO (at 100m/s <sup>2</sup> load)
Allowable temperature range	-10 ~ +60°C
Over load	300%
Input/Output resistance	X- and Y-directions 1000Ω Z-direction 200Ω
Recommended exciting voltage	2V or less
Allowable exciting voltage	5V
Weight	13g



Input/Output cable :  
 $\phi 2.2 \text{mm}$   $0.05 \text{mm}^2$  4-core shielded vinyl cable 5m