

Update : 12/10/2015



Non contractual photo

1 - Description

- The TMP ER 25-500-50 translation stage is driven by a step by step motor.
- It generates an irreversible translation motion through a precision screw.
- The translation stage got a linear guidance without recirculation at crossed roller bearings which perform a soft and accurate motion.
- Geometry and characteristic can be adapted upon customer's request.

2 - Applications

Accurate positioning of optical and captors.

3 -Technical Specifications

Motorization :

Stepper motor, bipolar 400 steps/revolution:

Voltage	24V
Current	0.35 A/phase
Resistance	3 G/phase
Inductance	1.8 mH/phase

Connector technology :

Standard delivery with 1m cable and SUBD 25 point plugs connector (pinout details page 2)

Limit switches :

2 optical sensors (commutation 5V)

FDC - : NO

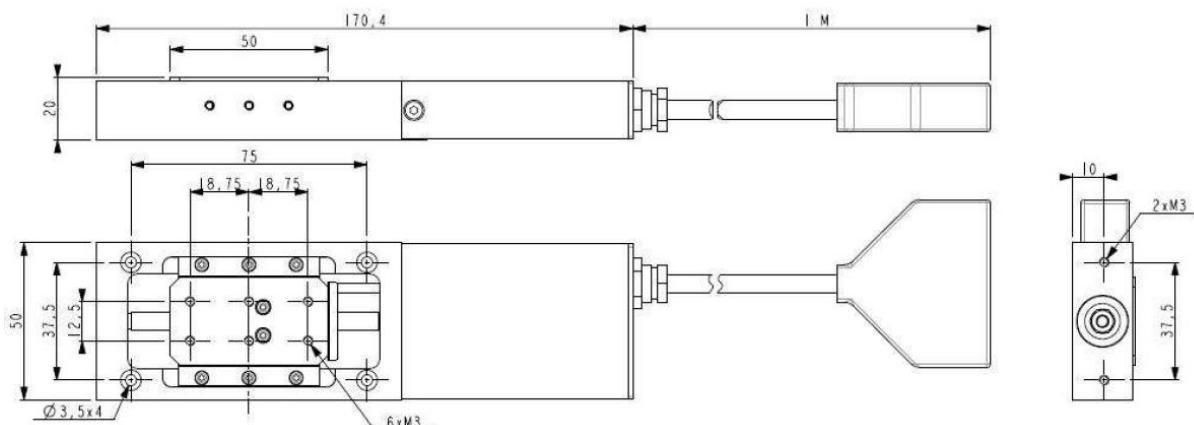
FDC + : NF

Technical specifications:

Travel range	25 mm
Unidirectional repeatability	<1 µm RMS
Mounting resolution	100 nm/pm
Minimum, control increment	5 s
Control frequency	≤ 1000Hz
Loading capacity (vertically centred)	50 N

Option : Incremental encoder

10 steps / motor's turn

Used under high vacuum atmosphereTMP ER 25-1000-50 is compatible in use in high vacuum atmosphere (10⁻⁶ mbar). Service factor must be limited at 50% in this use configuration.**Use temperature :** 19 to 23°C**Mass :** ± 900g**4 - Dimensions****5 - Pinouts Connector**

N° Pin	Designation	N° Pin	Designation
1	Phase A+	19	Encodeur A
2		20	Encodeur B
3	Phase A-	21	Supply 5V
4		22	0V (common with pin N°16)
5	Phase B+	23	Encodeur A (option)
6		24	Encodeur B (option)
7	Phase B-	25	Index
8			
14	Earth		
15	Index		
16	0V (common with pin N°22)		
17	FDC + (usually closed)		
18	FDC - (usually open)		

Nota: These data are provided, for information, subject to modifications as a result of technical improvements.

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