

MICRO POSITIONING STAGE TMP 29-33-300

DATASHEET ISP 15A814FPI0005-A

Update : 2016/01/26

The TMP micro-positioning stage provides very accurate displacements for pay loads up to 300 N.

- The TMP stage is driven by stepper motors through a very stiff and irreversible gear.
- The TMP 29-33-300 has a non-recirculating ball-bearing, providing optimal stiffness and accuracy combined with low friction.
- Thanks to these characteristics the TMP stage is a robust and accurate industrial equipment. It can be adapted to fit dedicated requirements.

Applications: Optics, Sensors, Structures.



Non contractual photo

1 - Technical Data

Motorisation :

Hybrid stepper motor, bipolar, 200 steps/rev.

Supply voltage	24 to 48V
Current	0.6 A/phase
Resistance	3.5 Ω/phase
Inductance	1.2 mH/phase

Travel range	29 mm
Resolution High Resolution (HR option)	33nm / motor step 16nm / motor step
Minimum command increment	2 motor steps
Error RMS	≤ 75nm + 5% of stroke
Hysteresis	≤ 5µm
Speed (3000steps/s)	100µm/s

Connector on standard version : male SUB D9

Maximum load :

Axial, radial and transverse up to 300N. Combined load cases must be validated by ISP SYSTEM

Integrated sensors :

• 2 End Of Travel switches, normally closed • 1 origin switch, activated at middle stroke, Short term unidirectional repeatability for 10 movements : \pm 10 µm RMS

Options:

- Compatibility with ISO6 cleanliness
- Version for high vacuum (low operation factor)

Mass : 1.7 kg Optimal working temperature: 15 to25 °C Operation factor: according to the application, please ask ISP SYSTEM.

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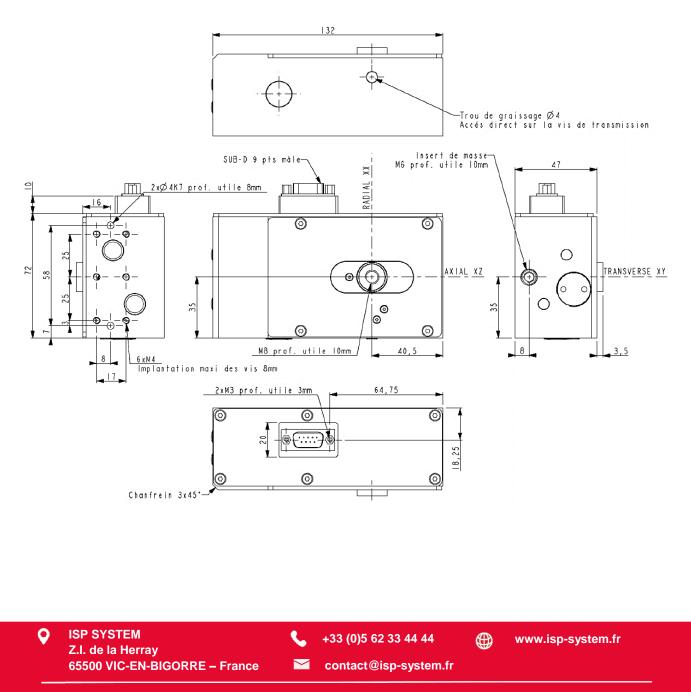
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2 - Dimension (mm)



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