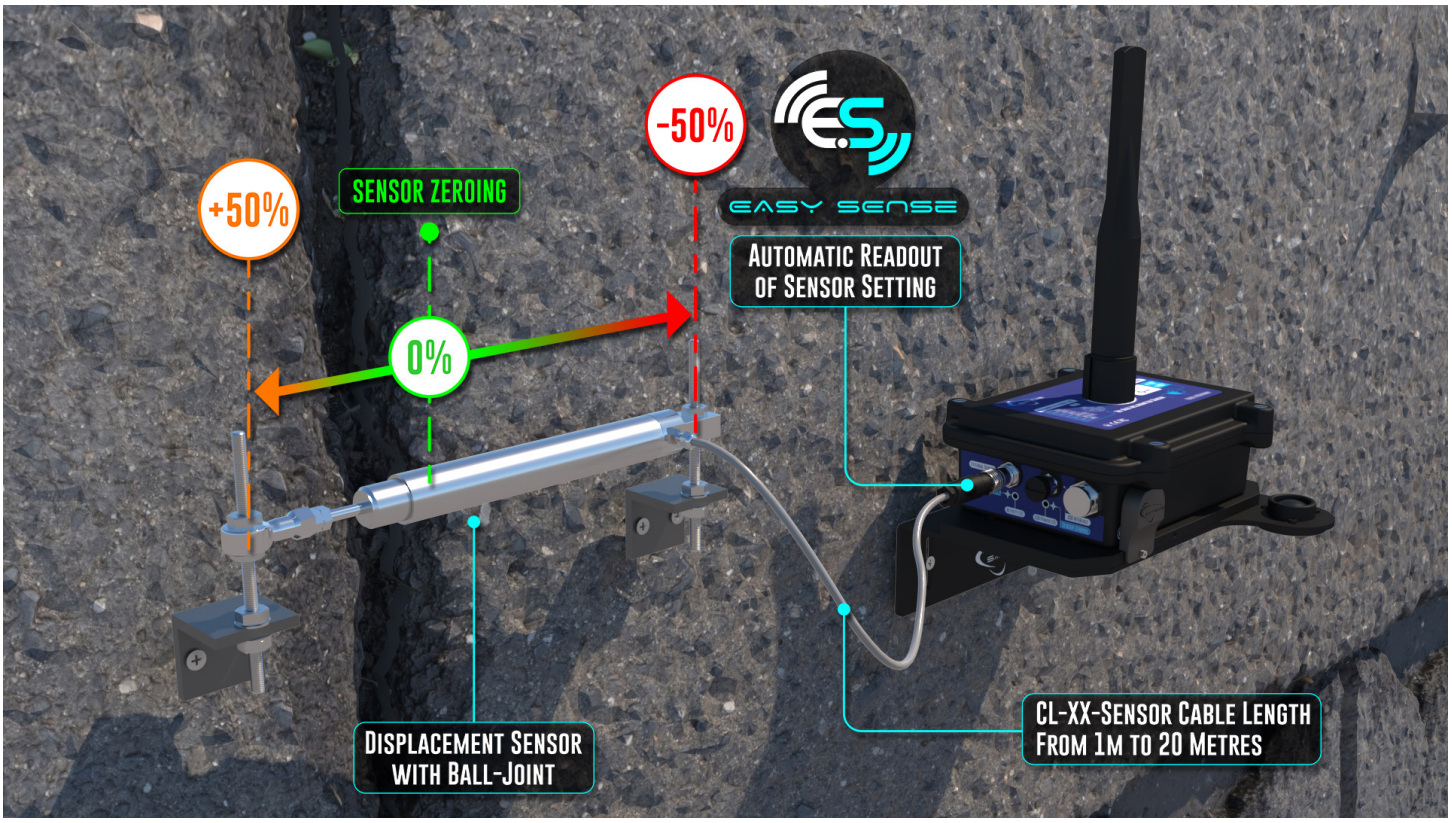
EASY-SENSE | DISPLACEMENT SENSORS

SAT-EASY-SENSE-DISP-BJ-03

- Measurement range: 50-300mm
- Long mechanical life
- Excellent repeatability: <0.01 mm

SAT-EASY-SENSE-DISP-BJ-03



1 WHAT IS EASY-SENSE FUNCTION ?

How often have you experienced false alarms due to incorrect sensor configuration or calibration?
Easy-Sense helps address this issue by automatically storing and displaying the sensor settings:

- Sensor Type and Measurement Stroke (ex: Potentiometer, Measurement stroke: 100mm).
- Sensor Calibration settings and date of calibration .
- Alarms Thresholds Values (Three levels: Critical, Severe, Minor).
- Sensor Zero-offset and date of Sensor zero offset.

