

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

```
1  /*****
2  *   HorizontalPositionSensor
3  *****/
4  public class HorizontalPositionSensor extends Actor implements Runnable {
5      protected float fx1=0.2;
6      protected float fx2=0.8;
7      protected Terminal<Boolean> contact=new Terminal<Boolean>(false);
8      private String targetName;
9      protected int x1,x2;
10
11     public HorizontalPositionSensor(JSONObject src) {
12         super(src);
13         if (!src.isNull("target")) {
14             targetName=src.getString("target");
15         } else
16             targetName="";
17         if (!src.isNull("x1"))
18             fx1=src.getFloat("x1");
19         if (!src.isNull("x2"))
20             fx2=src.getFloat("x2");
21     }
22
23
24
```

```
25 void run() {
26     Actor target=null;
27     if (!targetName.equals("")) {
28         target=actorsContainer.get(actorsIndex.get(targetName));
29         x1=Math.round((float)target.w*fx1);
30         x2=Math.round((float)target.w*fx2);
31     }
32     for (;;) {
33         contact.write((target!=null) ? target.isX(x,x1,x2) : false);
34         try {
35             java.lang.Thread.sleep(samplingTime);
36         }
37         catch (Exception e) {
38             println(e);
39         }
40     }
41 }
42 public Terminal getTerminal(String terminalName) {
43     if (terminalName.equals("contact"))
44         return contact;
45     else
46         return super.getTerminal(terminalName);
47 }
48
```

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