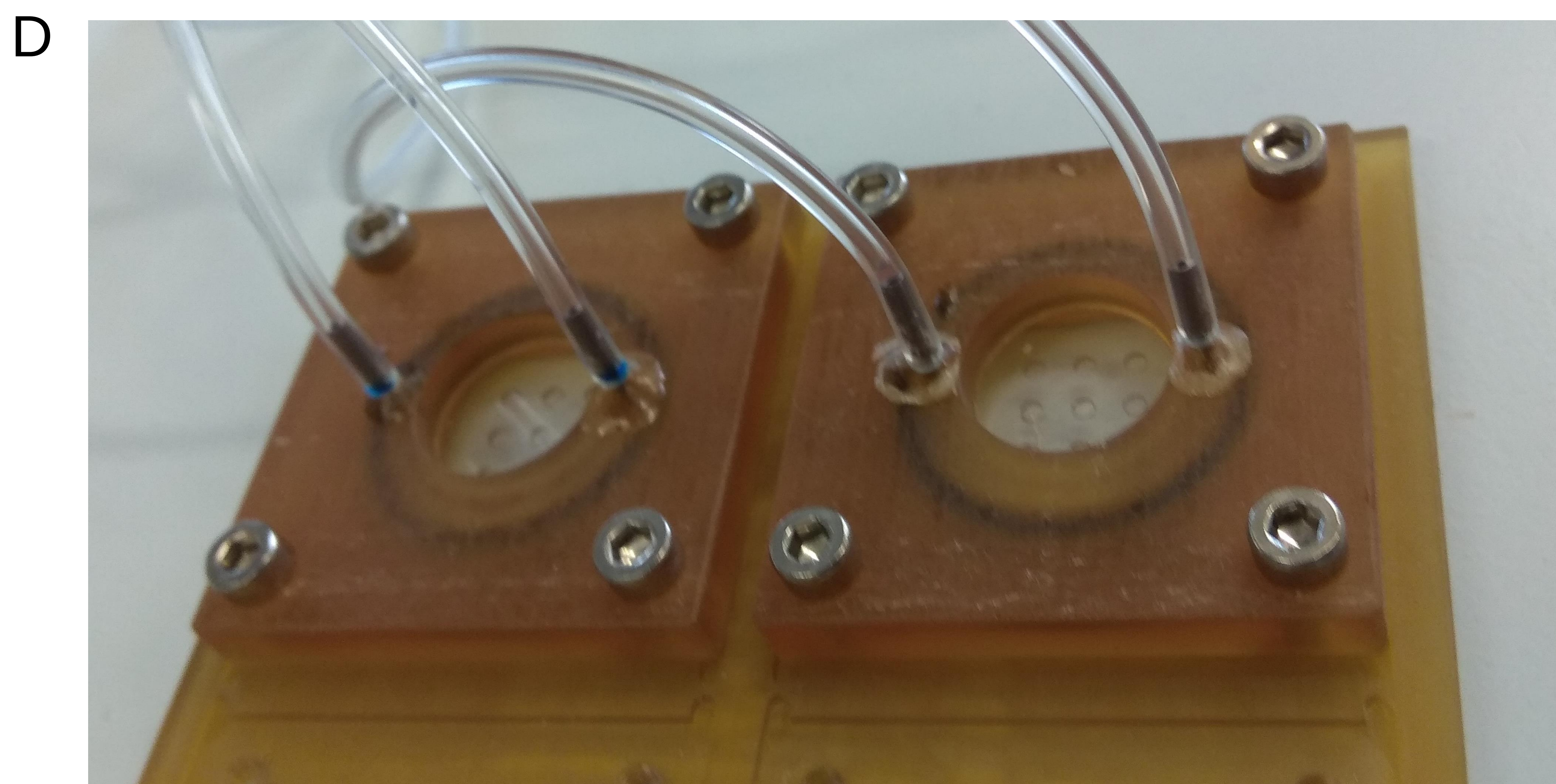
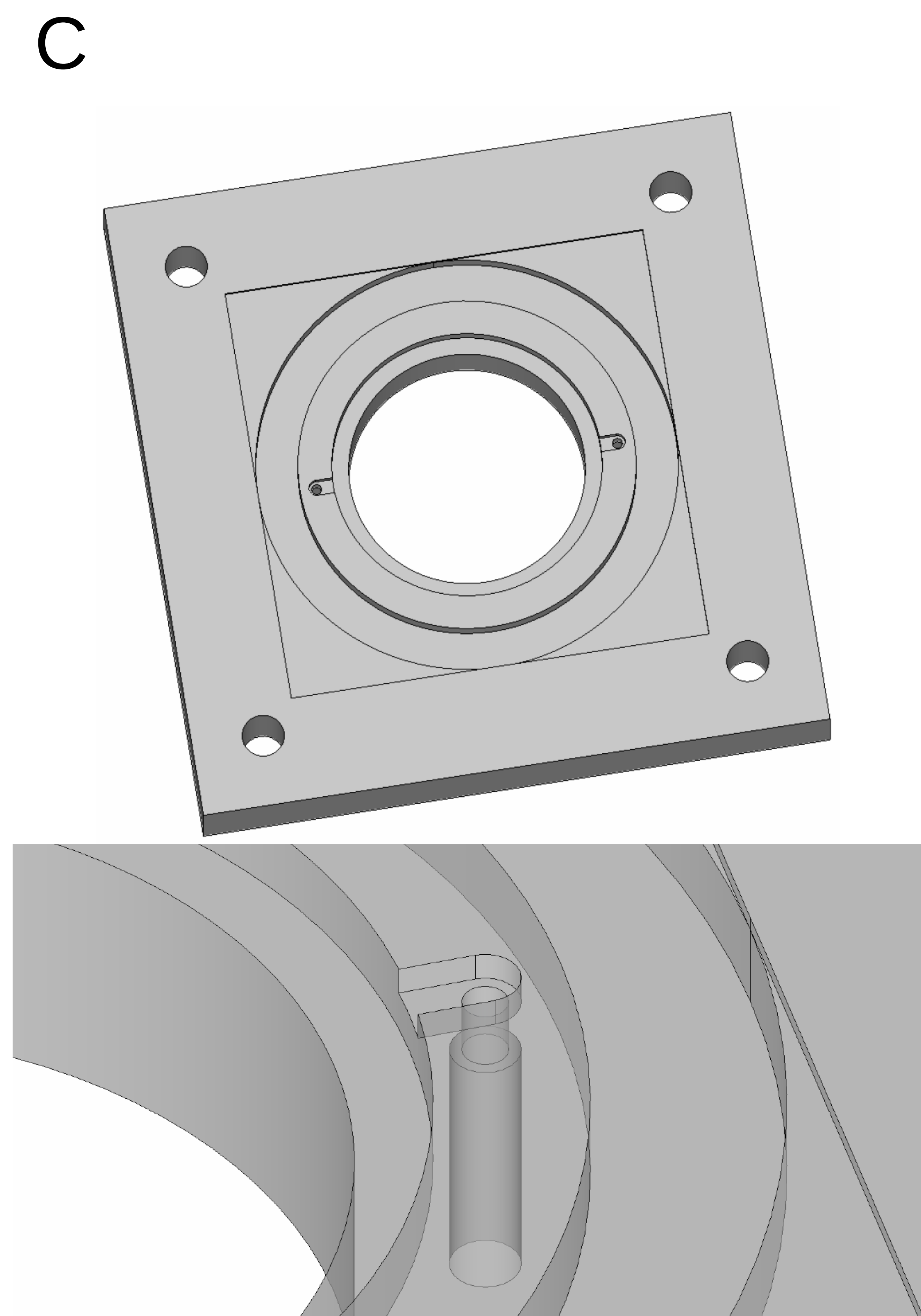
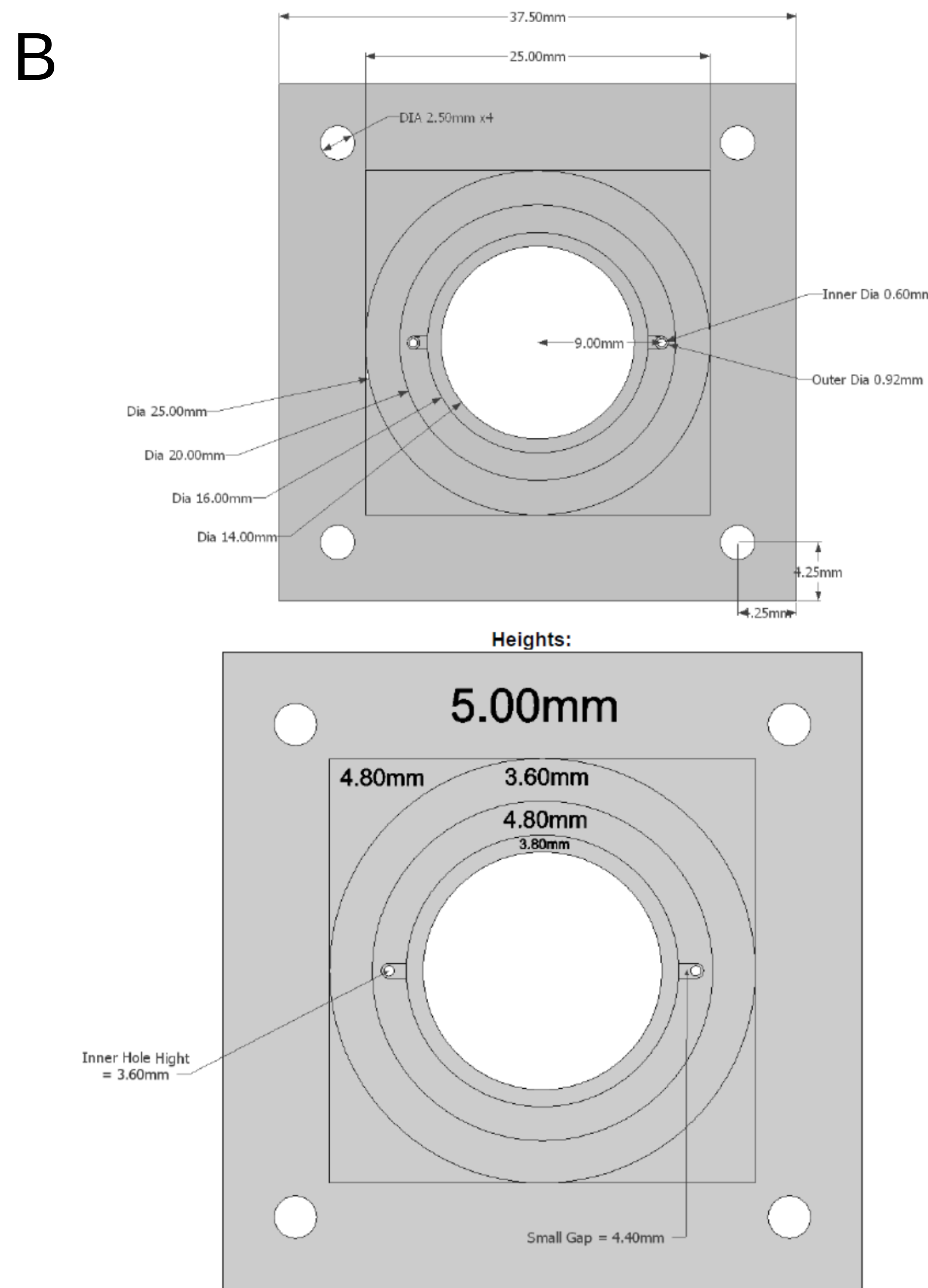
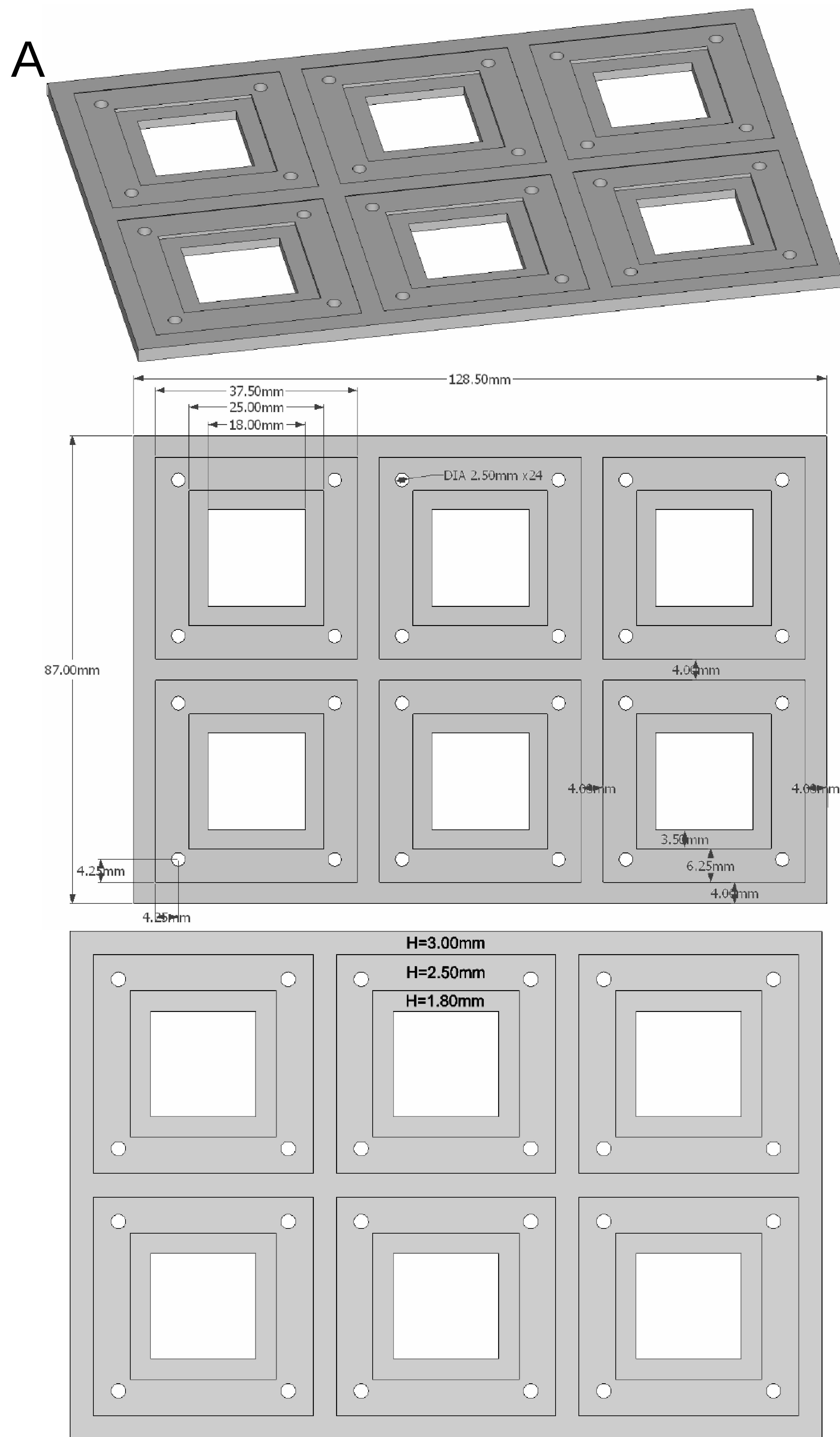
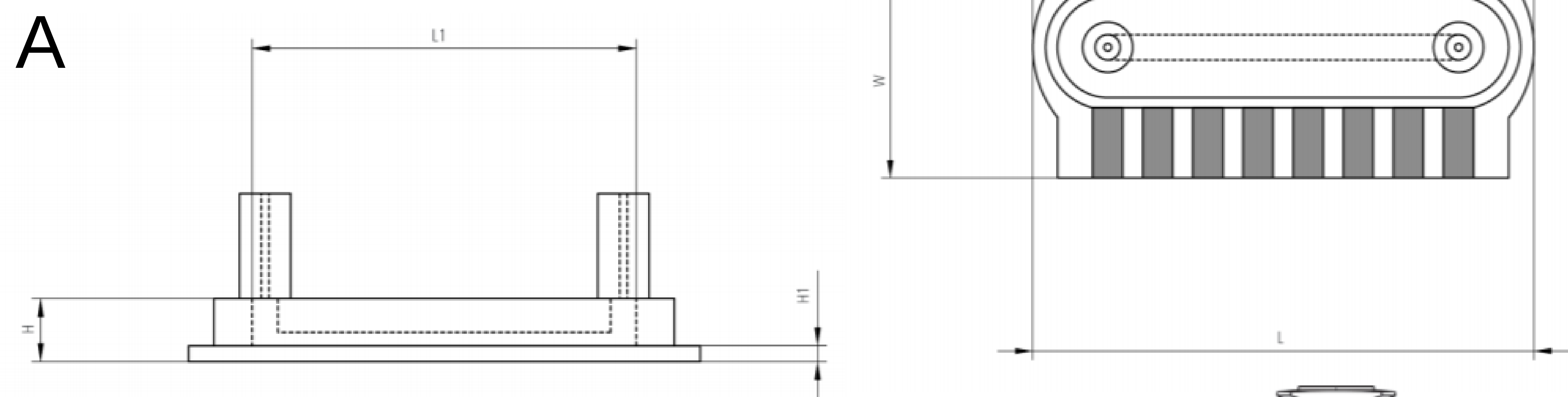
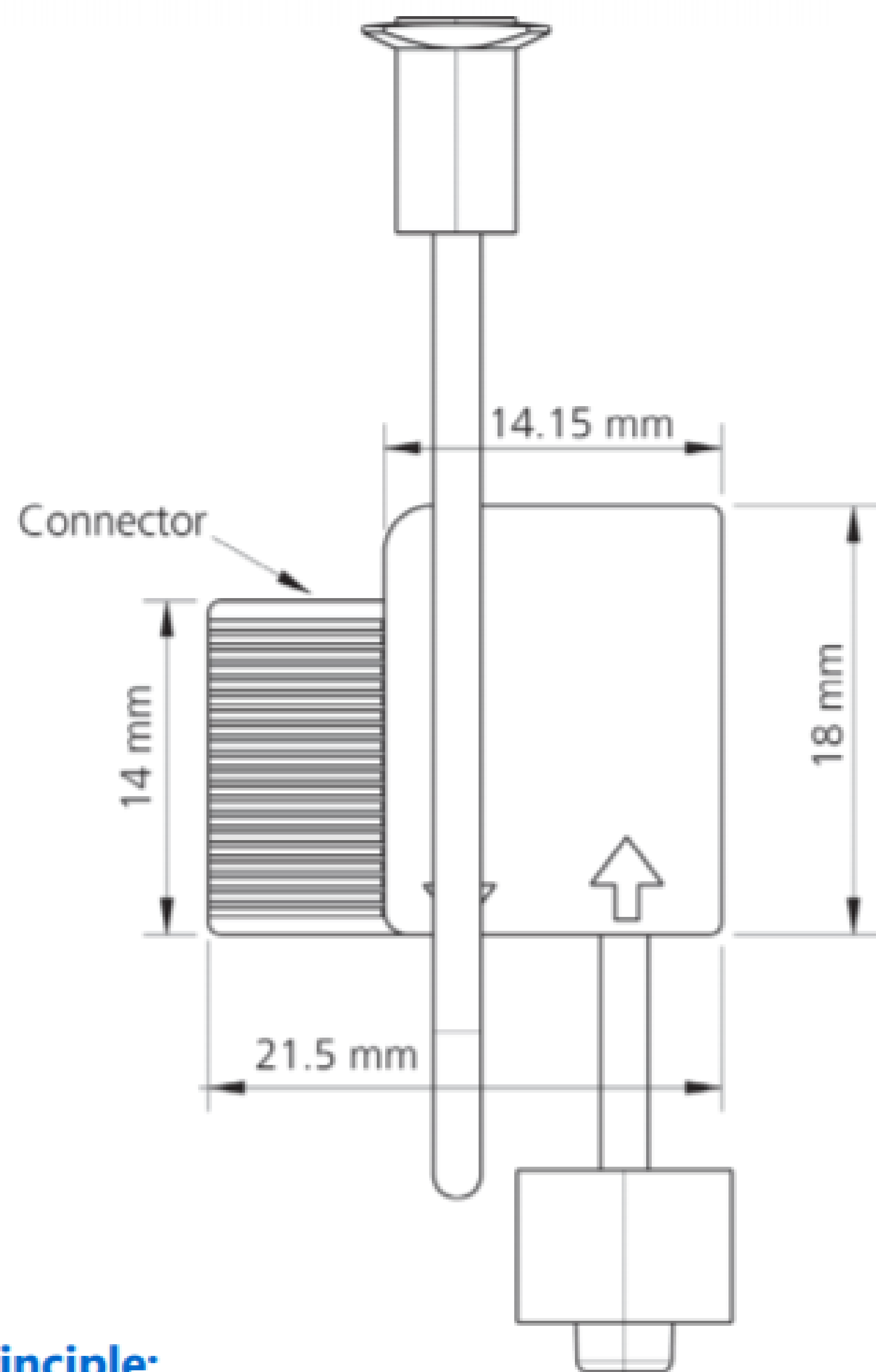
