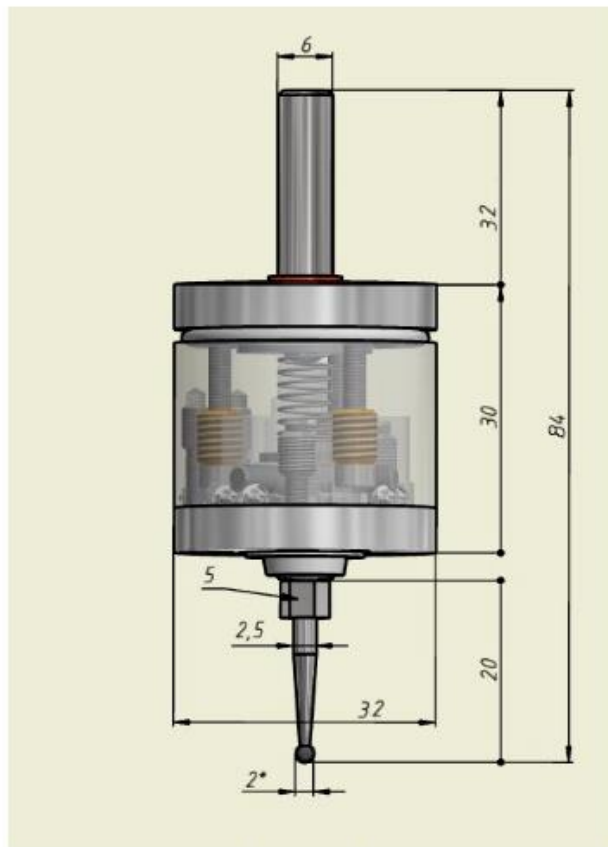


## Specifications.

Unidirectional repeatability	< 0.003 mm
Search directions	$\pm X, \pm Y, -Z$
Permitted deviation stylus in XYZ directions	$\pm 4\text{mm}$
Contact force in XY	min 0.5N max 0.8N
Contact force in Z	2N
Power supply	+5v...+24v
Current consumption	<4mA



\* All sizes are for reference. The diameter of the ball (tip of the stylus) is approximate, in fact it can differ from the specified within  $\pm 0.02$  mm, spherical irregularity <0.003 mm.

## Adjustment.

It is necessary to adjust the probe before starting the measurement. The probe is installed in the spindle, a check indicator is placed near to it (Fig. 1)

The indicator should be sensitive to a weak effect of 0.3-0.5N (for example, most lever indicators have this property).

The axis of the spindle is rotated by hand and the amplitude of the deflection of the stylus ball from the axis of rotation is controlled by the indicator.

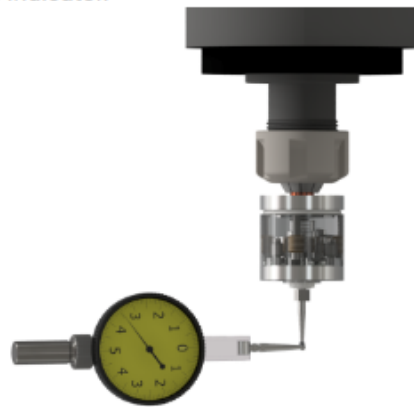


Fig.1

The deviation is eliminated by turning the adjusting screws M2.5 (the screws are recessed into the holes indicated by the green arrows in Fig. 2) with a 2mm hex key from the kit. When adjusting, both tightening and loosening of the screws are used.

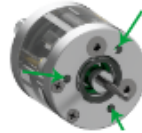


Fig.2

It is recommended to hold for a short lever of the key, so as not to develop excessive force (Fig. 3). It will be necessary to perform several cycles of spindle axis rotation–control– adjustment in order to achieve a minimum deviation acceptable for a particular measurement.



Fig.3

## Connection.

Starting from v.7.1, the sensors are equipped with NPN and PNP outputs, polarity reversal protection, protection against short circuits of the output to power and ground.

Both NPN and PNP outputs are built into the device and routed to separate pins.

Below is a diagram of the connection to the machine.

