

# TECHNICAL DOCUMENTATION

## Example 6.3

Project	Example 6.3
Designer	
Application	example_6_3_simulation.stu
Software Version	ControlExpert V15.0-SP1
Creation Date	6/14/2023 4:46:51 PM
Last Modification Date	6/14/2023 4:46:51 PM
Target PLC	BMX P34 1000 02.00CPU 340-10 Modbus

# MAST

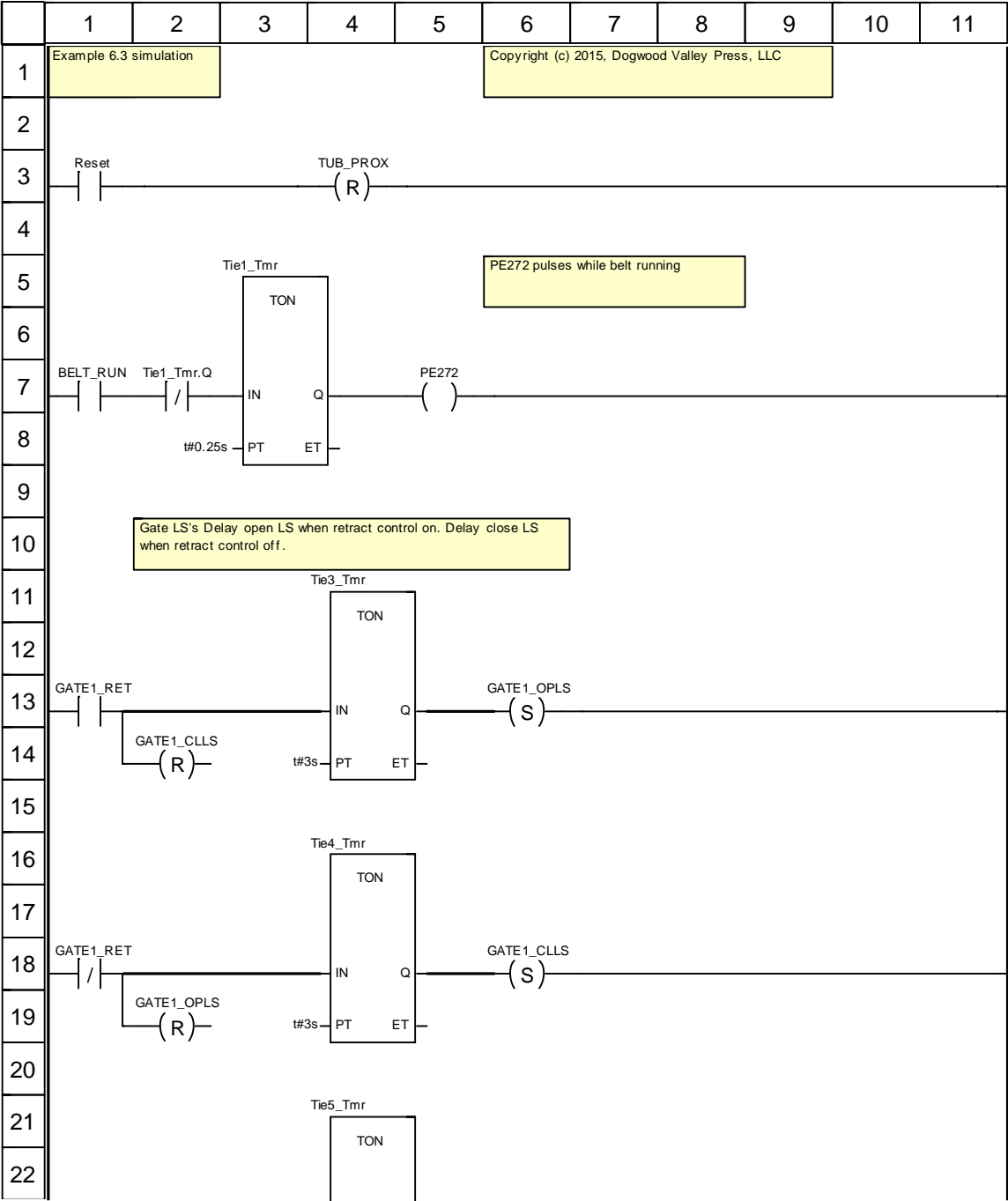
**Specific properties**

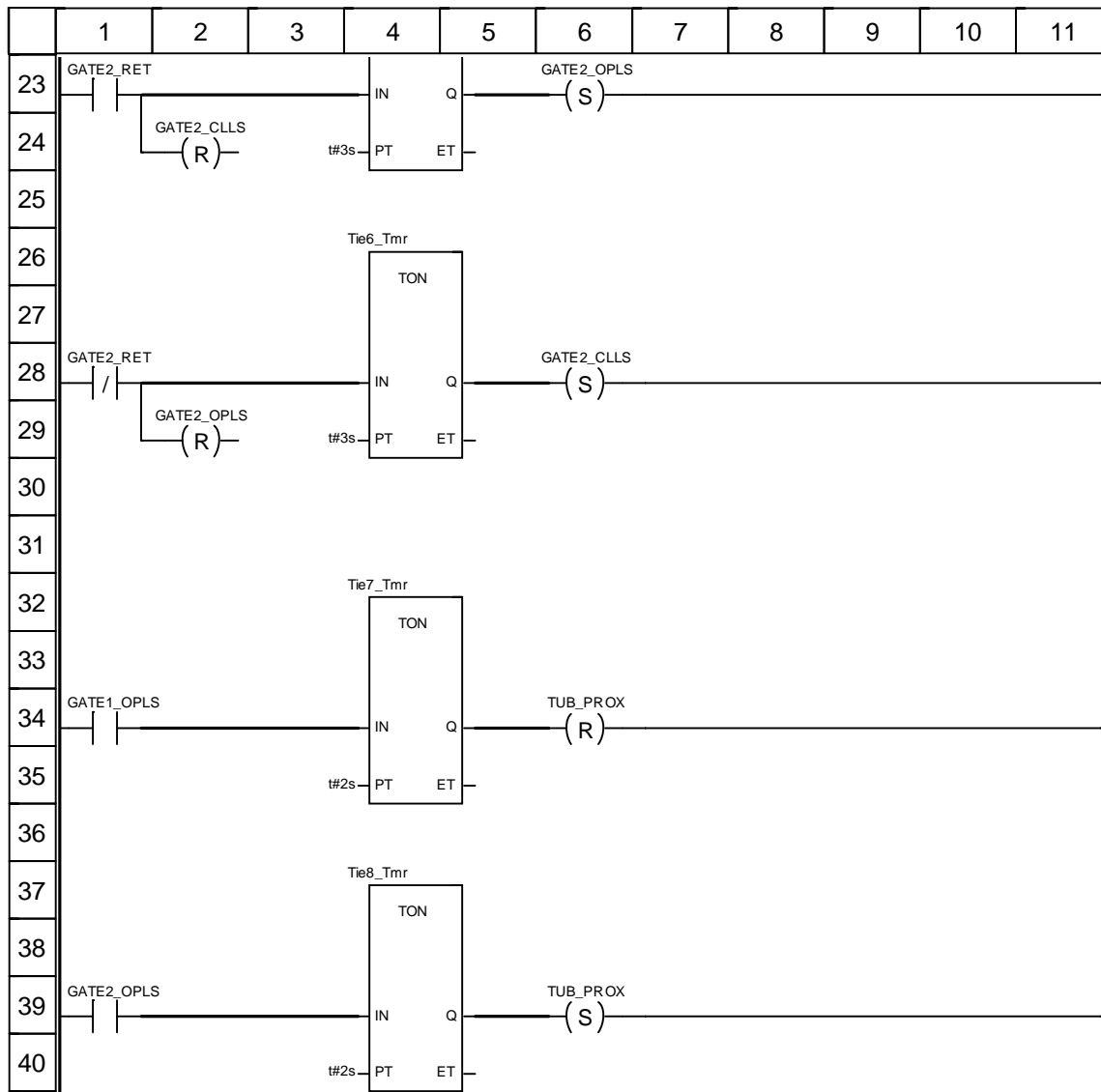
Configuration	Cyclic
Task period configuration	0
Watchdog time configuration	250

