



DATASHEET
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Micro-Positioning Stage TMP ER 25-1000-50

Updating : 05/06/2014

page 1

- The TMP ER25 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 performs a soft and accurate motion.
- Geometry and characteristic can be adapted upon customer's request.

Applications: Accurate positioning of optical and captors.



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

Technical Specifications :

Travel range	25 mm
Unidirectional repeatability	<1 μ m RMS
Mounting resolution	165 nm/pm
Minimum Control Increment	6 pas/moteur
Linearity	<1%
Control frequency	\leq 1000Hz
Loading capacity (vertically centred)	50 N

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 sensors

Incremental encoder 1000pts/tr (4000pts interpolated)

Used under high vacuum atmosphere:

TMP 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 : \pm 900g

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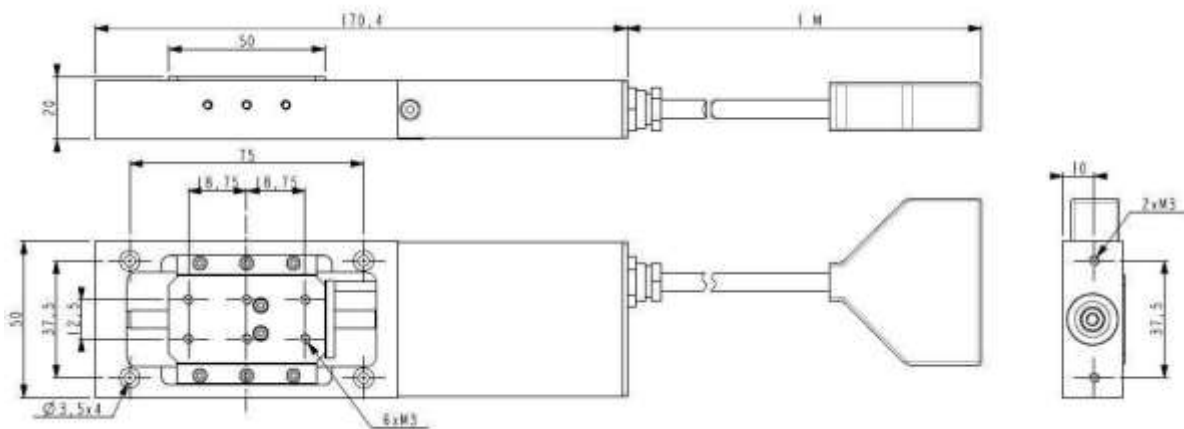


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page 2

Dimensions



Pinouts Connector

N° Pin	Designation	N° Pin	Designation
1	Phase A+	19	Encoder A
2	Phase A-	20	Encoder r B
3		21	Supply 5V
4	Phase B+	22	0V (common with pin N°16)
5		23	Encoder A/
6	Phase B-	24	Encoder B/
7		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