

# D-Fence

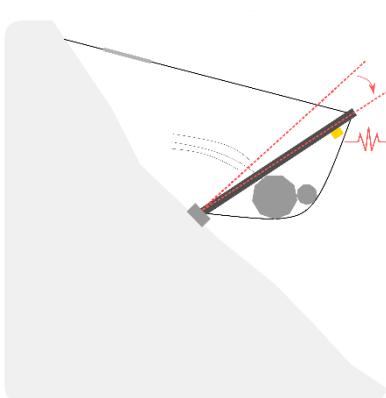
## TECHNICAL SPECIFICATION

Sensor	3D Accelerometer, Thermometer, Shock Sensor
Accelerometer range	$\pm 1.2 \text{ g}$
Tilt range	$\pm 90^\circ$
Tilt sensitivity	105 LSB/ $^\circ$ (0.0095 $^\circ$ )
Accelerometer resolution	6000 LSB/g (0.167 mg)
Sensitivity error	$\pm 0.7 \%$
Sensitivity dependence on temperature	$\pm 0.3 \%$
Accelerometer linearity error	$\pm 4 \text{ mg}$
Offset error on absolute measure	$\pm 1.15^\circ$ $\pm 20 \text{ mg}$
Offset error on absolute measure dependence on temperature	$\pm 0.57^\circ$ for X & Y, $\pm 0.86^\circ$ for Z $\pm 10 \text{ mg}$ for X & Y, $\pm 15 \text{ mg}$ for Z
Offset error drift on absolute measure	$\pm 0.23^\circ$ for X & Z, $\pm 0.34^\circ$ for Y $\pm 4 \text{ mg}$ for X & Z, $\pm 6 \text{ mg}$ for Y
Accelerometer amplitude response	40 Hz
Accelerometer operative temperature	-40 °C ÷ +125 °C
Thermometer measuring range	-50 °C ÷ +150 °C
Thermometer sensitivity	18.9 LSB/°C (0.053°C)
Shock Sensor activation	60 g*
Module dimensions	75 x 75 x 58 mm
Module weight	265 g
Communication	Wi-Fi LoRa
Power Supply	2x Li-SOCl <sub>2</sub> 3.6 V, 8500 mAh Lithium Batteries

\* other magnitudes available upon requests

DISCLAIMER: ASE S.r.l. reserves the right to change any product or technology in order to improve its reliability, functionality or design without prior notice.

MUMS instrument is covered by a patent



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