

SAA-02 Single Axis Accelerometer

Basic characteristic

- ▲ Fiber Bragg Grating-based single-axis accelerometer, specifically designed to measure acceleration values up to 30g with high sensitivity and large frequency bandwidth.
- ▲ The ruggedized sensor will survive harsh conditions of indoor and outdoor applications and can cope with shocks up to 70g.



Benefits

- ▲ Robust stainless steel
- ▲ Double-ended
- ▲ Large frequency bandwidth (1 - 1000Hz)
- ▲ High sensitivity

Applications

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

Performance properties

Measurement range	±30 g
Sensitivity	90pm/g ± 10pm/g
Frequency range	1 – 1000Hz
Maximum shock	70g
Sensor resonance	> 1,3kHz
Operating Temperature range	-20°C to +60°C
Ingress Protection rating	IP 67

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Physical properties

Housing material	Duplex - 1.4462
Anchoring bolt	M5 / 5Nm
Dimensions (without cable) ¹⁾	45 x 62 x 22 mm
Weight (without cable)	280g
Cable type	3mm reinforced cable
Cable length ²⁾	1mtr
Cable Bend Radius (dynamic)	40mm
Cable Bend Radius (static)	30mm
Connector type ³⁾	FC/APC
Mounting method	Screws or using a mounting block

¹⁾ For further dimensions details see the product drawing

²⁾ Cable length is extendable on request

³⁾ 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

* Specifications are subject to change without notice