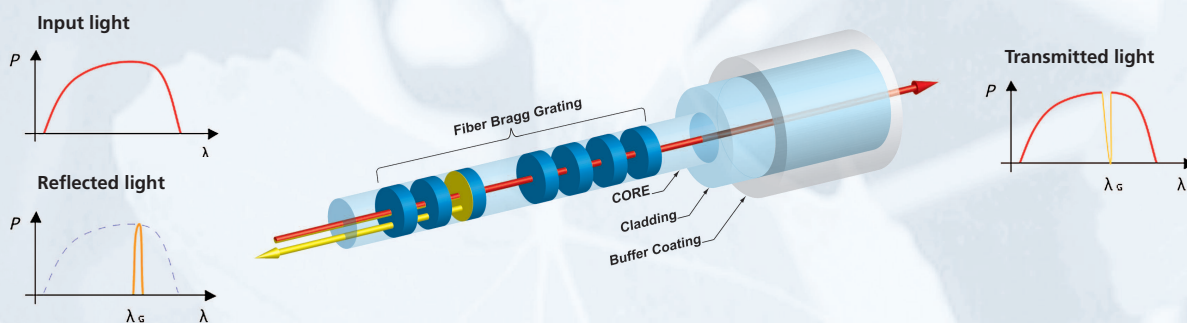


... for an easy management of your medical devices

The integration of a series of Fiber Bragg Gratings (FBG) allows the unique identification of a section of optical fiber. This Optical Line Identification (OLID) can be easily read using an interrogator which is integrated inside the medical unit. This technology is very useful for identifying medical equipments which are intended to be used only once or for a limited number of times. As a result, it reduces the potential for human errors and helps to ensure that medical equipment is used correctly.

TECHNOLOGIES INVOLVED

A **Fiber Bragg Grating (FBG)** is a Bragg reflector, which is written into the fiber core at defined intervals. These gratings reflect specific light wavelengths and relay all others.



Features

- ▶ OLID's are written directly into the fiber, and cannot be modified or deleted
- ▶ FBG's reflection wavelength may be selected in a different wavelength range, in order to avoid any interference with the transmitted signal
- ▶ OLID can be integrated in the medical equipments
- ▶ The interrogator is a simple device that can be easily integrated in the medical unit for identifying medical equipments. This allows to control the laser delivery interlock system and to control laser delivery system
- ▶ Irrelevant insertion loss at transmitted wavelength
- ▶ FBG technology is not affected by magnetic fields, and is suitable for use with diagnostic devices in combination with the E-2000™ non-magnetic and EtO sterilizable connector
- ▶ A wide range of codes are permitted

