

## Fibre Optic Acceleration Sensor YOSC-OFA

YOSC-OFA fibre optic accelerometer is an accelerometer independently developed by YOSC, which has the characteristics of passive, anti-electromagnetic interference, anti-lightning strike and maintenance-free, and can be accurately monitored for a long time. Adopting a metal sealing design, armored optical cable protection, and equipped with rain proof junction boxes and joint protection devices, the FBG accelerometer can be directly installed on structures exposed to the outdoors, fully suitable for long-term outdoor monitoring needs.



### + Features

- High precision, high stability, and high reliability
- Intrinsic safety, electromagnetic interference resistance, corrosion resistance, pollution resistance, strong lightning resistance, etc.
- By adhering to the same strict quality standards as traditional electrical sensors
- Easy and fast installation, reusable
- Installation blocks can be provided for dual or triple axis installation
- Protective devices can be used in harsh environments

### + Applications

- Earthquakes, surface and underground building vibrations
- Low frequency vibration of bases such as power transmission towers and wind turbine towers
- Vibration of rotating electromechanical equipment
- Long term safety testing of bridges, dams, buildings, tunnels, ships, trains, and other complex structures

### + Parameters

Items	YOSC-OFA005-MF	YOSC-OFA010-MF	YOSC-OFA050-MF	YOSC-OFA050-MF-3Tri
Range	±5g	±10g	±50g	±50g
Accuracy	0.3%FS	0.5%FS	1%FS	1%FS
Resolution	0.03%FS	0.05%FS	0.1%FS	0.1%FS
Frequent response	0-100Hz	0-100Hz/600Hz	0-600Hz/1000Hz	0-600Hz
Working temperature	-40~80°C			
Center wavelength	C-band(1525-1565nm)			
Peak reflectivity	>90%			
External dimension	60x60x60mm(customizable)			
Weight	200~500g			
Material	Aluminum alloy/Stainless steel, etc			
Fibre optic cable type	Armored optical cable			
Fibre optic interface	FC/APC or fusion welding			
Installation method	Welding, bolt fixation, etc.			