Fiber-Optic System for Rotational Events & phenomena Monitoring (FOSREM) is an interferometric optical fiber sensor designed to continuously observe rotational effects. It uses closed-loop configuration which is based on the compensatory phase measurement method as well as specific electronic system.

The main advantages of FOSREM - FOS5 type:
- sensitivity: $2 \cdot 10^{-8}$ rad/s/Hz$^{1/2}$
- wide frequency bandpass: from DC to 1000 Hz
- maximum detected rotation rate: 10 rad/s
- compact hermetically sealed construction: diameter - 312 mm, height - 85 mm
- weight: less than 10 kg
- stable work at temperature range: -10°C – +40°C
- power consumption: less than 25 W
- web-based management Interface
- wide application field.

2. Change every 1-2 min; number of changes: 6
3. Distance from FOS: 139 m – 96 m
4. Distance between changes: 10 m
5. Number of excitations in order: 4, 3, 3, 4, 3
6. Frequency: 7 – 120 Hz; duration 15 s

1. expl_huddle= 500g; distance from FOS 200m; 15:16
2. expl_test 150g; distance from FOS 33 m; 10:26