

# NEWS RELEASE

ElectroniCast Consultants



## **10-Year Forecast – Fiber Optic Sensors**

***According to ElectroniCast, the combined use of Distributed and Point fiber optics sensors are forecast to reach \$5.98 Billion in 2026...***

***Aptos, CA (USA) – May 9, 2017*** -- ElectroniCast Consultants, a leading market/technology forecast consultancy, today announced the release of their market forecast and analysis of the global consumption of Fiber Optic Sensors.

According to the study, the combined use of Distributed and Point (local) fiber optics sensors reached \$3.38 Billion last year (2016), and the worldwide value is forecast to reach \$5.98 Billion in 10-years (2026). Market forecast data in this study report refers to consumption (use) for a particular calendar year; therefore, this data is not cumulative data.

Both the American region and the EMEA region held similar market share in the overall (distributed- and point-types) fiber optic sensor value last year. The Europe, Middle East, Africa region (EMEA) held a very slight lead in relative market (value) share last year; however, the Asia Pacific region (APAC) is projected to take-over the leadership position during the forecast period.

The EMEA region is forecast to have a strong role in the use of distributed fiber optic systems, driven by the region's use of systems in aviation, as well as in the Petrochemical, Natural Resources, Energy/Utility application categories.

In terms of fiber optic point sensors, the American region is forecast to maintain the market share lead throughout the 1st-half of the forecast period (2016-2021), mostly led by the use of Fiber Optic Gyros (FOGs) in the Military/Aerospace application category. The consumption values are based on the end-user application and the end-user region.

FOGs held a 65 percent market share of the worldwide Point fiber optic sensor consumption value in 2016. "All regions, thanks mainly to increases in the use in aviation and military critical mission applications (Unmanned Aerial Vehicle/UAV and missile guidance, navigation, north finding/tracking, robotics, aviation and aeronautics and other) are forecast to show impressive increase consumption quantity (volumes) and values for the FOG systems," said Stephen Montgomery, Director of the Fiber Optics Components group at ElectroniCast Consultants.

The market forecast of the Distributed Sensors is segmented by the following applications:

- Manufacturing Process/Factory
- Civil Engineering/Construction (buildings, bridges, tunnels, etc)
- Military/Aerospace/Security
- Petrochemical/Energy/Utilities/Natural Resources
- Biomedical/Science

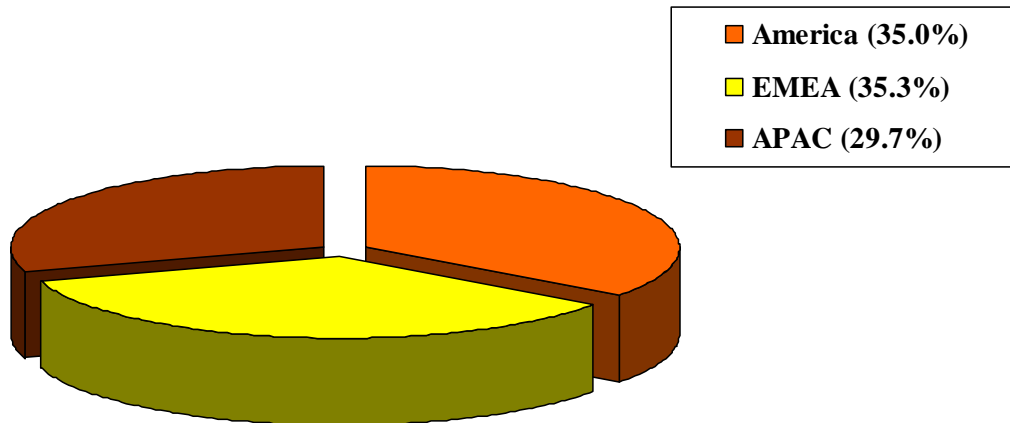
The Fiber Optic Point Sensor Forecast further segmented by the following sensing/measuring quantity (measurand) types:

- Mechanical Strain
- Temperature
- Pressure
- Chemical, Gas, Liquid
- Vibration, Acoustic, Seismic
- Displacement, Acceleration, Proximity
- Electric, Current and Magnetic Field - Fiber Optic Sensors
- Rotation (such as Fiber Optic Gyroscopes: FOGs)

“ElectroniCast counts each Point fiber optic sensor as one unit; however, the volume/quantity (number of units) of Distributed fiber optic sensors is based on a complete optical fiber line/link, which we classify as a system. Since a distributed optical fiber line (system) may have 100s of sensing elements in a continuous-line, it is important to note that we count all of those sensing elements in a distributed system as one (system) unit – only. Distributed fiber optic sensor systems involve the optic fiber with the sensors embedded with the fiber; also included is the optoelectronic transmitter/receiver, connectors, optical fiber, cable (fiber jacket) the sensor elements, and other related components,” Montgomery added.

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Continuous Distributed and Point Fiber Optic Sensor  
Global Consumption (\$3.38 Billion in 2016)  
Source: ElectroniCast Consultants



This market forecast report is available immediately from ElectroniCast Consultants. For detailed information on this or other services provided by ElectroniCast, please contact Theresa Hosking, Marketing/Sales; [thosking@electronicastconsultants.com](mailto:thosking@electronicastconsultants.com) (Telephone/USA: 831-708-2381)

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