C:/nqCbtp/JavaApplication8/src/Terminal.java

```
1 /**************
    VerticalPositionSensor
 3 ********************************
 4 public class VerticalPositionSensor extends Actor implements Runnable
  5
    protected float fy1=0.2;
    protected float fy2=0.8;
    protected Terminal < Boolean > contact = new Terminal < Boolean > (false);
   private String targetName;
10
11
    protected int y1, y2;
12
13
    public VerticalPositionSensor(JSONObject src) {
      super(src);
14
      if (!src.isNull("target")) {
1.5
        targetName=src.getString("target");
16
      } else
17
18
        targetName="";
19
20
      if (!src.isNull("y1"))
21
        fy1=src.getFloat("y1");
22
      if (!src.isNull("y2"))
23
        fy2=src.getFloat("y2");
24
```

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```
25
26
   void run() {
27
       Actor target=null;
28
       if (!targetName.equals("")){
29
         target=actorsContainer.get(actorsIndex.get(targetName));
30
         y1=Math.round((float)target.w*fy1);
31
         y2=Math.round((float)target.h*fy2);
32
33
       for (;; ) {
34
         contact.write((target!=null) ? target.isY(y,y1,y2) : false);
35
         try {
36
           java.lang.Thread.sleep(samplingTime);
37
38
         catch (Exception e) {
39
           println(e);
40
41
42
43
       public Terminal getTerminal(String terminalName) {
44
       if (terminalName.equals("contact"))
45
         return contact;
46
       else
47
         return super.getTerminal(terminalName);
48
```

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```
49
50 void draw() {
51    index=contact.read() ? 1 : 0;
52    super.draw();
53  }
54 }
```

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