

Update : 07/03/2019

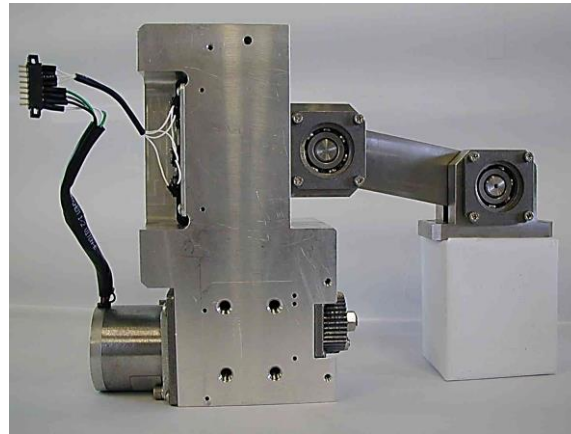


Photo non contractual

The positioner VMP 29-50-3800 provides high precision movement.

1 - Design

- The VMP29-50-3800 is driven by stepper motor. It provides an irreversible displacement through a high precision screw.
- Le VMP29-50-3800 got an anti-rotation rod system ensuring an easy application.
- Its embedded guidance allow to support radial load.
- Suivant version, il peut être utilisé dans des ambiances soumises à une classe de propreté de 10 à 100000 ainsi que dans un vide de 10⁻⁶ mbar. As per version, it can be used in atmosphere submitted to cleanliness class from 10 to 100 000 as a vacuum 10⁻⁶ mbar
- The actuator can be fitted to client request.

2 - Applications

Precision positioning of Optical and sensors.

3 - Spécifications techniques

Entraînement :

Hybrid stepper motor, bipolar 400 steps / revolution

Supply voltage	85V
Current	4,2 A/phase
Resistance	0,72 Ω /phase
Inductance	1 mH/phase

Charge capacity:

Axial : 3800 N
Radial : 30 N

Integrated detectors:

2 NC limit switch contacts

Short-term unidirectional repeatability for 2 operations: ± 5 µm

Technical specifications :

Useful stroke	29 mm
Cyclic error	±1.92 µm
Construction resolution	0,05 µm/pas moteur
Linearity	5%
Reduction ratio	150
Recommended minimum order increment	3 step/motor

Positioner:

Supplied as standard with 650 mm shielded multicore cable (8x0.22mm²)

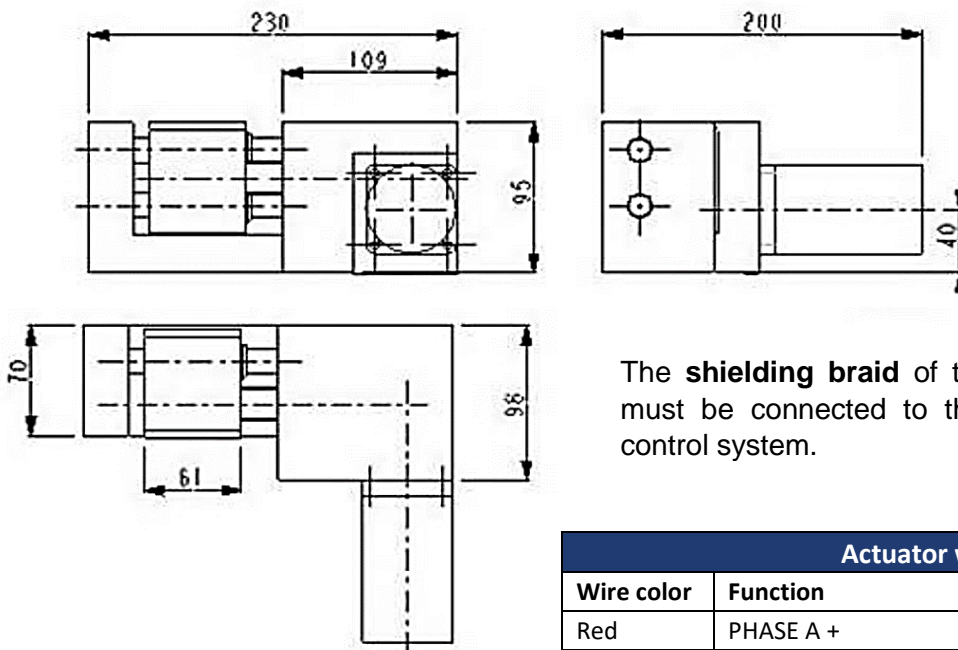
Option :

Packaging for use in cleanliness class (specify: CL 10, 100, 1000, 10000) Adaptable for use in a vacuum of 10⁻⁶ mbar.

Mass:

7,350 kg max.

4 - Dimensions



The **shielding braid** of the multiconductor cable must be connected to the metal ground of the control system.

Actuator wiring		
Wire color	Function	Observation
Red	PHASE A +	
Blue	PHASE A -	
Yellow	PHASE B +	
White	PHASE B -	
Black	Common limit switch contacts	
Brown	Front limit switch (rod extended)	NF contact
Purple	Rear limit switch (rod retracted)	NF contact
Green	LIMIT SWITCH -	