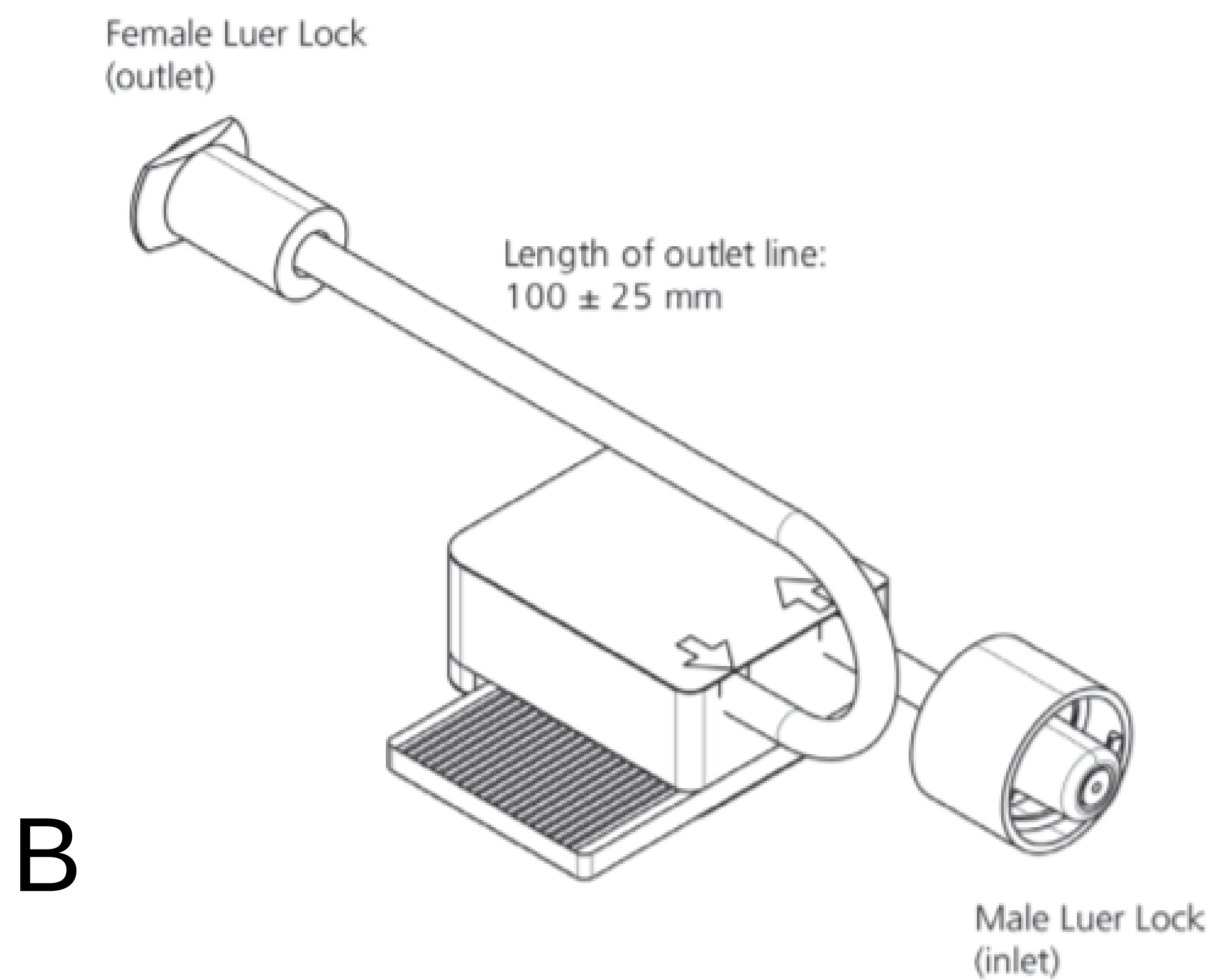






1) For actual size, see dimensions



B

Construction:

- 2x Glucose, 2x Lactate and 2x Blank electrodes.
- Interfaces to 1mm FFC ZIF connector.
- Currently 0.15mm or 0,5mm inner diameter tube termination
