

10 N



AIM OF THE EXCITERS

The aim of the exciters is to transform the current produced by an amplifier into a proportional force which, applied on appropriated points of a structure, sends a vibratory movement to this structure.

MAIN FEATURES

Small electrodynamic exciter with suspended coil in a magnetic field produced by a permanent magnet of ticonal.

The low weight moving system (approximately 20 grams) allows to generate forces reaching 10 N with an acceleration without load of about 460 m/s^2 , in a frequency range up to 6,000 Hz.

APPLICATIONS

The design of its moving system, its low weight and its reduced dimensions make the EX 12 exciter particularly suitable for various applications.

Associated with an amplifier A 732/2 A, it can be used by the Universities, Schools and laboratories to carry out modal analysis on scale models and small structures.

TECHNICAL FEATURES

	COPPER COIL TC 10
Nominal force	10 N
Force factor	5 N/A
Maximum peak current	2 A
Maximum displacement	± 5 mm
Coil resistance at 20°C	2.2 Ohm
Effective moving mass	30 grams
Maximum acceleration without load	330 m/s ²
First resonance frequency without load	14,400 Hz
First resonance frequency with test weight ¹	6,600 Hz
Coil impedance at 500 Hz	4.6 Ohm
Associated amplifier	A 732
Usable frequency range ²	DC to 19,500 Hz
Magnetic circuit	Cylindrical ticonal permanent magnet
Cooling	By natural convection
Maximum connection cable resistance	0.6 Ohm
Electrical connection	By FRB CPS 31 socket
Total weight	2 kg

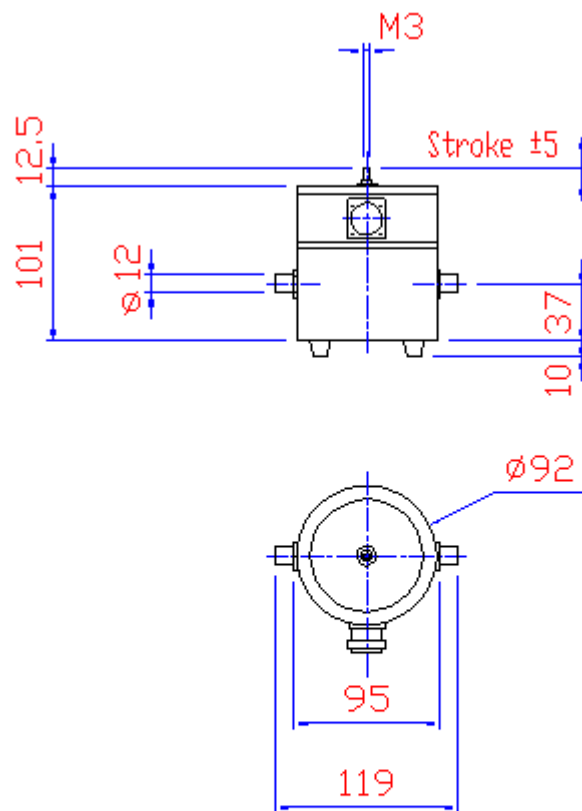
OPTIONAL ACCESSORIES:

- Cable reference: CL 4-5 (5 meters) or CL 4-10 (10 meters)
- Mechanical link reference L23; Mechanical adjustable link reference LMA 3
- Linear elastic cord suspension system reference S 12L
- Seismic support SS 12
- Trunnion reference BF 12
- Stirrup ES 12

¹ Test weight : 53 grams

² With associated amplifier at 100 % of the force and 1 % of distortion.

DIMENSIONS



EX12A EXCITER

10N

Dimensions in mm.