• ENHANCED TRACEABILITY

The sensor's calibration settings are securely stored in its internal Flash memory, allowing for easy re-calibration using the Satevis® Link software.

• SIMPLIFIED MAINTENANCE

Users can keep the displacement sensor on-site and easily swap the Satevis® Alpha-Inc in case of sensor redeployment. There's no need to adjust the displacement sensor settings, such as alarm thresholds or zero-offset values.

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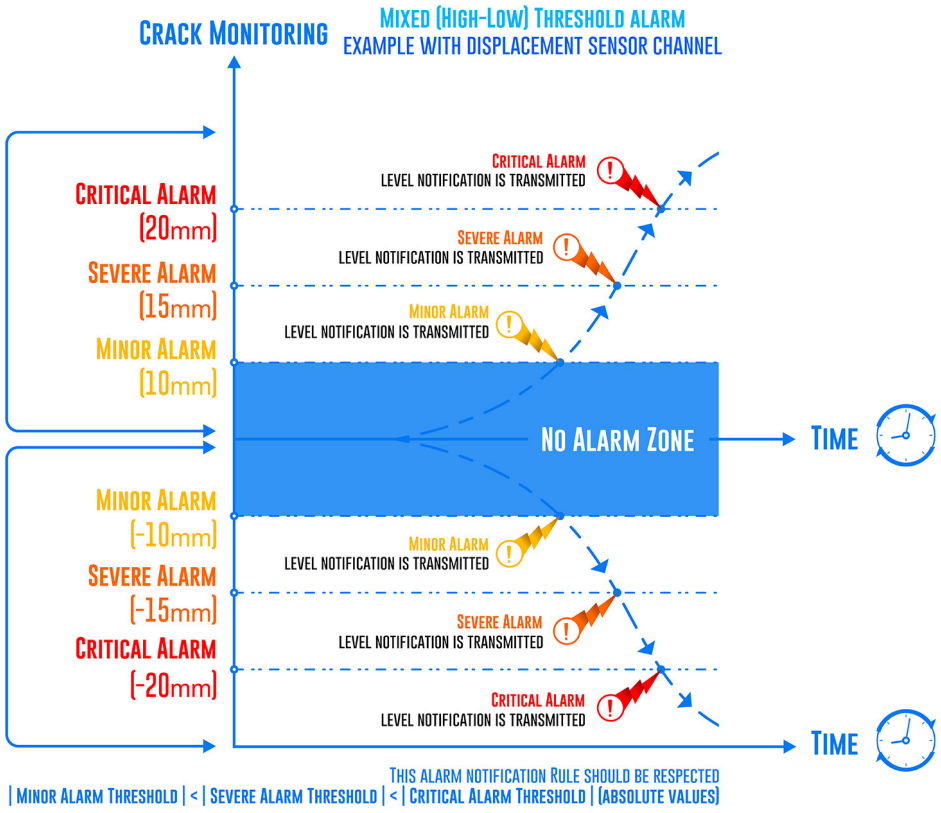
• Increased Flexibility

The sensor's zero-offset can be adjusted remotely via the Satevis® cloud application (or a third-party cloud application).

• Advanced Alarm Management

Three types of alarm thresholds are available:
- Low Alarm Threshold: Triggers an alarm when a data measurement falls below the set threshold.
- High Alarm Threshold: Triggers an alarm when a data measurement rises above the set threshold.
- Mixed Alarm Threshold: Triggers an alarm when a data measurement changes in two opposite directions.

