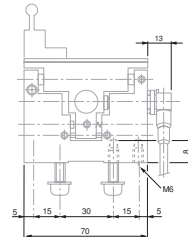


FMS 100



FMS 102

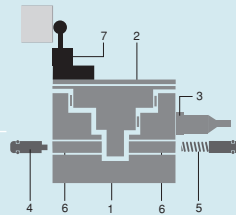
**Configuration and Application of TESA FMS Probes**

Shown below are the different possibilities for the activation and retraction of the probe insert during measurement cycles.

*APPLICATION EXAMPLE A*

- Activation of the probe insert in the direction of the part to be inspected using the measuring force produced by the spring set.
- Without retraction of the insert.

**Result A**  
During the placing of a new part to be measured, the measuring insert remains in its contact position thanks to the measuring force produced by the spring set.

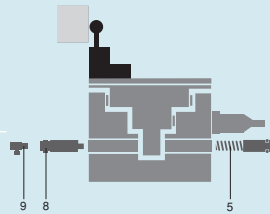


- 1 Static probe body
- 2 Mobile probe body
- 3 Measuring element with fine adjust
- 4 Adjustable stop
- 5 Spring set for producing measuring force
- 6 M6 mounting thread
- 7 Holder

*APPLICATION EXAMPLE B*

- Activation of the probe insert in the direction of the part to be measured using the measuring force of the spring set.
- Retraction of the insert by pneumatic pressure through a pneumatic connection.

**Result B**  
During the placing of a new part to be measured, the measuring insert is retracted through activation of pressure via the pneumatic actuator.



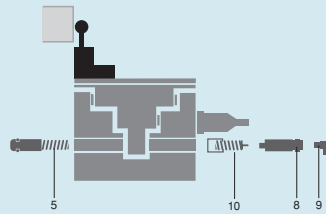
- 5 Spring set for producing measuring force
- 8 Pneumatic actuator (Part No. 03260440)
- 9 Connector (Part No. 024388)

*APPLICATION EXAMPLE C*

- Activation of the probe insert in the direction of the part to be inspected by pneumatic pressure and the measuring force of the spring set.
- Retraction of the insert by disabling the pneumatic pressure.

**ATTENTION !**  
The force of the spring set (5) must be equal to that of the auxiliary spring element (10).

**Result C**  
During the placing of a new part to be measured, the measuring insert is automatically retracted due to the disabling of the pneumatic pressure, which guarantees about security during the measuring cycle.



- 5 Spring set for producing measuring force
- 8 Pneumatic actuator (Part No. 03260440)
- 9 Connector (Part No. 024388)
- 10 Auxiliary spring element (Part No. 03260445)

This configuration is typically preferred when there is lack of space for connecting a pneumatic actuator (left side of example B).

