



SENSFIB Hull™

Safe and cost-effective operation of a vessel requires exact knowledge of the ship's design and awareness of the operational risks and their consequences. One of the challenges involved has been the lack of information to the bridge about the actual load on the hull. Historically this has been resolved relying on navigators' judgment and experience, but with Light Structures' technology it is possible to get live data via the **SENSFIB Hull™** Hull Stress Monitoring solution.

By monitoring the stress responses in the hull structure during operations we can provide the navigators with online information about the load margins - and provide support for the decision-making. The same data can be post-processed to give valuable input to maintenance planning and fleet utilization.

SENSFIB Hull™ benefits tankers, LNG carriers, bulk carriers, offshore ships and structures, container ships, navy and advanced hull design vessels.

The Fiber Bragg Grating (FBG) optical sensing technology gives **SENSFIB™** a competitive edge compared to the conventional strain gauges.

Hull Stress Monitoring - operational control

- ◆ Fiber optic technology
- ◆ Dynamic operator guidance
- ◆ Reduced maintenance cost
- ◆ Extended hull lifecycle
- ◆ Approved by leading classification societies
- ◆ Improved fleet utilization
- ◆ Attractive ROI

