

## Description

The EX-Large sensor is similar to the optical extensometer but designed for longer measurement ranges of up to 0.5 m. It is based on fiber-optic measurement technology, so that its advantages include the fact that it can also be mounted at locations only accessible during assembly and not later during remote monitoring.

Two robust, nested cylinders accommodate the mechanism used for measuring the axial displacement of the EX-Large.

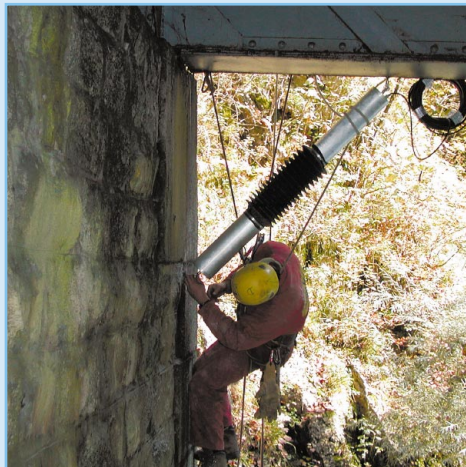
In accordance with available budgets and anticipated risks, the EX-Large can be operated in either the 'permanent' or 'sleeping' mode.

Picture, top right: EX-Large in the compressed state.

## Applications



EX-Large measures between abutment and bridge.



EX-Large mounting.



Detailed view of an EX-Large, zero-play attachment.

# Technical specifications

## Measuring range

Measuring range:	500 mm
Measuring base:	1260 mm to 1760 mm
Resolution:	0.1 mm
Measuring accuracy:	0.5 mm
Response speed:	Dead time = 1 ms
Repeating accuracy:	1 %
Transmission ratio and linearity:	See diagram
Temperature range:	-20 °C to +60 °C, operating range -30 °C to +60 °C, storage
Temperature sensitivity:	$15 \times 10^{-6}$ m/K
Electromagnetic compatibility:	Insensitive and neutral
Service life:	> 20 years
Connection:	Customizable fiber-optic cable with a length of up to 1 kilometer to the OSMOS monitoring station
<i>Without intermediate amplification: Sheathed optical cable with protective hose and plug connection.</i>	

## Housing

Housing dimensions:	D: 130 mm    L: 1500 mm
Weight:	21 kg
Material:	High-grade steel, aluminum
Protection class:	IP65

## Accessories

Other housings are available	On request
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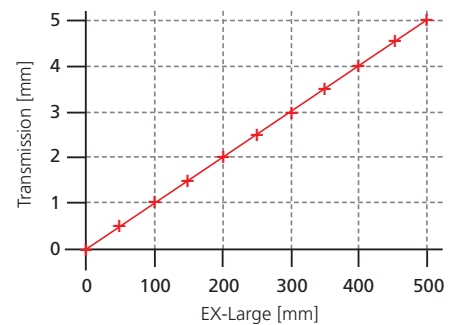
## Order

Please fill out the spaces below. Select an underscored letter or value for each of the option fields provided.

Quantity:	<input type="text"/>	
Sensor type:	<input type="text" value="EL"/>	
Connection length: Optical cable (m)	<input type="text"/>	Standard: 30 m
Operating mode:	<input type="text"/>	<u>P</u> ermanent / <u>S</u> leeping

<b>Example:</b>	
Quantity:	<input type="text" value="2"/>
Sensor type:	<input type="text" value="EL"/>
Connection length: Optical cable (m)	<input type="text" value="60"/>
Operating mode:	<input type="text" value="P"/>



Transmission ratio of the EX-Large.

# CAD drawing

