```
1
       (*The main code inserted by the user and executed associated with the
       MainTask must be inserted into this POU.*)
       PROGRAM UserPrg
 3
       VAR
 4
          start : BOOL ;
          start light: BOOL;
 6
 7
          stop: BOOL;
 8
           stop_light : BOOL ;
 9
10
          reset : BOOL ;
           alarme: BOOL;
11
12
13
          emergency: BOOL;
14
          red_light : BOOL ;
15
16
          esteiral_cnc1 : BOOL ;
17
           esteira2 cnc1 : BOOL ;
           esteira3_cnc1 : BOOL;
18
19
20
          esteiral cnc2 : BOOL;
21
          esteira2 cnc2 : BOOL ;
22
           esteira3_cnc2 : BOOL;
23
24
           esteira saida : BOOL;
25
26
           sensor1 : BOOL ;
27
          sensor2 : BOOL ;
28
          sensor3: BOOL;
29
          sensor4 : BOOL ;
30
31
          operando_cnc1 : BOOL ;
32
           operando_cnc2 : BOOL ;
          aux_sensor1 : BOOL;
33
34
          aux sensor3 : BOOL ;
35
          arms_ready: BOOL;
36
37
          contagem_cnc1 : INT ;
38
           contagem_cnc2 : INT ;
39
           R_TRIG_0 : R_TRIG ;
          R_TRIG_1: R_TRIG;
40
41
          F TRIG 0 : F TRIG;
42
43
          F_TRIG_1 : F_TRIG ;
44
          TP_0 : TP;
45
           TP_1: TP;
46
47
           CTU 0 : CTU;
48
           CTU_1 : CTU;
49
       END VAR
```

```
1
        start
                                                                     start_light
                                                                        ___(s)
                                                                      stop_light
                                                                       ___[R]
                                                                      red light
                                                                       ----(R)
                                                                       sensor1
                                                                       ___(s)
                                                                       sensor2
                                                                        ___(s)
                                                                       sensor3
                                                                        __(s)
                                                                       sensor4
                                                                        —(s)
                                                                     aux_sensor1
                                                                       ___(R)
                                                                     aux_sensor3
                                                                        ---(R)
2
                                                                    esteira2_cnc1
         stop
                                                                        —(R)
                                                                    esteira3_cnc1
                                                                      ——(R)
      emergency
                                                                    esteira2_cnc2
                                                                     ----(R)
                                                                    esteira3_cnc2
                                                                     ____(R)
                                                                    esteira_saida
                                                                      ----(R)
                                                                     start_light
                                                                      ----(R)
                                                                       alarme
                                                                       ---(R)
                                                                      stop_light
      emergency
                                                                        __(R)
                                                                      red_light
                                                                        —(s)
                                                                        alarme
                                                                         -(R)
4
      start_light
                                                                      arms_ready
```



