

> **Applications**

The DYfixD family is dedicated to fixed station instrumentation: on-line monitoring, offset measuring points. It is a high-performance and economical sensor.

> **Main characteristics**

- Ring shear mode
- ICP® / IEPE® integrated electronics
- Double insulation with Faraday cage

Connector : M12, glass sealing

Sensor fixing : M6



> **Specifications**

Dynamics (characteristic at 24°C) :

Sensitivity

10mV/g, 100mV/g 500mV/g, ± 10%

Frequency response at ± 10%

10mV/g 1 to 11 000 Hz
100mV/g 1 to 9 000 Hz
500mV/g 0.4 to 1 600 Hz

Frequency response at ± 3dB

10mV/g 0.5 to 16 000 Hz
100mV/g 0.5 to 14 000 Hz
500mV/g 0.2 to 3 700 Hz

Rise resonance frequency

10mV/g 35 KHz rated
100mV/g 25 KHz rated
500mV/g 16 KHz rated

Measuring range

10mV/g 800 g peak
100mV/g 80 g peak
500mV/g 16 g peak

Cross sensitivity (20Hz, 5g) <5%

Linearity ± 1 % max

Start-up time (typical)

10mV/g and 100mV/g <1sec
500mV/g <10sec

Electrical :

Grounding Insulated from the erection surface

Insulation (Housing and Faraday cage) 100 MΩ min

DC output voltage, at 4mA 12 VDC

Residual noise (24°C)

10mV/g - RMS (2.5 Hz to 25 kHz) 1700 ug
100mV/g - RMS (2.5 Hz to 25 kHz) 700 ug
500mV/g - RMS (0.5 Hz to 1 kHz) 65 ug

Power supply:

Constant current +2 to +10mA DC
Current source voltage +22 to +28 VDC

Protection

Overvoltage Yes
Polarity reversal Yes

Environment:

Temperature

In continuous operation
10mV/g and 100mV/g -55 to 120°C

Humidity/Enclosure

Insensitive, hermetic glass sealing

Max. acceleration

Shock 5 000g peak

Continuous vibration 500g peak

Mean Time Between Failures (MTBF) 10 years

Electrostatic discharge protection > 40 V

Physical :

Dimensions Hex. = 22 mm H = 45 mm

Design Ring shear

Ground

10mV/g 80 gr rated

100mV/g 85 gr rated

Connector M12 glass sealing

Material AISI 316L, DIN 1.4404 (Stainless steel)

Tightening torque (M6) 2.4 N.m



DYNAE

- > Vibratory analysis
- > Electrical analysis
- > Infrared thermography
- > Instrumentation and sensors
- > Software
- > Training

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