# Simulation : [MAST]

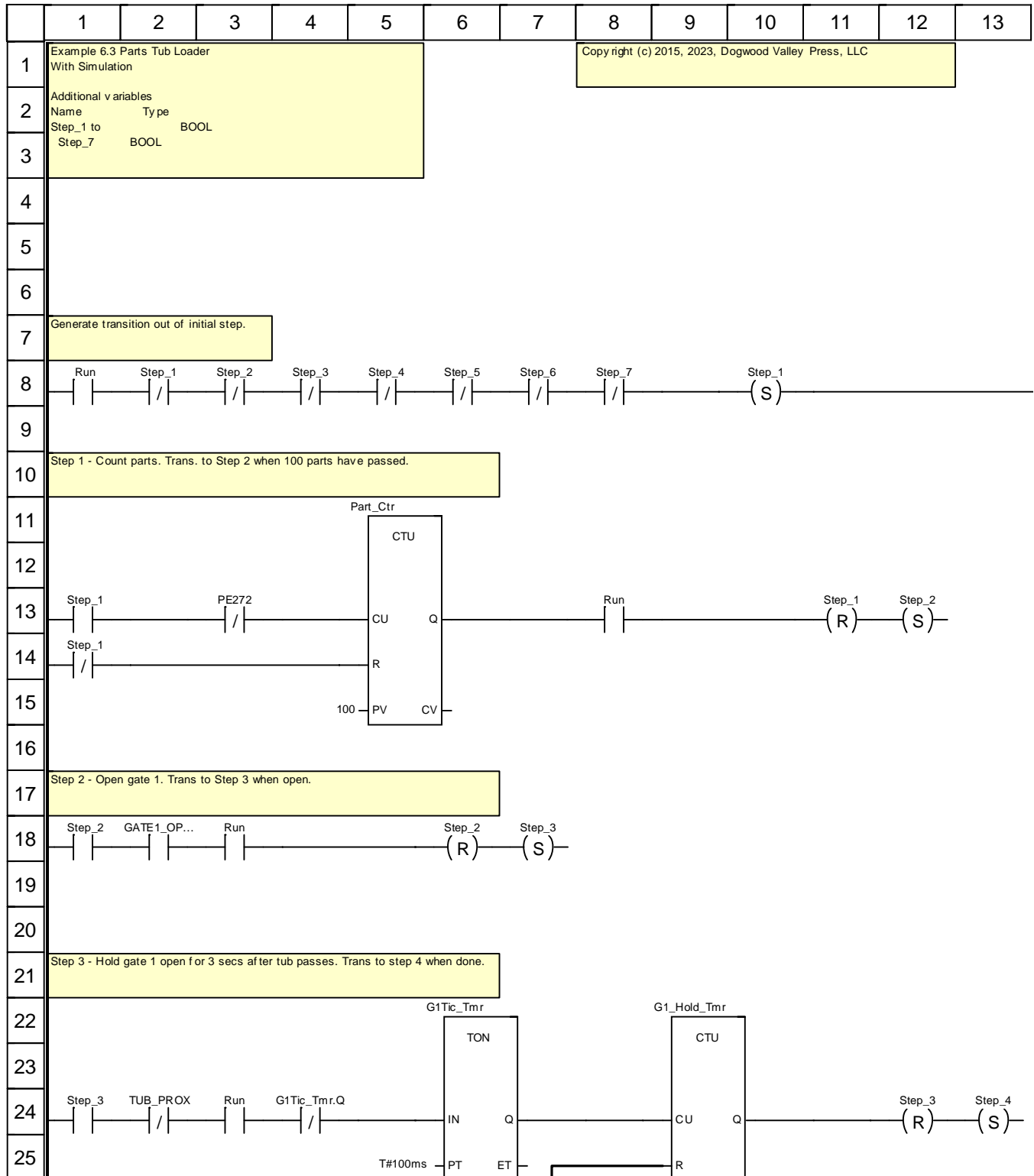
## Specific properties

Condition name	Tieback_Enable
----------------	----------------

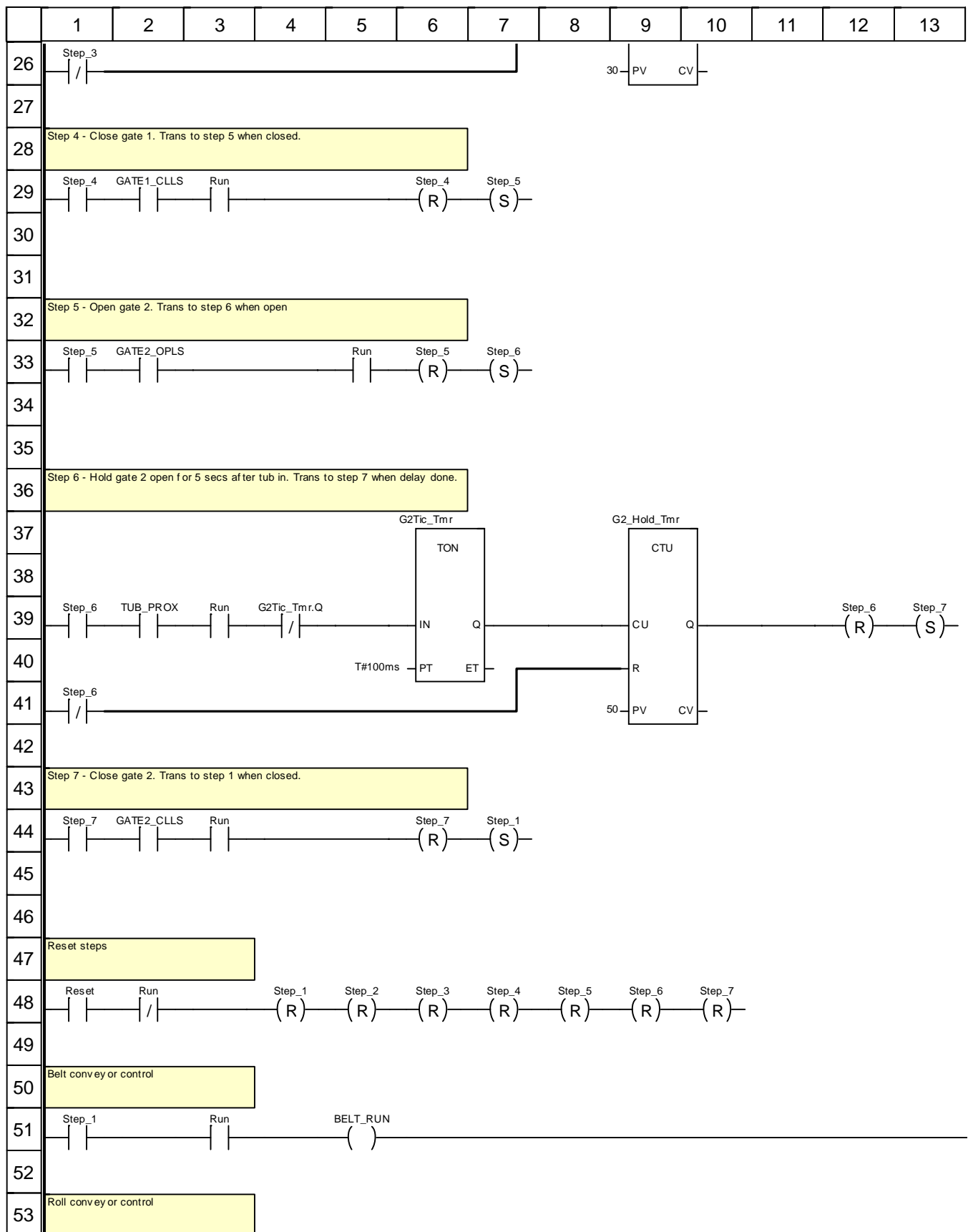




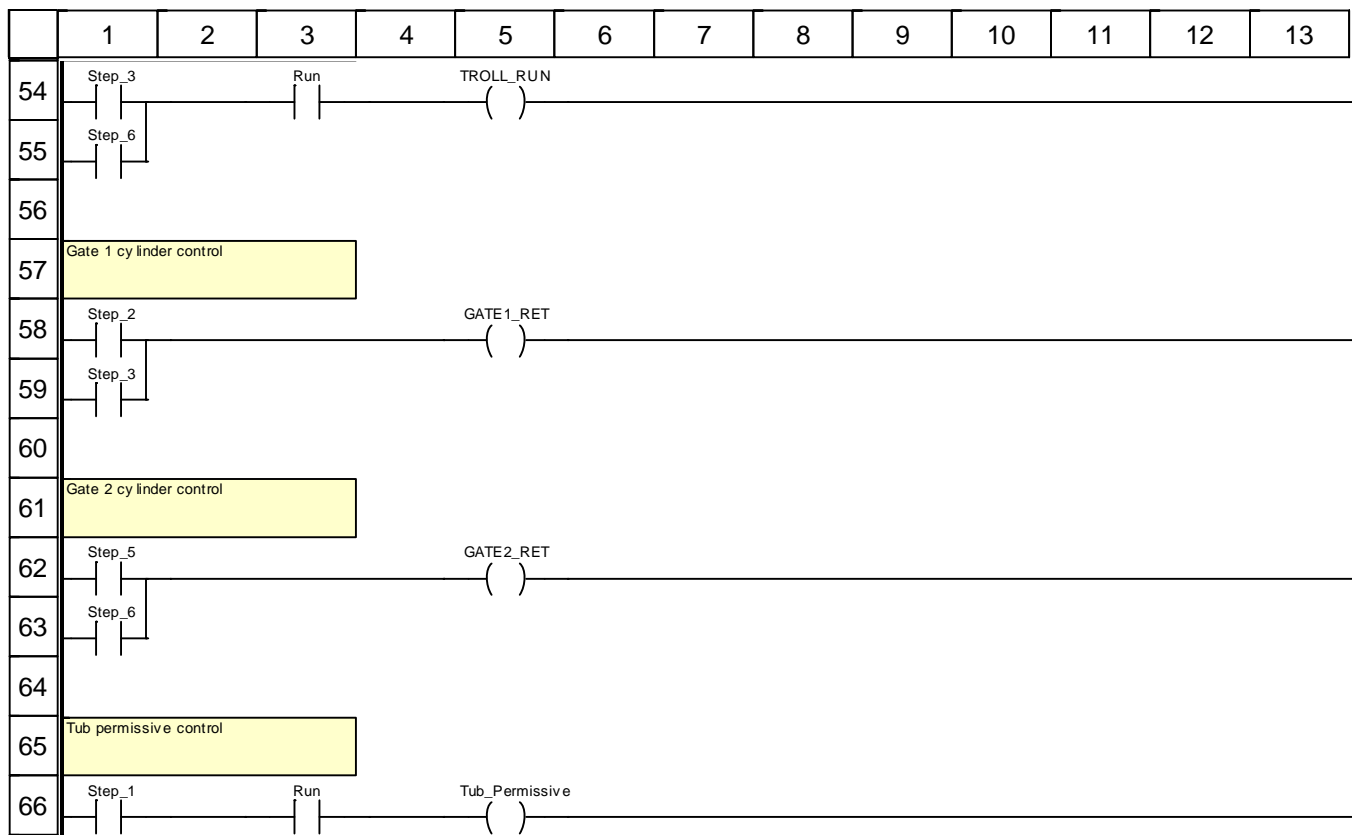
# Main : [MAST]



	14	15
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		



	14	15
26		
27		
28		
29		
30		
31		
32		
33		
34		
35		
36		
37		
38		
39		
40		
41		
42		
43		
44		
45		
46		
47		
48		
49		
50		
51		
52		
53		



	14	15
54		
55		
56		
57		
58		
59		
60		
61		
62		
63		
64		
65		
66		

**Truncated labels:**

Label	Position(s)
GATE1_OPLS	(2, 18)

# FAST

**Specific properties**

Configuration	Periodic
Task period configuration	5
Watchdog time configuration	100

