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Fiber Optic Sensors and Applications XV

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In the broadband communication, the fiber optic network deployment is increasingly applied to today's cloud applications and high-demanding multimedia streaming service. The fiber optic transmission has large advantages over the existing copper wire as the optic fiber cable carries much lower attenuation and interference. To improve the technology of Optical Fiber Ethernet with highly-flexible, highly-extendable and easy-to-install features, the data exchange speed of Optical Fiber Ethernet is up to 40Gbps and the distance of Gigabit Optical Fiber is up to 120km. PLANET provides many kinds of Point-to-Multi Point Managed Fiber Switches and CPE especially for Metro Ethernet applications. A fiber-optic sensor is a sensor that uses optical fiber either as the sensing element ("intrinsic sensors"), or as a means of relaying signals from a remote sensor to the electronics that process the signals ("extrinsic sensors"). Fibers have many uses in remote sensing. Depending on the application, fiber may be used because of its small size, or because no electrical power is needed at the remote location, or because many sensors can be multiplexed along the length of a fiber by using light based fiber optic sensors are the most widely used sensor. types. In this paper, an overview of fiber optic sensors and their applications are presented.

Keywords: Fiber optics, optical fiber sensing, fiber Bragg gratings (FBGs), interferometry, microbending, smart. Fiber optic sensors can be classified under three categories: The sensing location, the operating principle, and the application. Based on the sensing location, a fiber optic sensor can be classified as extrinsic or intrinsic. Fiber Optic Sensors. The New Standard in Simplicity. MEGA-Power, MEGA-Easy & MEGA-Stable. KEYENCE has further improved the top selling FS fiber sensors. New features on the FS-V30 will help you to solve your sensing needs. 2. Digital Fiber Optic Sensors. FS-V30 Main Features. World's most powerful beam.