Additionally, three alarm severity levels are available, allowing users to direct notifications to different emails or activate a dry contact:
- Minor Level: The lowest level of alarm.
- Severe Level: Medium level of alarm notification.
- Critical Level: Highest level of alarm, requiring field intervention.



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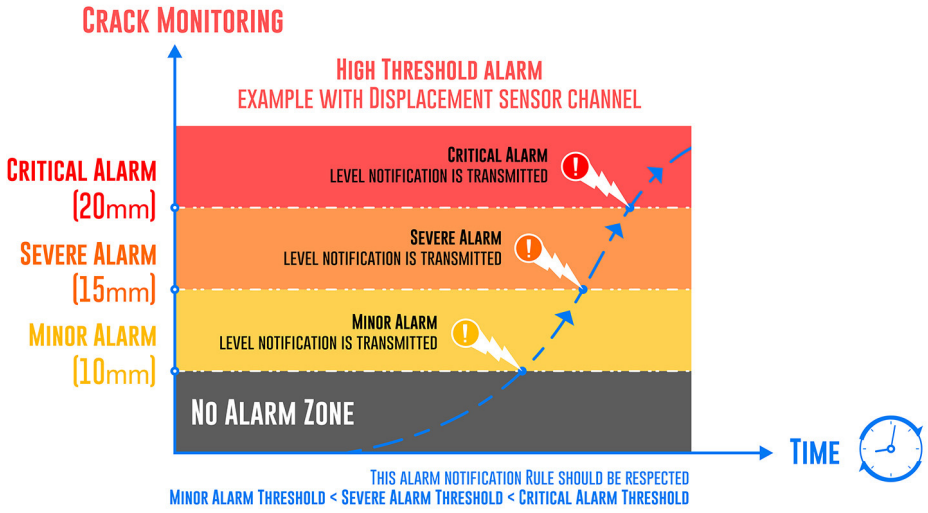
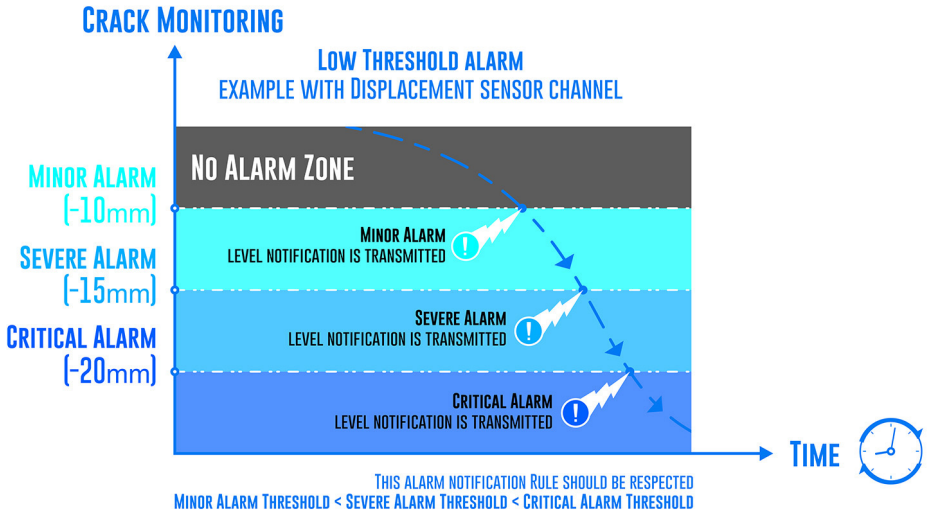




• SENSOR ZEROING

Sensor zeroing can be done by holding a magnet on Sensor Zeroing Label or remotely from Satevis® Cloud application (or Third-Party Cloud Software).