# Cross References

## Application:

### Addresses

Object	Referred into	Location	Usage
--------	---------------	----------	-------

### Variables or FB instances

Object	Referred into	Location	Usage
BELT_RUN	Simulation : [MAST]	(l 7, c: 1)	R
	<Screen>Screen		R ( x1 )
	Main : [MAST]	(l 51, c: 5)	W
G1_Hold_Tmr	Main : [MAST]	(l 22, c: 9)	FC
G1Tic_Tmr	Main : [MAST]	(l 24, c: 4)	R
		(l 22, c: 6)	FC
G2_Hold_Tmr	Main : [MAST]	(l 37, c: 9)	FC
G2Tic_Tmr	Main : [MAST]	(l 39, c: 4)	R
		(l 37, c: 6)	FC
GATE1_CLLS	Simulation : [MAST]	(l 14, c: 2)	W
		(l 18, c: 6)	W
	<Screen>Screen		R ( x1 )
	Main : [MAST]	(l 29, c: 2)	R
GATE1_OPLS	Simulation : [MAST]	(l 13, c: 6)	W
		(l 19, c: 2)	W
		(l 34, c: 1)	R
	<Screen>Screen		R ( x1 )
	Main : [MAST]	(l 18, c: 2)	R
GATE1_RET	Simulation : [MAST]	(l 13, c: 1)	R