- Luer fittings

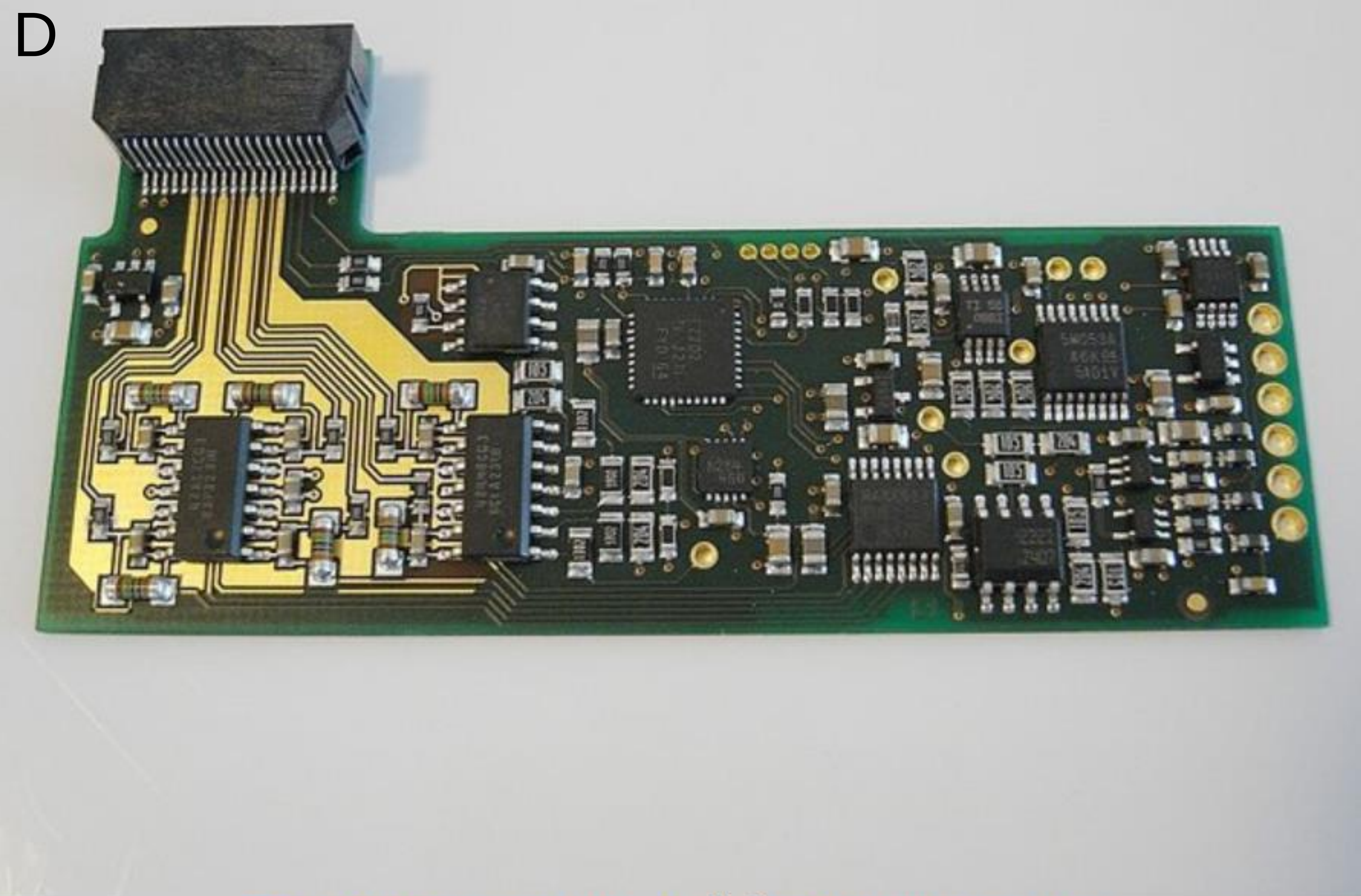
Operating principle:

- Oxidase enzymes and hydrogen peroxide oxidation
- @ Platinum @ +450 mV vs internal Ag/AgCl

Sensitivity @37°C:

- Glucose: 0.8nA/mM (t90%~25s)
- L-lactate: 2.0nA/mM (t90%~15s)

