

Fibre Optic Weight Sensor YOSC-OFW

YOSC-OFW fibre optic weight sensor is a force sensor used for both static and dynamic measurements. Its principle is that the elastic structure undergoes elastic deformation under external forces, and the fibre optic grating pasted on the elastic structure also undergoes deformation. The product has a simple structure, no electronic components, high system reliability, and can be widely used in the fields of weighing scales, belt scales, and industrial automation.



+ Features

- Metal sealing design, waterproof, dustproof, etc
- Intrinsic safety, electromagnetic interference and lightning strikes resistance
- Long distance optical signal transmission
- High precision, high stability, high reliability, easy installation and series connection
- Good linearity and strong resistance to unbalanced loads

+ Applications

- Weighbridge scale, belt scale
- Industrial automation
- Mechanical processing

+ Parameters

Items	YOSC-OFW
Range	1~100t
Resolution	0.1%FS
Accuracy	0.5%FS
Working temperature	-40°C~80°C
Center wavelength	C-band(1525-1565nm)
Peak reflectivity	>90%
External dimension	φ220×70mm
Weight	Approximately 15kg
Material	Alloy steel/Spring steel
Fibre optic cable type	Armored optical cable
Fibre optic interface	FC/APC or fusion welding
Installation method	Welding, bolt fixation, etc.