OPTICAL FIBER SENSORS



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Extrinsic fiber optic sensors use an optical fiber cable, normally a multimode one, to transmit modulated light from either a non-fiber optical sensor, or an electronic sensor connected to an optical transmitter.

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The basic concept of the intrinsic fiber optic sensor is shown in the following figure. Intrinsic Type Fiber Optic Sensors Extrinsic Type Fiber optic Sensors. In extrinsic type fiber optic sensors, the fiber may be used as information carriers that show the way to a black box.

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What is a Fiber Optic Sensor Sensor Basics Introductory

The optical fiber sensors are divided into two categories: thrubeam and reflective. The thrubeam type comprises a transmitter and a receiver. The reflective type, which is a single unit, is available in 3 types: parallel, coaxial, and separate. The 3 are based on the shape of the crosssection of the optical fiber.

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