		(l 18, c: 1)	R
	<Screen>Screen		R ( x1 )
	Main : [MAST]	(l 58, c: 5)	W
GATE2_CLLS	Simulation : [MAST]	(l 24, c: 2)	W
		(l 28, c: 6)	W
	<Screen>Screen		R ( x1 )
	Main : [MAST]	(l 44, c: 2)	R
GATE2_OPLS	Simulation : [MAST]	(l 23, c: 6)	W
		(l 29, c: 2)	W
		(l 39, c: 1)	R
	<Screen>Screen		R ( x1 )
	Main : [MAST]	(l 33, c: 2)	R
GATE2_RET	Simulation : [MAST]	(l 23, c: 1)	R
		(l 28, c: 1)	R
	<Screen>Screen		R ( x1 )
	Main : [MAST]	(l 62, c: 5)	W
Part_Ctr	Main : [MAST]	(l 11, c: 5)	FC
PE272	Simulation : [MAST]	(l 7, c: 5)	W
	<Screen>Screen		R ( x1 )
	Main : [MAST]	(l 13, c: 3)	R
Reset	Simulation : [MAST]	(l 3, c: 1)	R
	Main : [MAST]	(l 48, c: 1)	R
Run	<Screen>Screen		R ( x1 )
	Main : [MAST]	(l 8, c: 1)	R
		(l 13, c: 8)	R
		(l 18, c: 3)	R

