Alpha-Mini
Uniform Body Identifiers(UBI)

Body parts

```
body
| - head
| - arms
| | -  right
| | | - upper
| | | - lower
| | - left
| | | - upper
| | | - lower
| - torso
| - legs
| | - right
| | | - upper
| | | - lower
| | | - foot
| | - left
| | | - upper
| | | - lower
| | | - foot
```

Joints and range of motion

```
body
| - head
| | - yaw           max: 0.8726646259971648, min: -0.8726646259971648
| | - roll          max: 0.17453292519943295, min: -0.17453292519943295
| | - pitch         max: 0.17453292519943295, min: -0.17453292519943295
| - arms
| | -  right
| | | - upper.pitch max: 1.5943951023931953, min: -2.5943951023931953
| | | - lower.roll  max: 6.46259971647245e-05, min: -1.745264625997165
| | - left
| | | - upper.pitch max: 1.5943951023931953, min: -2.5943951023931953
| | | - lower.roll  max: 6.46259971647245e-05, min: -1.745264625997165
| - torso
| | - yaw           max: 0.8726646259971648, min: -0.8726646259971648
| - legs
| | - right
| | | - upper.pitch max: 1.7453292519943295, min: -1.7453292519943295
| | | - lower.pitch max: 1.7453292519943295, min: -1.7453292519943295
| | | - foot.roll   max: 0.24105206811824215, min: -0.8410520681182421
| | - left
| | | - upper.pitch max: 1.7453292519943295, min: -1.7453292519943295
| | | - lower.pitch max: 1.7453292519943295, min: -1.7453292519943295
| | | - foot.roll   max: 0.24105206811824215, min: -0.8410520681182421
```

`body.arms.lower.roll` **min value** COLLIDES WITH THE BODY OR HEAD

Sensor description

Sight:
```
body
| - head
| | - eyes
| | | -res: 320*240
| | | -type: color
```

Hearing:
```
body
| - head
| | - sample_rate: 16000
| | - bits_per_sample: 16
```

Touch:
```
body
| - head
| | - rear.type: discrete
| | - front.type: discrete
| | - middle.type: discrete
```

Propio -> Joints and ranges of motion