



High precision FSI optical biaxial inclinometers to monitor the structural setting of the elements



### Technical Features

- Measuring range:  $20^{\circ}$  ( $-10^{\circ} \div +10^{\circ}$ )
- Resolution:  $0,1^{\circ}$
- Accuracy:  $\pm 0,05^{\circ}$
- Operating Temperature range:  $30^{\circ}\text{C} \div 110^{\circ}\text{C}$
  
- EMI Immunity
- IP68 Protection
- ATEX compatibility

## SECTA I2X

SECTA I2X is an FSI-based biaxial inclinometer able to measure the vertical axis inclination of retaining walls, piles, structural elements of buildings and infrastructures.

Based on a special configuration of FSI optical sensors and allocated inside an IP68 certified die-cast aluminium case, SECTA I2X can operate in harsh chemical conditions, explosive environments (ATEX certified) and fully immersed in a liquid.

### Installation

SECTA I2X is fixed through bolts and a special double loop bracket to the element to be monitored.

Each inclinometer I2X is connected through APC/FC and dedicated junction box to the main optical fiber backbone which connects all the sensors to SECTA Control Unit PCU – GEN I.