

> **Applications**

The DYfixL family of products is dedicated to fixed station instrumentation: on-line monitoring, offset measuring points.

The central screw and the side output are designed to allow simple and solid fixing.

> **Main characteristics**

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

Connector: M12, glass sealing

Sensor fixing: Captive hexagon socket screws M6 x 1



> **Specifications**

Dynamic (characteristic at 24°C) :

Sensitivity

10mV/g, 100mV/g, 500mV/g..... ± 10%

Frequency response at ± 10%

10mV/g 1 to 9 000 Hz
 100mV/g 1 to 6 000 Hz
 500mV/g 0.4 to 1 600 Hz

Frequency response at ± 3dB

10mV/g 0.5 to 13 000 Hz
 100mV/g 0.5 to 10 000 Hz
 500mV/g 0.2 to 3 700 Hz

Rise resonance frequency

10mV/g 32 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 et 100mV/g..... <1 sec
 500mV/g <10 sec

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 :

Courant constant +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 150 gr rated
 100mV/g 155 gr rated
 500mV/g 165 gr rated

Connector M12 glass sealing

Material AISI 316L, DIN 1.4404 (Stainless steel)

Tightening torque (M6) 2.4 N.m

Sous réserve de modification des caractéristiques techniques.

DYNAE

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

Head Office

Parc technologique Nord
 29 rue Condorcet
 38090 VILLEFONTAINE - France
 Tel. : +33 (0)4 74 99 07 10
 E-mail : contact@dynae.com

Branches :

Centre-IDF-Nord, Est, Sud-Ouest,
 Sud-Est, Ouest, Rhône-Alpes

