

### Infrastructure & Cities Sector Building Technologies Division

Zug (Switzerland), November 30, 2011

#### **FibroLaser III – a crucial component for fire safety in tunnels and industrial facilities**

**The Siemens Building Technologies Division is introducing the next generation of its line type heat detection system FibroLaser. This completely redesigned fire safety solution offers even faster and more precise detection over a detection area of up to 2x 10 kilometers in length. The technology is based on a fiber-optic cable and is equally suited for road and train tunnels as well as for industrial applications.**

With more than 2,000 installed kilometers of sensor cable and more than 1,200 controllers in operation, the Siemens Building Technologies Division's FibroLaser system is the most successful line type heat detection system on the market. The third generation of this proven fire safety solution more than doubles the maximum detection distance to 10 km while offering up to 1,000 alarm zones for even more precise and faster detection. Each of these alarm zones can be configured for different alarm criteria and used to control a variety of functions such as alarm elements, ventilation, or lighting.

The next-generation controller can be equipped with up to 40 inputs and 106 relay outputs, greatly increasing the available control options compared to the previous version. With its integrated Ethernet interface, the controller can easily be added to any network; it also has an RS232 interface to facilitate the upgrade of older systems. The FibroLaser III controller operates in an ambient temperature range from -10 to 60°C and requires no fans for cooling, which makes the entire system even more impervious to outside influences.

The fire safety solution is complemented by the new FibroManager control software which is designed to make commissioning as smooth as possible using country-specific defaults and provides wizard-based support to make it easier for service technicians to perform tests and checks. In addition, the software offers extensive visualization of the FibroLaser installation on a local terminal or over the Internet.

The new generation retains all the proven features of the FibroLaser System, including 100% maintenance-free sensor technology, wear-free sensor design, and an optical system impervious to dirt, dust, moisture, corrosive environments, electromagnetic fields, and radioactive radiation. As before, the system is modular, allowing controllers, cables, and network components to be replaced and upgraded individually.

FibroLaser III is sensitive to both thermal radiation and convection, providing for rapid and deception-free fire detection over large distances with a spatial resolution of 0.5 meters. This makes this rugged system eminently suitable for use in rough environments, including road and train tunnels, as well as industrial applications such as conveyor belts, cable trays, and production lines. FibroLaser III is VdS-certified to be compliant with prEN 54-22.

For more information about FibroLaser III, please visit [www.siemens.com/fibrolaser](http://www.siemens.com/fibrolaser)

The **Siemens Infrastructure & Cities Sector** (Munich, Germany), with approximately 87,000 employees, offers sustainable technologies for metropolitan areas and their infrastructures. Its offerings include integrated mobility solutions, building and security technology, power distribution, smart grid applications, and low- and medium-voltage products. The Sector comprises the Divisions Rail Systems, Mobility and Logistics, Low and Medium Voltage, Smart Grid, Building Technologies, and Osram AG.

For more information, visit <http://www.siemens.com/infrastructure-cities>

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