

We demonstrate the capacity for fast dynamic reconfiguration of optical code-division multiple access (OCDMA) phase en/decoders based on fiber Bragg gratings and a thermal phase ...

This invention relates generally to displacement sensing optical encoders, and more particularly to an optical encoder utilizing optical fibers as receiver elements to provide an...

We propose a fiber Bragg grating (FGB) encoder/decoder for encoding/decoding broad-band pulses to implement hybrid two-dimensional (2-D) wavelength-time optical

Exemplary embodiments pertain to the art of encoded optical fibers using Fiber Bragg Gratings (FBGs). FBGs are wavelength-selective reflectors that can be use in fiber optic...

Optical position encoders have been invented and investigated for several decades for precision measurement. In this article, a comprehensive survey on the optical position encoders, ...

Fiber Bragg grating (FBG) is a relatively novel method used for network health monitoring that has a number of advantages including high accuracy, multiplexing, electromagnetic interference ...

This article will focus on the development of two-dimensional, three-dimensional and multi-degree-of-freedom grating encoders, exploring how the measurement degrees of freedom have ...

Several typical encoder/decoder method based on optical fiber grating for optical code division multiple access system is presented.

This paper therefore concentrates on recent advancements in grating encoders applied to two-dimensional, three-dimensional, and multi-axis displacement and angular measurements. ...

What is Fiber Bragg Grating Encoders in OCDMA? Fiber Bragg Grating (FBG) encoders implement spectral and phase coding in incoherent optical code-division multiple-access (OCDMA) systems ...

We demonstrate the capacity for fast dynamic reconfiguration of optical code-division multiple access (OCDMA) phase en/decoders based on fiber Bragg ...

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