



Slovakian Fiber Optic Sensor Original Manufacturer

Article Overview

Sylex s.r.o. is the leading original manufacturer of fiber optic sensors in Slovakia.

Sylex s.r.o., founded in 1995 and based in Bratislava, Slovakia, is a world-class original design manufacturer specializing in high-quality fiber optic sensors and optical interconnect solutions . The company develops and produces FBG-based fiber optic sensors, fiber array assemblies, and automated monitoring systems for a wide range of industries, including civil engineering, aerospace, defense, energy, transportation, and process control .

Key Products and Technologies

- o Fiber Array Sensors (FFA-01): Configurable number of FBG elements with adjustable spacing, suitable for direct gluing to surfaces to monitor strain and structural changes .
- o Automated Monitoring Systems: Turnkey solutions using proprietary sensors, interrogators, and network accessories for real-time structural health monitoring .
- o Optical Interconnect Solutions: MMC, MTP(R), PRIZM(R) LightTurn(R), and Duralino Fanout(R) assemblies for high-density fiber connections, including polarization-maintaining fibers for photonic integrated circuits (PICs) and co-packaged optics .
- o Custom FBG Sensors: OEM and research-focused sensors with precise angle-polished fibers and ribbon processing for low insertion loss and high signal integrity .

Industry Applications

Sylex's fiber optic sensors and systems are used in:

- o Civil and geotechnical engineering for structural monitoring
- o Energy and utilities for transformer and grid monitoring
- o Aerospace and defense for strain and vibration sensing
- o Telecom and datacom for high-density optical interconnects
- o Research and development for custom sensing solutions

Capabilities

Sylex offers in-house design, manufacturing, and R&D collaboration, allowing for rapid prototyping, high-volume production, and custom-tailored solutions. Their expertise includes angle polishing of fibers, ribbon fiber processing, and integration with photonic systems, ensuring high performance and reliability . For more information, Sylex maintains a detailed website with product specifications and contact options: Sylex



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Fiber Optics In summary, Sylex s.r.o. is the primary Slovakian original manufacturer of fiber optic sensors, offering advanced FBG-based sensing systems, optical interconnect solutions, and custom monitoring technologies for industrial, research, and high-tech applications .

SYLEX is a mid-size company founded in 1995 and a world-class contract manufacturer of high-quality fiber-optic interconnect

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SYLEX is a leading original design manufacturer that specializes in high-quality optical interconnect solutions, including various fiber

Find 3800+ fiber optic sensor manufacturers for industrial, medical, and telecom applications. Need high-precision

Slovakia Optical Sensor Market (2025-2031) | Trends & Outlook Top Fiber Optic Telecommunications Companies in Slovakia Foss

The sensor industry in Slovakia is characterized by several key considerations that potential investors and businesses should be

Among all the reported applications, optical waveguides have been widely exploited to

Discover all relevant Optical Sensor Manufacturers in Slovakia, including SYLEX s.r.o. and Photoneo

This portfolio directly supports Slovakia's diversified industrial base--from energy generation to manufacturing--by providing reliable,

Local Application Scenarios in Slovakia ? Automotive Smart Plants Factories like Jaguar Land Rover in Nitra and Volkswagen in

As a leading independent provider of fibre optic-based distributed sensing solutions, Silixa exists to secure a safer, more sustainable

We create the most compelling fiber optic sensing solutions, empowering the world optimize assets, protect lives and the environment.

Slovakia Fiber Optics Market Top 5 Importing Countries and Market Competition (HHI) Analysis Slovakia's

fiber optics import Market

19.1 The Buyer shall comply with all laws, statutes, regulations, and codes relating to antibribery and anti-corruption applicable in

Hier sollte eine Beschreibung angezeigt werden, diese Seite lässt dies jedoch nicht zu.

Spolocnost Sylex je prvotriednym vývojárom originálneho dizajnu prvotriednych optických prepojovacích

Web: <https://www.supremeacademicresearch.co.za>

