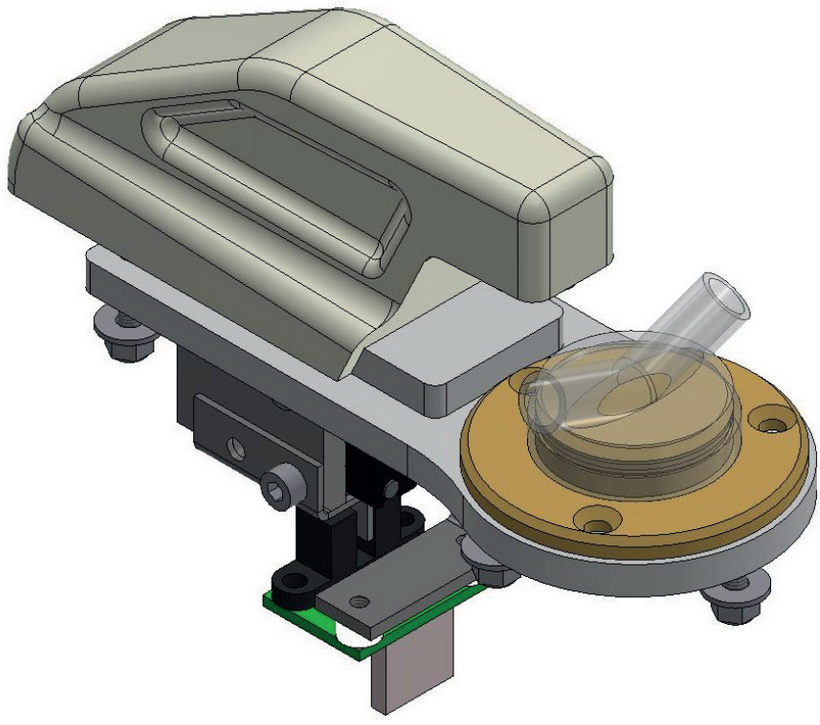
DHS

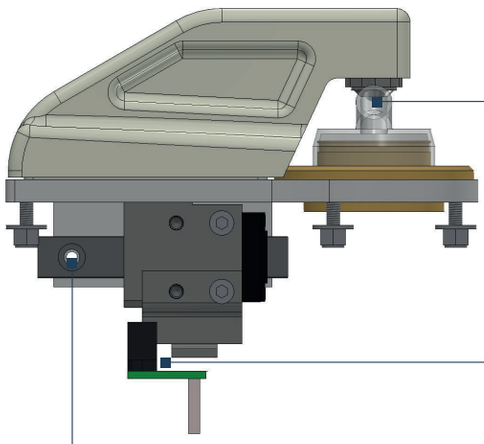
DOME HOLDING SYSTEM

Teoresi MedTech Dome Holding System is intended to be integrated into extracorporeal circulation devices where the pressure within the tubing set is measured in a non invasive way, through the coupling between a surface pressure sensor and a disposable membrane element called “dome”.
The Dome Holding System is used to keep the dome in a fixed position on the sensor, avoiding rotation or lateral displacement caused by any operator action on the tubing set. The dome locking/unlocking system consists of a sliding mechanism, and the opening/closing position is continuously monitored by a slotted optical switch.



Key features - 1

Dome Holding System CLOSED Position



Sphere Pressor embedded into the Plastic Handle

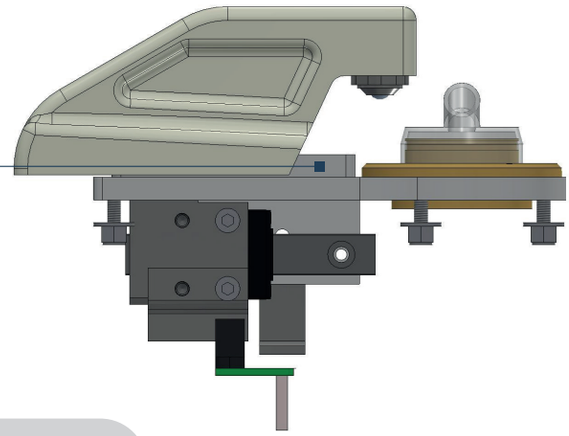
Slotted Optical Switch detecting OPEN/CLOSE positions

Recirculating Ball Bearings Guide ensuring:
- High Stiffness
- Low Friction
- Positioning Movements
- Repeatability
- Easy installation

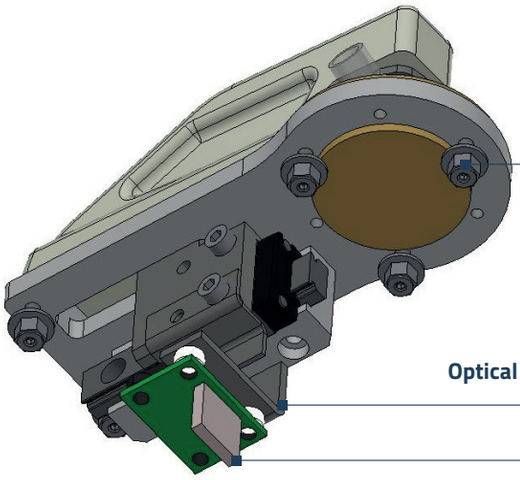
Key features - 2

Dome Holding System OPEN Position

In the **OPEN Position** Internal parts are not visible



Mounting system and electrical interface



N° 5 Grub Screw Fixing the System to the Base

Optical Forked Sensor Support

Connector: **Manufacturer JST - type B4B-XH-A**

Direct Interface to Slotted Optical Switch:
- Manufacturer: OPTEK TECHNOLOGY
- Type: OPB360T51

Pinout:
- Pin1: phototransistor collector
- Pin2: emitter anode
- Pin3: emitter cathode
- Pin4: photransistor emitter

The sensor interface may be customized