## Cross References

Object	Referred into	Location	Usage
		(l 24, c: 3)	R
		(l 29, c: 3)	R
		(l 39, c: 3)	R
		(l 44, c: 3)	R
		(l 48, c: 2)	R
		(l 51, c: 3)	R
		(l 54, c: 3)	R
		(l 66, c: 3)	R
		(l 33, c: 5)	R
Step_1	Main : [MAST]	(l 8, c: 2)	R
		(l 8, c: 10)	W
		(l 13, c: 1)	R
		(l 14, c: 1)	R
		(l 51, c: 1)	R
		(l 66, c: 1)	R
		(l 13, c: 11)	W
		(l 44, c: 7)	W
		(l 48, c: 4)	W
Step_2	Main : [MAST]	(l 8, c: 3)	R
		(l 18, c: 1)	R
		(l 58, c: 1)	R
		(l 13, c: 12)	W
		(l 18, c: 6)	W
		(l 48, c: 5)	W
Step_3	Main : [MAST]	(l 8, c: 4)	R
		(l 24, c: 1)	R
		(l 26, c: 1)	R
		(l 54, c: 1)	R
		(l 59, c: 1)	R
		(l 18, c: 7)	W
		(l 24, c: 12)	W
		(l 48, c: 6)	W
Step_4	Main : [MAST]	(l 8, c: 5)	R
		(l 29, c: 1)	R
		(l 24, c: 13)	W
		(l 29, c: 6)	W
		(l 48, c: 7)	W
Step_5	Main : [MAST]	(l 8, c: 6)	R
		(l 33, c: 1)	R
		(l 62, c: 1)	R
		(l 29, c: 7)	W
		(l 33, c: 6)	W
		(l 48, c: 8)	W
Step_6	Main : [MAST]	(l 8, c: 7)	R
		(l 39, c: 1)	R
		(l 41, c: 1)	R
		(l 55, c: 1)	R
		(l 63, c: 1)	R
		(l 33, c: 7)	W
		(l 39, c: 12)	W
		(l 48, c: 9)	W
Step_7	Main : [MAST]	(l 8, c: 8)	R
		(l 44, c: 1)	R
		(l 39, c: 13)	W
		(l 44, c: 6)	W

## Cross References

Object	Referred into	Location	Usage
		(l 48, c: 10)	W
Tie1_Tmr	Simulation : [MAST]	(l 7, c: 2)	R
		(l 5, c: 3)	FC
Tie3_Tmr	Simulation : [MAST]	(l 11, c: 4)	FC
Tie4_Tmr	Simulation : [MAST]	(l 16, c: 4)	FC
Tie5_Tmr	Simulation : [MAST]	(l 21, c: 4)	FC
Tie6_Tmr	Simulation : [MAST]	(l 26, c: 4)	FC
Tie7_Tmr	Simulation : [MAST]	(l 32, c: 4)	FC
Tie8_Tmr	Simulation : [MAST]	(l 37, c: 4)	FC
Tieback_Enable	Simulation : [MAST]	Activation condition: Tieback_Enable	R
TROLL_RUN	<Screen>Screen		R ( x1 )
	Main : [MAST]	(l 54, c: 5)	W
Tub_Permissive	Main : [MAST]	(l 66, c: 5)	W
TUB_PROX	Simulation : [MAST]	(l 3, c: 4)	W
		(l 34, c: 6)	W
		(l 39, c: 6)	W
	<Screen>Screen		R ( x1 )
	Main : [MAST]	(l 24, c: 2)	R
		(l 39, c: 2)	R

# Cross References

New\_DFB:

Variables or FB instances

Object	Referred into	Location	Usage
--------	---------------	----------	-------