



## MICRO-FORCE ELECTRICAL ACTUATOR $\mu$ AME 17

**ISP SYSTEM® patented**

update : 2014/06/2

page 1

- *Millinewton resolution with high stability*
- *Very small diameter allows proximity of multiple actuators*
- *Bidirectional force +/- 17 Newton*
- *Precision design for accurate nanometric deformations*



The **\_AME series** is a product range based on a reliable patented technology providing nanometer resolution deformation.

These actuators were designed to address the new needs in high power active optics (e.g. Wavefront correction on High power lasers, KB mirror benders, among many others).

It can generate a stable and accurate driven force, and doesn't need a continuous power supply to maintain its force.

Their very small diameter permits to concentrate many actuators under a single substrate.

The floating head technology allows angular and radial misalignments without any parasitic friction.

The motor type and mechanical interfaces can be easily changed to fit customer's requirements.

### **Technical Specifications:**

Motor	Hybrid Stepper, 0.3A
Pressure compliance	Atmospheric ( <b>ATM</b> ), Low Vacuum ( <b>LV</b> ), High Vacuum ( <b>HV</b> )
Sensor	Open loop
Force range	-17N to 17N
Resolution	2mNm / full step
Maximum Speed	4 N/s
Unidirectional Repeatability	< 10 mN RMS
Open loop linearity	1%
Hysteresis	1%
Overall Diameter	14 mm
Controller	On request



DATASHEET  
ISP 11A600 FP1001 B  
05/12/2012

## MICRO-FORCE ELECTRICAL ACTUATOR $\mu$ AME 17

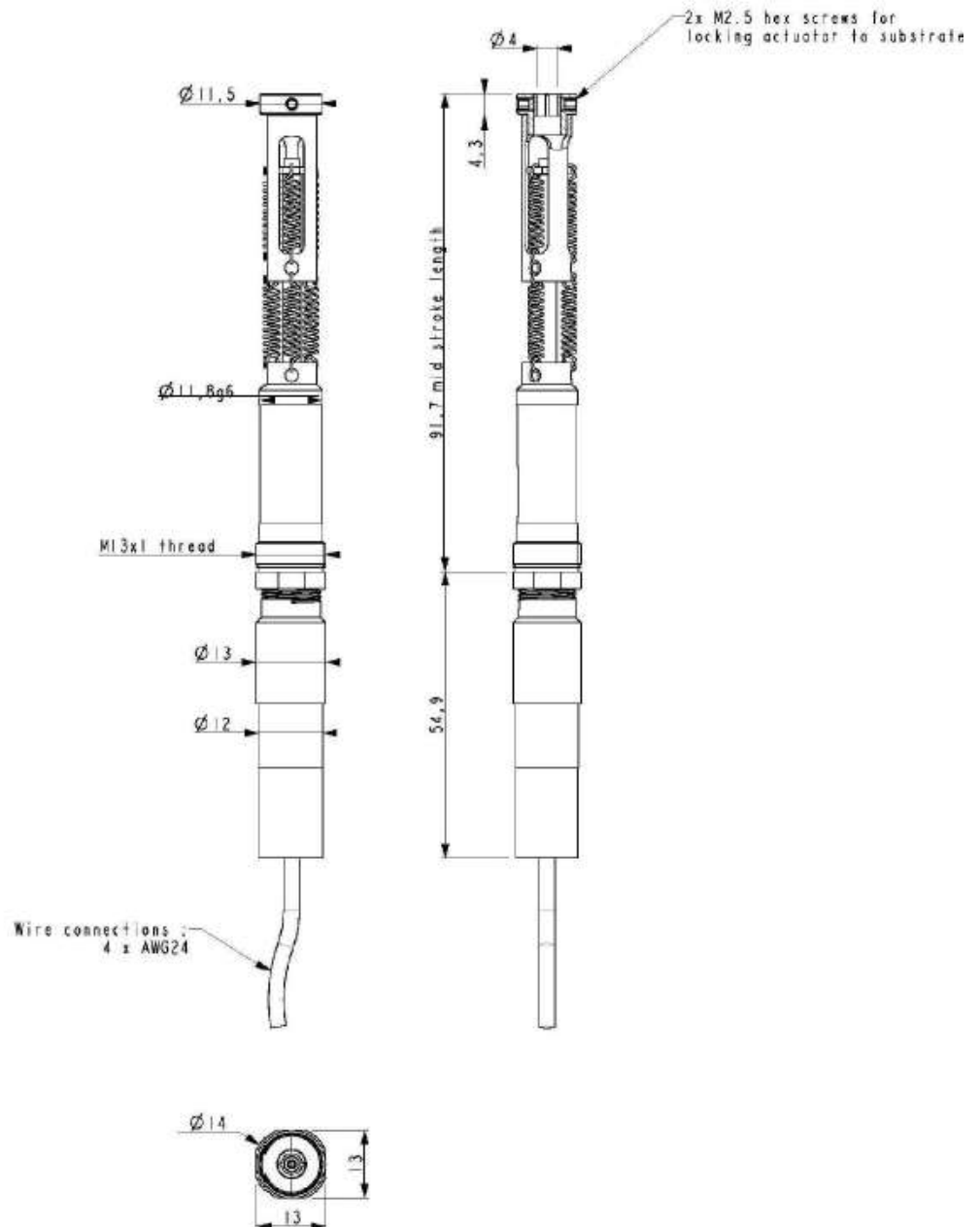
ISP SYSTEM® patented

update : 2014/06/2

page 2

### Dimensions (mm):

Actuator delivered  
with wire connections



Nota: Technical data of this datasheet may be subject to modifications, depending on product updates

ISP SYSTEM • SA au capital 1 000 000 € • ZI de la Herray - B.P. 10047 • 65501 Vic-en-Bigorre • FRANCE  
Tél : 05 62 33 44 44 • Fax : 05 62 33 44 45 • e-mail : [contact@isp-system.fr](mailto:contact@isp-system.fr) • <http://www.isp-system.fr>  
RCS Tarbes B 410 675 078 • SIRET 410 675 078 00027 • APE 7112B

Ce document est la propriété d'ISP SYSTEM, il ne peut être utilisé, reproduit ou communiqué sans son accord préalable écrit.  
Les informations mentionnées dans la présente fiche sont susceptibles d'évoluer, merci de vous renseigner auprès d'ISP System.