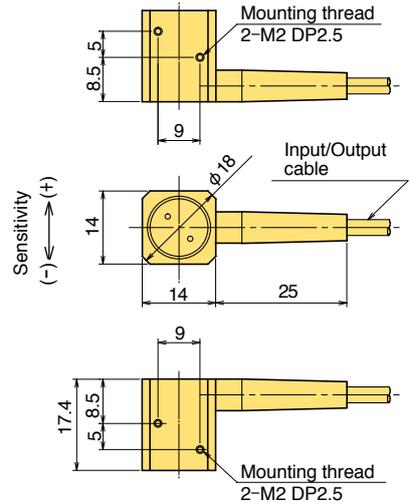


# ACCELERATION TRANSDUCERS

## ARF-A Low capacity Acceleration Transducer 10~500m/s<sup>2</sup>



**General purpose  
Low capacity**



The ARF-A acceleration transducer is used to measure the acceleration of structures subject to vibration such as machinery, vehicles, ships, civil engineering structures, buildings, and so forth. It is small and lightweight and can make measurement on the DC level.

Protection ratings: IP61 equivalent

### ■ SPECIFICATIONS

TYPE	ARF-10A	ARF-20A	ARF-50A	ARF-100A	ARF-200A	ARF-500A
Capacity	10m/s <sup>2</sup>	20m/s <sup>2</sup>	50m/s <sup>2</sup>	100m/s <sup>2</sup>	200m/s <sup>2</sup>	500m/s <sup>2</sup>
Rated Output	0.5mV/V(1000×10 <sup>-6</sup> strain)					
Non-linearity	1%RO					
Frequency response range	DC~50Hz	DC~80Hz	DC~130Hz	DC~180Hz	DC~310Hz	DC~520Hz
Natural frequency	100Hz	150Hz	240Hz	300Hz	520Hz	870Hz
Allowable temperature range	-10 ~ +50°C					
Over load	300%					
Input/Output resistance	120Ω					
Recommended exciting voltage	2V or less					
Allowable exciting voltage	5V					
Weight	13g					

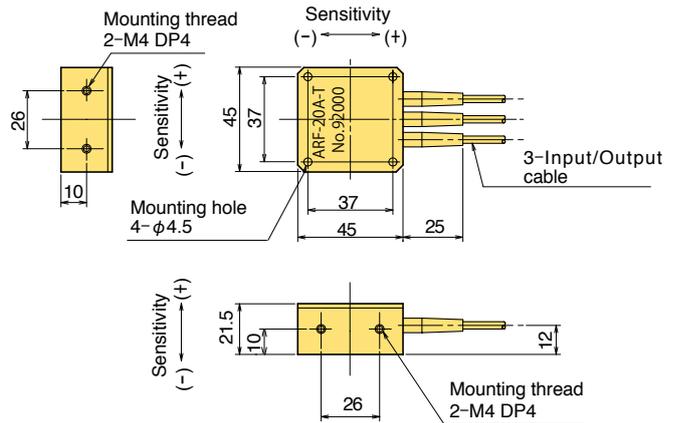
Input/Output cable : φ3.2mm 0.08mm<sup>2</sup> 4-core shielded vinyl cable 5m

Shield of Input/Output cable is grounded to the body.

## ARF-A-T Low capacity Tri-axial Acceleration Transducer 20~500m/s<sup>2</sup>



**General-purpose  
Low capacity  
Three directional measurement**



The ARF-A-T acceleration transducer measures acceleration in three directions (X, Y and Z) simultaneously. It is small and lightweight and can make high-accuracy measurement with the least interference.

Protection ratings: IP61 equivalent

### ■ SPECIFICATIONS

TYPE	ARF-20A-T	ARF-50A-T	ARF-100A-T	ARF-200A-T	ARF-500A-T
Capacity	20m/s <sup>2</sup>	50m/s <sup>2</sup>	100m/s <sup>2</sup>	200m/s <sup>2</sup>	500m/s <sup>2</sup>
Rated Output	0.5mV/V(1000×10 <sup>-6</sup> strain)				
Non-linearity	1%RO				
Frequency response range	DC~80Hz	DC~130Hz	DC~180Hz	DC~310Hz	DC~520Hz
Natural frequency	150Hz	240Hz	300Hz	520Hz	870Hz
Cross sensitivity	3%RO				
Allowable temperature range	-10 ~ +50°C				
Over load	300%				
Input/Output resistance	120Ω				
Recommended exciting voltage	2V or less				
Allowable exciting voltage	5V				
Weight	85g				

Input/Output cable :  
φ3.2mm 0.08mm<sup>2</sup> 4-core shielded vinyl cable 5m

Shield of Input/Output cable is grounded to the body.