

Escena12_ST

```
1|      10|      20|      30|      40|      50|      60|      70|      80|      90|     100|     110|
1  R_TRIG_0 (CLK := start);
2  if em_stop and stop and not reseteo and R_TRIG_0.Q then
3      start_light:=1;
4      stop_light:=0;
5      reset_light:=0;
6      %M50:=0;
7  end_if;
8  if not stop and not auto then
9      entry_conveyor:=0;
10     exit_conveyor:=0;
11     start_light:=0;
12     stop_light:=1;
13 end_if;
14 (*Modo manual-----*)
15 if start_light and manual and em_stop then
16 R_TRIG_1 (CLK := start);
17     if R_TRIG_1.Q then
18         entry_conveyor:=1;
19         aux_cont:=0;
20     end_if;
21 R_TRIG_2 (CLK := at_entry);
22     if R_TRIG_2.Q then
23         entry_conveyor:=0;
24     end_if;
25 F_TRIG_0 (CLK := movingx);
26     if (at_entry and not entry_conveyor and not movx) or ( grab and item_detected and movx and F_TRIG_0.Q
26>>) then
27         movz:=1;
28     end_if;
29     if movingz and item_detected and not movx then
30         grab:=1;
31     end_if;
32     if grab and item_detected and not movx then
33         movz:=0;
34     end_if;
35     if grab and item_detected and not movingz and not movz then
36         movx:=1;
37     end_if;
38 F_TRIG_1 (CLK := movingz);
39     if movz and F_TRIG_1.Q and movx and at_exit then
40         grab:=0;
41         if not grab then
42             movz:=0;
43         end_if;
44     end_if;
45     if movx and not grab and not item_detected and not movz then
46         movx:=0;
47         exit_conveyor:=1;
48     end_if;
49     TON_2 (IN := exit_conveyor,
50     PT := t#5.5s);
51     if TON_2.Q then
52         exit_conveyor:=0;
53         start_light:=0;
54         aux_cont:=1;
55     end_if;
56 end_if;
57 (*Reseteo-----*)
58 R_TRIG_3 (CLK := reseteo);
59 if r_trig_3.q then
60     %M51:=0;
61 end_if;
62 if (R_TRIG_3.Q and not start_light) or not em_stop then
63     reset_light:=1;
64     aux_cont:=1;
65     entry_conveyor:=0;
66     exit_conveyor:=0;
67     movx:=0;
68     movz:=0;
69     grab:=0;
70     start_light:=0;
71 end_if;
72
73 if %M51 and %s6 then
74     reset_light:=1;
75 end_if;
76 if %M51 and not %s6 then
77     reset_light:=0;
78 end_if;
79
80 F_TRIG_2 (CLK := stop);
81 if F_TRIG_2.Q then
82     stop_light:=1;
83     %M50:=1;
84 end_if;
85 F_TRIG_3 (CLK := em_stop);
86 if F_TRIG_3.Q then
87     %M51:=1;
88 end_if;
89 (*Modo automático-----*)
90 if start_light and auto and em_stop then
91 R_TRIG_4 (CLK := start);
92     if R_TRIG_4.Q then
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1|      10|      20|      30|      40|      50|      60|      70|      80|      90|      100|      110|
93          entry_conveyor:=1;
94          aux_cont:=0;
95      end_if;
96
97  R_TRIG_5 (CLK := at_entry);
98      if R_TRIG_5.Q then
99          entry_conveyor:=0;
100      end_if;
101
102  F_TRIG_4 (CLK := movingx);
103      if (at_entry and not entry_conveyor and not movx) or ( grab and item_detected and movx and F_TRIG_4.Q
103>>) then
104          movz:=1;
105      end_if;
106      if movingz and item_detected and not movx then
107          grab:=1;
108      end_if;
109      if grab and item_detected and not movx then
110          movz:=0;
111      end_if;
112      if grab and item_detected and not movingz and not movz then
113          movx:=1;
114      end_if;
115
116  F_TRIG_5 (CLK := movingz);
117      if movz and F_TRIG_5.Q and movx and at_exit then
118          grab:=0;
119          if not grab then
120              movz:=0;
121          end_if;
122      end_if;
123      if movx and not grab and not item_detected and not movz then
124          movx:=0;
125          exit_conveyor:=1;
126      end_if;
127
128  TON_3 (IN := exit_conveyor,
129  PT := t#5.5s);
130      if TON_3.Q then
131          exit_conveyor:=0;
132          entry_conveyor:=1;
133          if cont=2 and %M50 then
134              entry_conveyor:=0;
135              start_light:=0;
136              aux_cont:=1;
137          end_if;
138      end_if;
139
140  end_if;
141  F_TRIG_6 (CLK := at_entry);
142  CTU_0 (CU := F_TRIG_6.Q,
143  R := aux_cont,
144  CV => cont);
145      if cont=3 then
146          aux_cont:=1;
147      end_if;
148      if cont=0 then
149          aux_cont:=0;
150      end_if;

```