Dimensions - chip (L x W x H in mm):	10 x 4 x 0.4 (1.23 mm with flow cell)
Dimensions - flow cell ($V_{INTERNAL}^{3)}$):	0.3 μ L to 1 μ L ~ 8 mm x 600 μ m (0.15, 0.5 mm tubes)
Fluid connection ($\varnothing_{INNER}^{3)}$:	0.5 mm (0.15 mm available upon request)
Working electrode:	Platinum covered with enzyme membrane
Blank electrode:	For background compensation
Reference electrode:	Silver / silver chloride
Counter electrode:	Platinum
Measurable analytes ³⁾ :	Glucose, Lactate
Operating measurement range at +25 °C (for extended measurement ranges please contact IST AG) ⁵⁾ :	Glucose: 0.05 mM to 25 mM / 0.01 to 4.5 g/l Lactate: 0.02 mM to 15 mM / 0.002 to 1.5 g/l
Sterilization:	Beta or gamma sterilization is possible (25 kGy typical) Sensitivity increases upon radiation; lactate sensors life time is reduced Initial bioburden < 1 cfu per sensor
Time to first measurement after storage at +37 °C:	~ 15 min
Time response ($t_{90} \%$) at +37 °C ⁵⁾ :	< 25 s



TTL UART connective „Six“ for OEM integration

- › **Connectivity:** to microProcessor
- › **Digital interface:** TTL UART
- › **Software:** Protocol syntax supplied
- › **Dimensions:** 75 x 38 x 7 (L x W x H in mm)
- › **Weight:** 8 gram
- › **Power supply:** +3,3... 5 V / 5 mA

