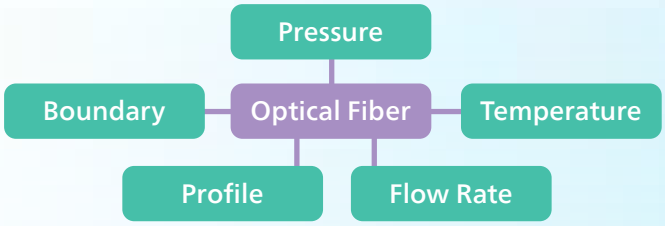
All to brighten the world FURUKAWA ELECTRIC

Optical Fiber Sensing Solutions

Leveraging the unique advantages of optical fiber sensing technology, Furukawa Electric is developing innovative sensing solutions for next-generation medical devices and diagnostic applications.

Key Features

- **High Accuracy**
- **Low Drift Performance**
- **Immunity to Electrical Interference**
- **Cost-Competitive Dedicated Console**
- **Flexible Sensor Design for Various Applications**



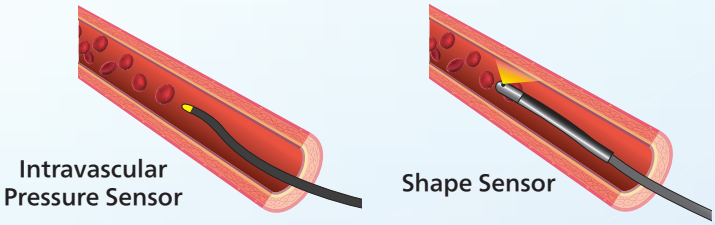
Sensing Targets

Pressure, Temperature, Flow Rate, Shape, Surface Profiling, Boundary Detection.

Potential Medical Applications

Optical fiber sensing technology enables the detection of physical changes through optical signals.

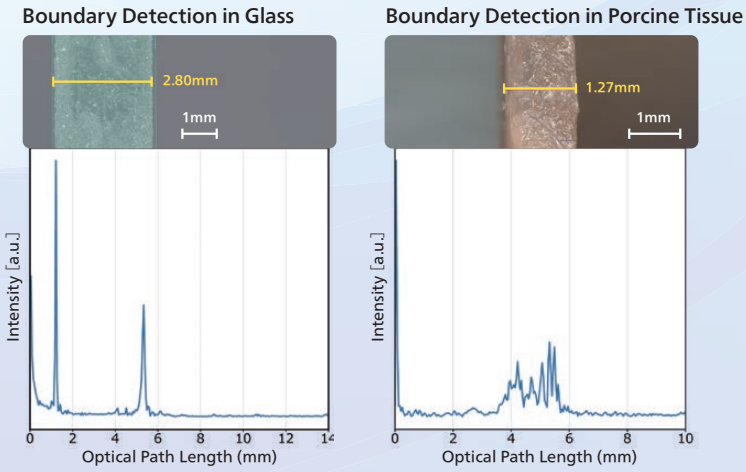
- Catheter-Based Sensing
- Guidewire-Based Sensing
- Endoscopic Devices
- Physiological Monitoring



Application Example

Boundary Detection Sensor

Furukawa Electric's boundary detection sensor can identify tissue boundaries using an optical fiber integrated into a biopsy needle. In addition, proprietary optical fiber tip processing technology enables boundary detection from the side of the optical fiber.



FURUKAWA ELECTRIC CO., LTD.
https://www.furukawaelectric.com/en/

Life Science Department
Social Design & New Business Development Department
New Business Development Division
Contact : fec.ls-contact@furukawaelectric.com

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