

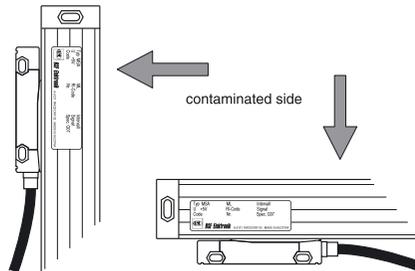
Mounting Instruction MSA 672

Important!

- The measuring length of the Linear Encoder must be longer than the travel length of the machine!
- Remove transport brackets prior to operation
- Never tilt the encoder head with respect to the extrusion
- Do not connect or disconnect the encoder head with the Digital Readout or Control if the power is on.
- Do not touch the connector pins! (ESD-Instruction)
- Overall cable length should not exceed 30 m!

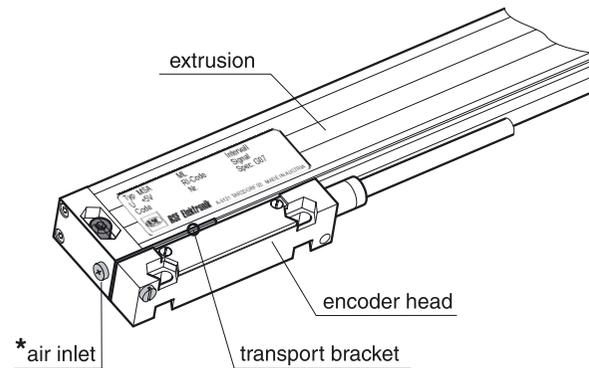
Mounting notes

- The best location for mounting a Linear Encoder is to mount it as near to the centerline of the slide, or as close to the guideways of the machine, as possible.
- To mount the Linear Encoder, two mounting surfaces are required; one for the extrusion and one for the encoder head. If the unit cannot be mounted directly onto the slide, then mounting brackets would be required.
- Mount the Linear Encoder so that the encoder head never runs into the end of the extrusion, for overtraveling the measuring length will destroy the unit!
- If possible, the extrusion should be mounted on the moving part of the machine guideway and the encoder head fixed, so that the cable is rigidly attached to the machine and continuous cable flexure and the chance of a cable snag are eliminated.
- The Linear Encoder has protective sealing lips to protect against dust and water drops, provided that it is mounted in such a way that the sealing lips of the extrusion are mounted down or away from the contamination side of the machine. If it is not possible to mount the sealing lips away from the machine contamination, then the unit must be protected using an additional cover (sheet metal cover or bellows).



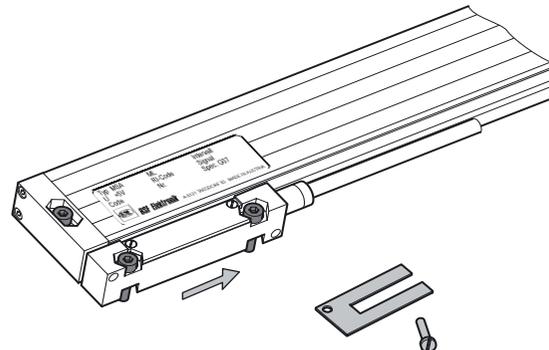
Mounting of the extrusion

- First, mount the extrusion and loosely tighten the mounting screws.
- Adjust the mounting so that the extrusion is parallel to the machine guideway, and tighten the mounting screws according to the specifications.



Mounting of the encoder head

- Move the encoder head carefully by hand to the mounting surface.
- Initially, lightly tighten the screws.
- Adjust the encoder head gap to the mounting gap and tolerance (1 mm gap), and tighten the mounting screws according to the specifications.



Inspection of the mounting

- Move the slide over the full range of motion to make sure that full machine travel range can be obtained without the encoder contacting the end of the scale extrusion. Otherwise, the Linear Encoder will be damaged!

Tying down the cables

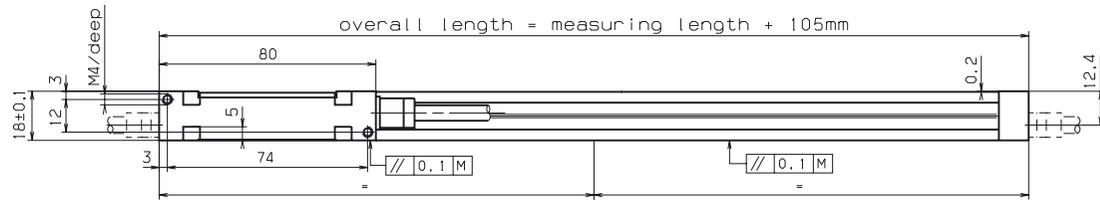
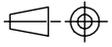
- On machines with cutting fluids and water drops, in which the cable is sloped downward, the fluids will run down the cable. Even though the encoder head is sealed where the cable enters the encoder head, it is better to have a downward bend of the cable, just prior to encoder head entry, so that the fluids have no chance of running into the encoder head.
- Lay the cable so that the minimal bending radius is not exceeded. When you have mounted the encoder head at the moving part of your machine, the cable should be laying in a drag-chain.
- Overall cable length should not exceed 30 m!

* air inlet

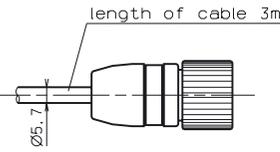
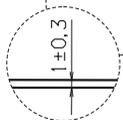
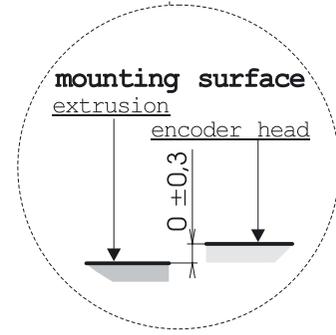
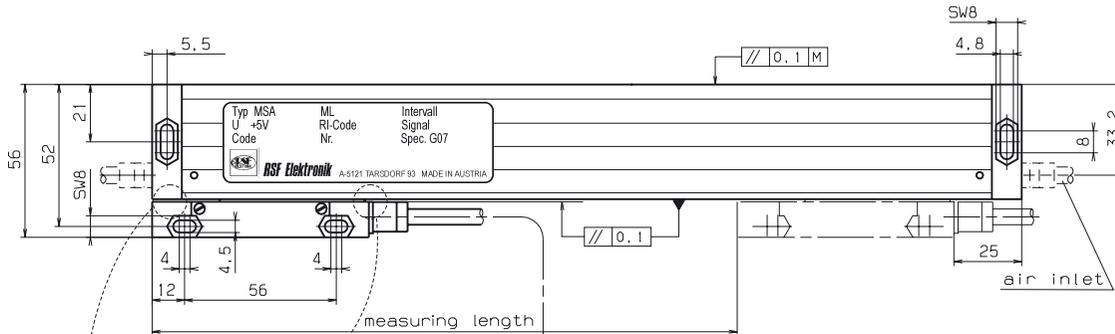
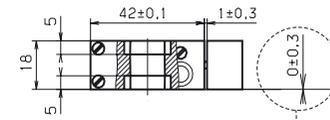
Air Pressure Unit DA300 on request.
Filtered air can be supplied by the RSF Air Pressure Unit ADA300.
Pressure is adjustable between 0,3 and 0,6 bar at a flow rate of about 4l/min.

For technical data, please look at our catalogue
"Incremental Linear Encoders - Enclosed Models"

Dimensions - Mounting tolerances - Mounting possibilities:



for measuring lengths over 620mm
scale should be affixed with
epoxy resin adhesive (e.g. UHU-PLUS).
cementing gap max. 0.2mm.



M = machine guideway