TECHNICAL SPECIFICATIONS

SAT-EASY-SENSE-DISP-BJ-03

PRODUCT REFERENCE

SAT-EASY-SENSE-DISP-BJ-03- MS-YY -CL-XX

MS-YY - Measurement stroke
50mm, 100 mm, 150mm, 200mm, 250mm, 300mm
CL-XX– SENSOR CABLE LENGTH
from 1m to 10 meters

Example: SAT-EASY-SENSE-DISP-BJ-03-MS-100MM-CL-10M
Displacement sensor with ball Joint, Measurement stroke 100mm, Cable length 10 meters

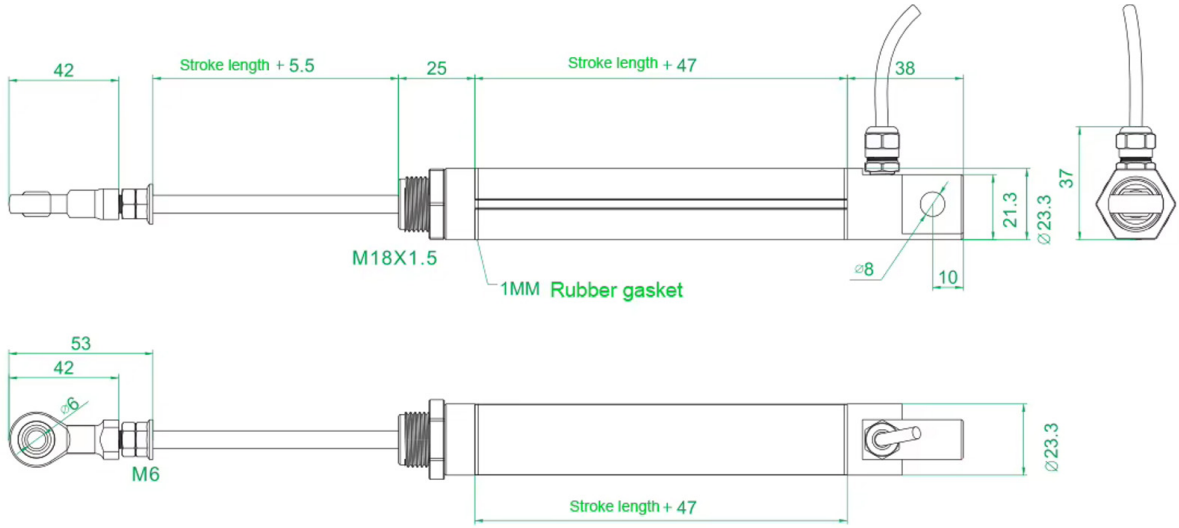
DISPLACEMENT SENSOR SPECIFICATIONS

Sensor technology	Linear potentiometer with ball joints on both sides
Measurement stroke	50mm to 300mm
Linearity	±0.05% (100-300 mm) , ±0.1% (50 mm)
Repeatability	< 0.01mm
Resolution	0.0017mm for 50mm measurement stroke 0.0034mm for 100mm measurement stroke 0.0050mm for 150mm measurement stroke 0.0067mm for 200mm measurement stroke 0.0084mm for 250mm measurement stroke 0.0101mm for 300mm measurement stroke
Resistance	5 kOhm : 50....300mm
Sensor Voltage	3.3VDC Powered directly by Satevis® device
Integrated Analog to Digital Converter	Integrated 15-bit Analog to Digital Converter
Displacement speed	< 5m/s
Mechanical Life	100 millions movements
Casing dimensions	23.3 mm of diameter
Casing material	Anodized Aluminum
Rod material	stainless steel
Rod diameter	6 mm of diameter
Mechanical mounting	Ball joints on both sides
Waterproofness	IP66
Operating Temperature	-30°C to +85°C
Connection Plug	M8-4Pins connector
Satevis® compatibility	compatible with Satevis® Alpah-Inc/Alpha-Inc Kompakt Alpha-Inc SK

SAT-EASY-SENSE-DISP-BJ-03

EASY-SENSE FUNCTION	
Internal Flash Memory	Automatic Readout of Sensor Settings: • Sensor Type and Range • Sensor Calibration settings and date of calibration ; • Alarms Thresholds Values • Sensor Zero-offset and date of Sensor zero offset
Calibration	Calibration performed at Beanair Lab.
Alarms Management	Three level of Alarms: Critical/Severe/Minor With High/low and Mixed Alarms Thresholds
Sensor Zeroing	Sensor Zeroing can be performed on site or Remotely from Satevis Cloud Application (or Third-Party Cloud software)

DRAWING



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