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1  /*****
C:/nqCbt/JavaApplication8/src/Terminal.java
2  *   LevelPositionSensor
3  *****/
4  public class   LevelPositionSensor extends Actor implements Runnable {

5      protected Terminal<Boolean> contact=new Terminal<Boolean>(false);
6      private String targetName;
7      private String targetSignalName="level";
8      private int   tripLevel=10;
9      private int   span=1;
10
11     public LevelPositionSensor(JSONObject src) {
12         super(src);
13         if (!src.isNull("target")) {
14             targetName=src.getString("target");
15         } else
16             targetName="";
17         if (!src.isNull("targetSignalName"))
18             targetSignalName=src.getString("targetSignalName");
19         if (!src.isNull("tripLevel"))
20             tripLevel=src.getInt("tripLevel");
21         if (!src.isNull("span"))
22             span=src.getInt("span");
23     }
24

```

```
25 void run() {
26     Terminal<Integer> level=null;
27     if (!targetName.equals("")) {
28
29 level=actorsContainer.get(actorsIndex.get(targetName)).getTerminal(targetSignalName);
29     }
30     for (;;) {
31         if (!contact.read()) {
32             if ((level!=null) && (level.read()>(tripLevel+span)) )
33                 contact.write(true);
34             }
35         else
36             if ((level!=null) && (level.read()<(tripLevel-span)) )
37                 contact.write( false);
38         index=contact.read() ? 1 : 0;
39         try {
40             java.lang.Thread.sleep(samplingTime);
41         }
42         catch (Exception e) {
43             println(e);
44         }
45     }
46 }
47
```

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

```
48 public Terminal getTerminal(String terminalName) {  
49     if (terminalName.equals("contact"))  
50         return contact;  
51     else  
52         return super.getTerminal(terminalName);  
53 }  
54 }
```