```
MODULE main
1
2
   VAR
     sensor1: {objectDetected, noObject, fault};
3
     sensor2: {objectDetected, noObject, fault};
4
5
    sensor3: {objectDetected, noObject, fault};
     sensor4: {objectDetected, noObject, fault};
6
7
     sensor5: {objectDetected, noObject, fault};
8
     userRequest: {start, stop};
9
      conveyorState: {running, stopped};
10
11 ASSIGN
12
     init(conveyorState) := stopped;
13
      next(conveyorState) := case
        (sensor1 = objectDetected | sensor2 = objectDetected | sensor3 =
14
    objectDetected | sensor4 = objectDetected | sensor5 = objectDetected) &
    userRequest != stop : running;
15
        userRequest = stop : stopped;
        (sensor1 = noObject & sensor2 = noObject & sensor3 = noObject & sensor4
16
    = noObject & sensor5 = noObject) : stopped;
17
       TRUE : conveyorState;
18
      esac;
```