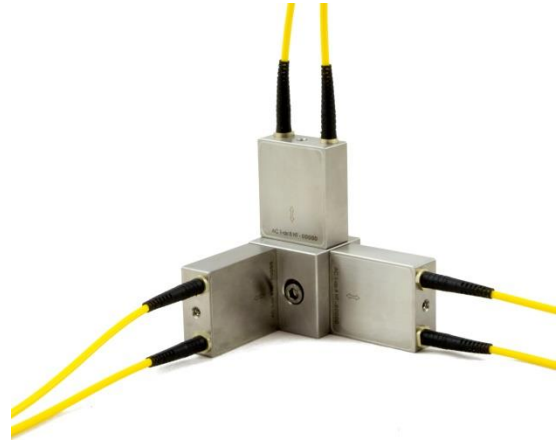


## SAA-01 Single Axis Accelerometer

### Basic characteristic

- ▲ Fiber Bragg Grating-based single-axis accelerometer, specifically designed to measure high acceleration values up to 200g.
- ▲ The ruggedized sensor will survive the utmost harsh conditions and can cope with shocks up to 500g.



Picture: Three-axis configuration

### Benefits

- ▲ Robust stainless steel
- ▲ Double-ended
- ▲ Shockproof up to 500g
- ▲ Large frequency bandwidth
- ▲ High sensitivity

### Applications

- ▲ Can be mounted on different surfaces including walls, etc.

### Performance properties

Measurement range	±200g
Sensitivity	~12pm/g ± 2pm/g
Frequency range	1 – 2000Hz
Maximum shock	500g
Sensor resonance	> 2700 Hz
Operating Temperature range	-20°C to +60°C
Ingress Protection rating	IP 67

## SAA-01 Single Axis Accelerometer

### Physical properties

Housing material	Duplex - 1.4462
Anchoring bolt	M5 / 5Nm
Dimensions (without cable) <sup>1)</sup>	34.5 x 41 x 14.40 mm
Weight (without cable)	100g
Cable type	3mm reinforced cable
Cable length <sup>2)</sup>	1mtr
Cable Bend Radius (dynamic)	40mm
Cable Bend Radius (static)	30mm
Connector type <sup>3)</sup>	FC/APC
Mounting method	Screws or using a mounting block

<sup>1)</sup> For further dimensions details see the product drawing

<sup>2)</sup> Cable length is extendable on request

<sup>3)</sup> Other connector types available on request

### Packaging

Cardboard box with dimensions: 370x290x45mm

### Quality statement

The sensor is compliant with IEC 61757-1-1:2016/Ed1.0 and IEC 61757:2018

All sensors are 100% tested and calibrated at SYLEX

The sensor is manufactured according to ISO 9001:2008 and ISO 14001:2004

### Optional accessories

- ▲ **WCP-01 Watertight connector protection** – used for FC/APC connector protection during the installation against dust and water – IP67 rated.
- ▲ **LCP-03 Longer cable pigtails** – used to extend the cable lengths from 1mtr up to 20mtr.
- ▲ **Optional 3-axis mounting block** - custom machined enclosure capable of housing three single-axis accelerometers and thus allowing subsequential measurement in all axis (more information available on request).

For more information contact our sales team at [sales@sylex.sk](mailto:sales@sylex.sk)

\* Specifications are subject to change without notice