EXCITER EX 8

Type EX 8/4-2 A.: 4 N
Type EX 8/5-2 A.: 5 N
Type EX 8/5-4 A.: 5 N
Type EX 8/8-4 A.: 8 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

Free coil and big air gap exciter used to generate forces from 4 to 8 Newton in a frequency range reaching 9,000 Hz loaded and 18,500 Hz without load.

Small and light moving coil weighing between 9 and 14 grams according to the composition. Magnetic circuit with permanent magnet and a field strength in the air gap of about 3,600 gauss.

APPLICATIONS

The insignificant inertia and damping added to the structure under tests by its non suspended and low weight moving coil make the EX 8 exciter especially suitable for modal analysis on both scale models and small structures.

FEATURES

MAGNETIC CIRCUIT

Dimensions External diameter: 83 mm Height: 51 mm Weight: 1.5 kg
Attachment: Hole 1/4 20 Kodak thread

MOVING COIL

The magnetic circuit can receive different types of coils according to the application.

a) Rigidity: light armature (A), or rigid armature (B)
b) Maximum amplitude at the frequencies range : short coil HF or large coil BF
c) Force ranging between 4 and 8 N according to the coil and the amplifier
d) Suitable frequency according to the type of armature and coil

Coil armature weight light : 2.5 grams - rigid : 4 grams
Attachment hole: 3 ISO
Electrical connection: By flexible thread and socket FRB 002 - length: 1 m - ref.: 6943010
Cable used: Ref. CL2-5 - length 5 m; maximum resistance : 0.3 Ohm

	SHORT COIL H.F.		LARGE COIL B.F.	
	EX 8/4.2	EX 8/5.4	EX 8/5.2	EX 8/8.4
Maximum force in Newton	4	5	5	8
Coil reference	694 3001	694 6001	694 3002	694 6002
Force factor N/A	2 N/A	1.25 N/A	2.5 N/A	2 N/A
Associated amplifier	A 732/2 A	A 732/4 A	A 732/2 A	A 732/4 A
Nominal current peak amplitude	2 A.C.	4 A.C.	2 A.C.	4 A.C.
Coil impedance at 1 kHz with cable	3.3 Ohm	1.7 Ohm	5.5 Ohm	3.1 Ohm
Coil resistance at 20°C	1.6 Ohm	0.7 Ohm	2.6 Ohm	1.1 Ohm
Maximum amplitude in mm	± 1.5	± 1.5	± 3	± 3
Usable frequency range with nominal current of the amplifier*	DC to 20,000 Hz	DC to 20,000 Hz	DC to 15,000 Hz	DC to 8,000 Hz
Fundamental armature resonance in Hz				
• Without load	7,700	8,500	7,000	8,500
• With light armature (A) - in load**	4,100	4,900	3,700	4,000
- without load	17,000	18,500	16,400	17,000
• With rigid armature (B) - in load**	8,200	9,100	7,800	8,600
Coil weight (in grams):				
With light armature (A)	8.5	10.5	11	13.5
With rigid armature (B)	10	12	12.5	15

* With associated amplifier at 100 % of the force and 1 % of distortion
** 50 gram test weight: without load with an accelerometer of 3 grams

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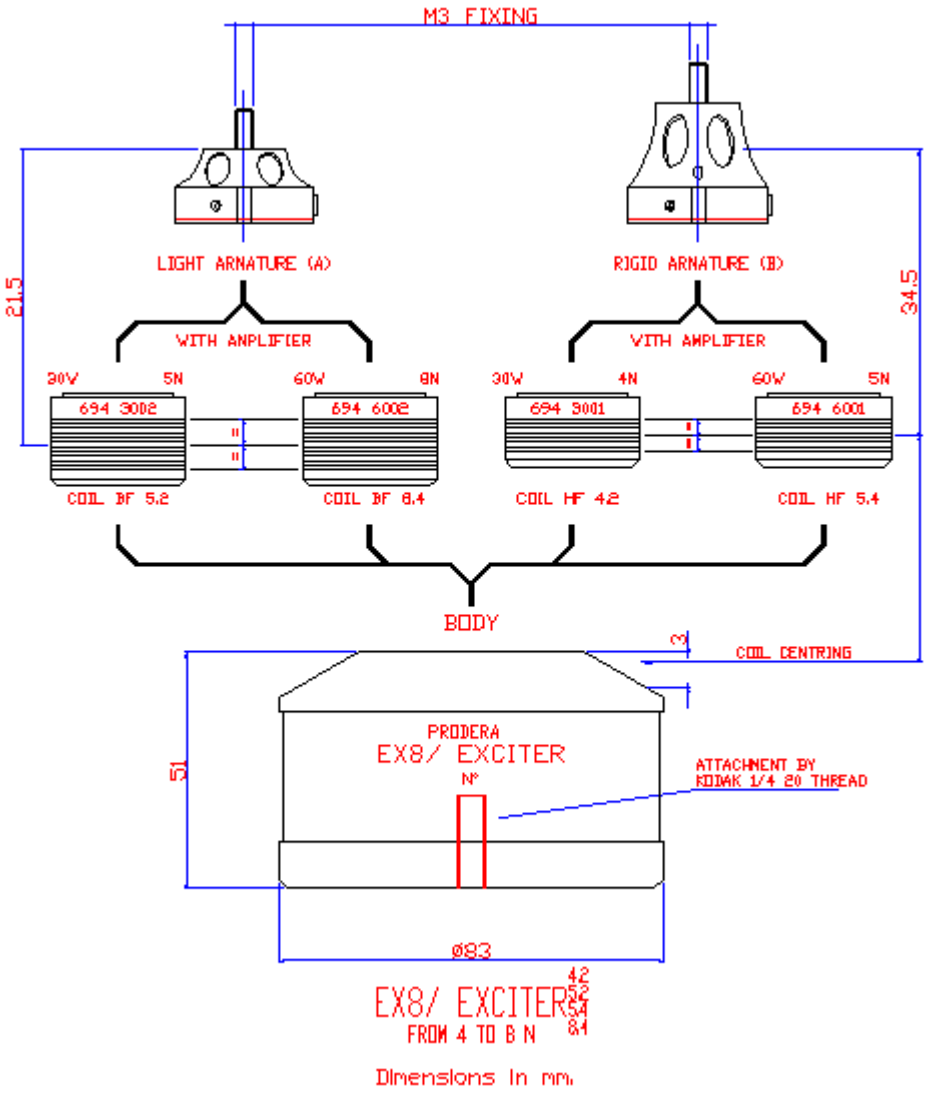
PRODERA

OPTIONS:

- Mechanical link reference L23
- Mechanical adjustable link reference LMA 3
- Linear elastic cord system reference S 8L

DIMENSIONS



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