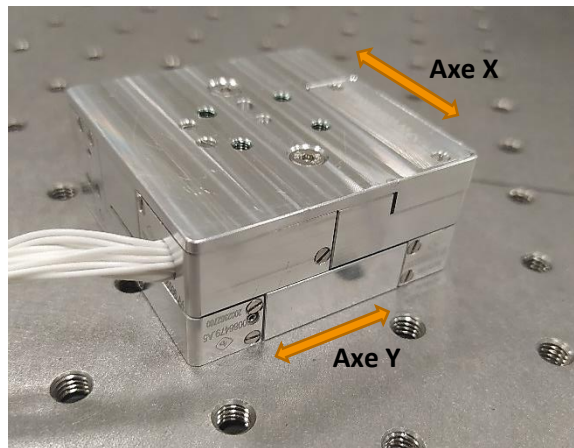


Update : 12/15/2022



### 1 - Description

- The XY positioner is made up of two stages: 2 translation stages (Tx and Ty).
- Each stage of the assembly is driven by a stepping motor (2 phases), associated with a reduction stage.
- The translational movement generated through a precision screw is irreversible (positional stability without power supply).
- The translation stages are fitted with pre-stressed linear ball guides which ensure smooth and precise movement, while guaranteeing optimum rigidity.
- The geometry and characteristics of the positioner can be adapted to the customer's request.

### 2 – System application

Positionnement précis d'optiques ou de capteurs.

### 3 - Spécifications techniques

#### TMP 2-1000-10 stage

##### Motorization :

Hybrid stepper motor 2 phases 200 steps/revolution :

Supply voltage	24V
Power	0.225 A/phase
Strength	7.3 $\Omega$ /phase
Inductance (1kHz)	1.4 mH/phase

##### Technical specifications :

Usable stroke	2 mm
Uni-directional repeatability	<5 $\mu$ m
Resolution	0.4 $\mu$ m/pm
Minimum control increment	5 step/motor
control frequency	1500Hz
vertical load capacity	10 N

**Connection:**

No connection.

**Operating temperature:**

15 to 25 °C

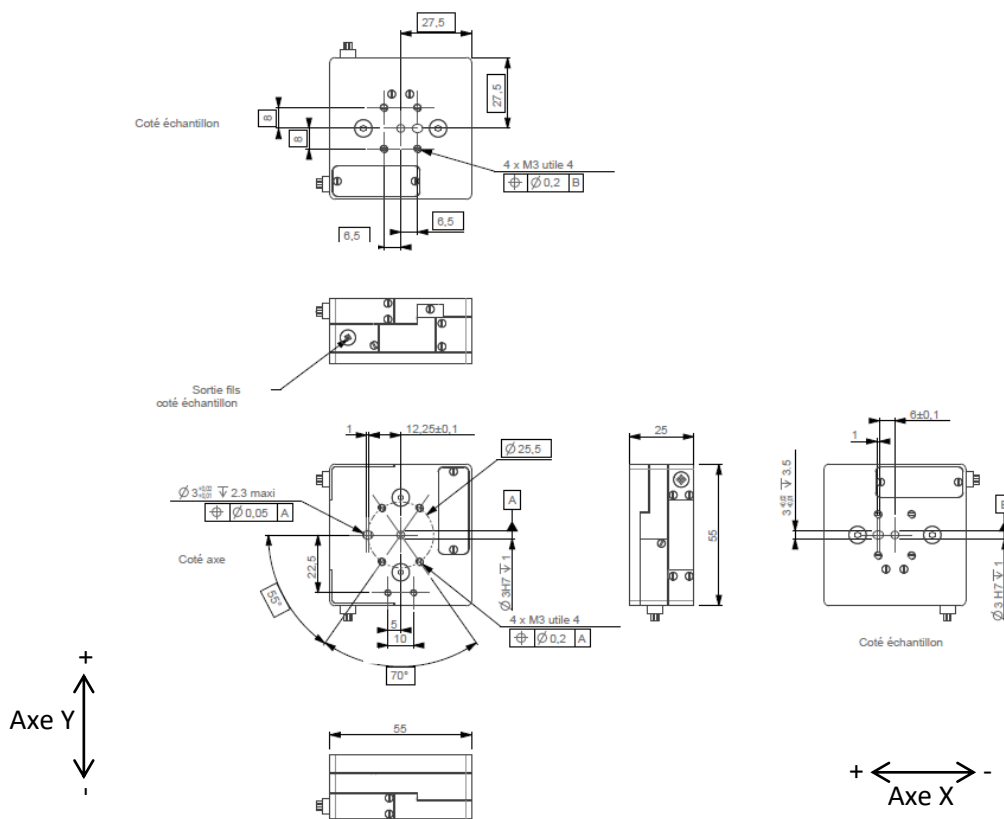
**Limit switches:**

FDC - : NF  
FDC + : NF

**Mass:**

250 g approximately

**4 - Dimensions and interfaces**



**5 - Connection**

The electrical harness is marked wire by wire for each axis:

Landmark	Designation
A+	Phase A+
A-	Phase A-
B+	Phase B+
B-	Phase B-
COM	Common contacts
FDC-	FDC-
FDC+	FDC+

**Note:** The data in this sheet are provided for information only, subject to modifications following technical improvements.

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