German Fiber Optic Sensor Replacement Manufacturer

Overview

Heracle is a Germany-based supplier of custom-designed specialty optical fiber solutions and off-the-shelf fiber products.

Key Takeaways

Leading German manufacturers for fiber optic sensor replacements include FiSens GmbH, FOS Inon Optics, fionec GmbH, and FOC – fibre optical components GmbH.Key Manufacturers

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FiSens GmbH specializes in high-performance fiber Bragg grating (FBG) sensor arrays and fiber-integrated spectrometers. Their sensors are designed for harsh environments and applications such as structural monitoring, medical instruments, and industrial systems. FiSens emphasizes compact, precise, and reliable FBG hardware, making them a strong choice for replacement or custom fiber optic sensors in demanding applications (FiSens GmbH) . FOS Inon Optics offers custom-tailored fiber optic solutions, including multimode fibers and precision optical assemblies. They focus on high-precision manufacturing with eccentricity deviations below 15 µm, ensuring minimal light loss. Their products are widely used in medical lasers, spectroscopy, process analytics, and industrial quality assurance. FOS Inon is known for “Made in Germany” quality, long service life, and reproducible performance, making them suitable for specialized replacement sensors (FOS Inon Optics) . fionec GmbH provides innovative precision optical fiber measurement systems and tailor-made fiber-optic components. They develop custom measuring solutions, perform simulations, and offer contract measurements. fionec also distributes Corning® optical fibers for metrology, laser technology, life sciences, and telecommunications, making them a versatile supplier for replacement fiber optic sensors and components (fionec GmbH) . FOC – fibre optical components GmbH is a family-owned company based in Berlin-Adlershof, producing high-quality fiber optic components for over 30 years. They serve network operators, energy providers, research institutions, and industrial clients. FOC manufactures components in-house, ensuring quality control and reliability, which is essential for sensor replacement in critical applications (FOC GmbH) .

Considerations for Choosing a Manufacturer

• Application Requirements: Determine whether you need FBG sensors, temperature sensors, or custom optical assemblies.

• Precision and Reliability: Look for manufacturers with high-precision production and proven performance in harsh environments.

• Customization: Some companies, like FOS Inon and fionec, offer tailored solutions for specific project needs.

• Regulatory Compliance: Ensure the manufacturer adheres to EU standards and environmental regulations. These German manufacturers provide a combination of precision, reliability, and customization, making them suitable for replacing or upgrading fiber optic sensors in industrial, medical, or research applications.

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