

Traffic Light

- The red light is steadily lit for a period of 4 seconds.
- Next the red-light flashes @2Hz, for a duration of 2 seconds.
- Then the green light is steadily lit for a duration of 4 seconds.
- Finally, the amber light is steadily lit for 2 seconds.

A toggle switch is added to select the Day or Night mode of operations. During the daytime, the operation of the traffic signal is as described above. However, during the night only the yellow light flashes @ 2 Hz. The red and green lamps are off.

Two_Hz xTask_1Night_DayTask_2PLC_PRGVisualization

PROGRAM Two_Hz

	Scope	Name	Address	Data type	Initialization	Comment	Attributes
1	VAR	var_1		BOOL			

1

Night_Day.var_1

var_1

var_1

/

Two_HzTask_1 xNight_DayTask_2PLC_PRGVisualization

Configuration

Priority (0..31):

1

Task group

IEC-Tasks

Type

Cyclic

Interval (e.g. t#200ms)

1000

ms

Watchdog

Enable

Time (e.g. t#200ms)

ms

Sensitivity

1

+ Add Call

✕ Remove Call

✎ Change Call

⬆ Move Up

⬇ Move Down

➦ Open POU

POU	Comment
Two_Hz	

Two_HzTask_1**Night_Day**Task_2PLC_PRGVisualization

PROGRAM Night_Day

	Scope	Name	Address	Data type	Initialization	Comment	Attributes
1	VAR	var_1		BOOL			

1var_1var_1()

Two_HzTask_1Night_DayTask_2 xPLC_PRGVisualization

Configuration

Priority (0..31):

1

Task group

IEC-Tasks

Type

Event

Event

PLC_PRG.control

...

Watchdog

☐ Enable

Time (e.g. t#200ms)

ms

Sensitivity

1

+ Add Call

✕ Remove Call

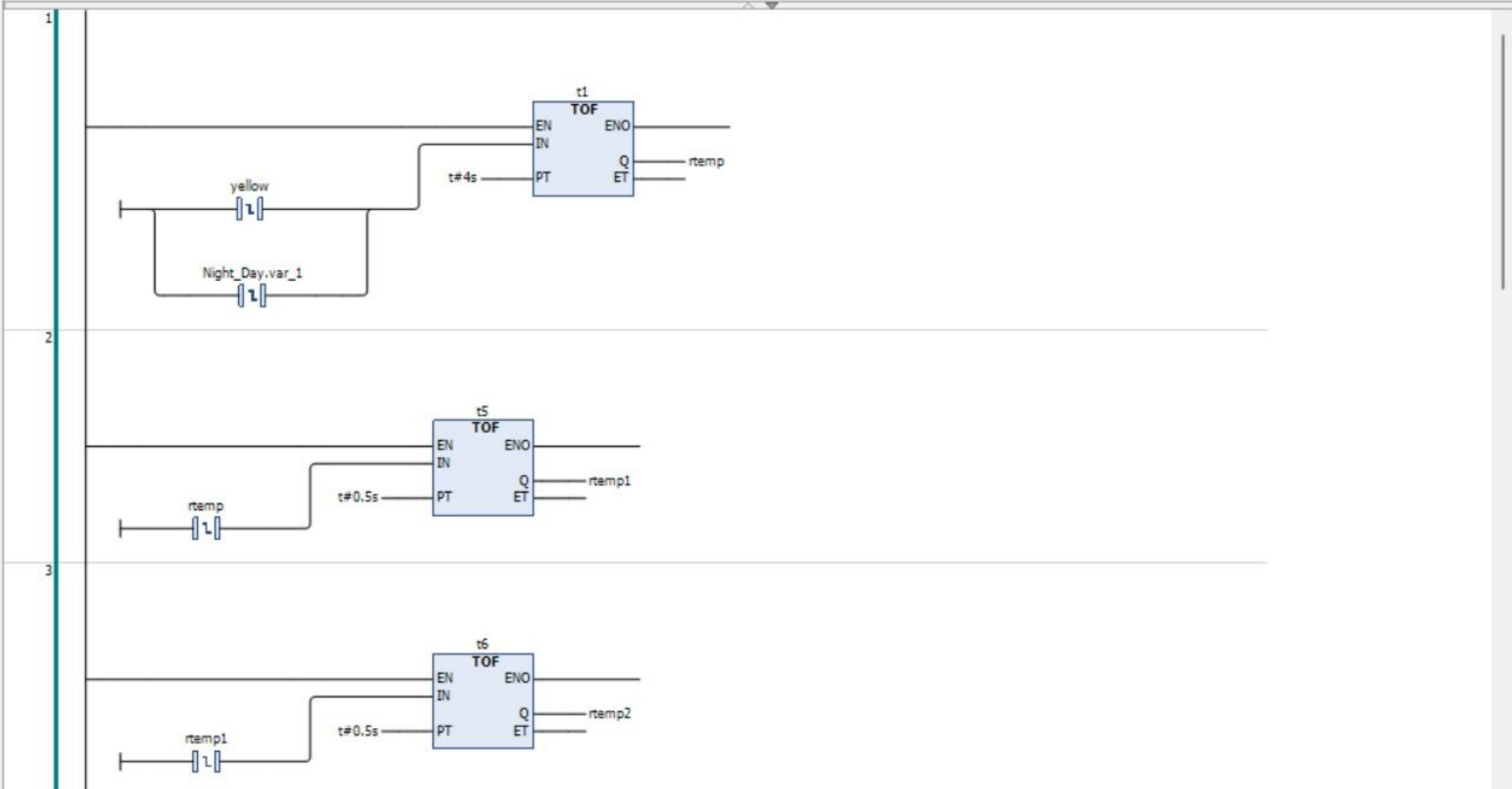
✎ Change Call

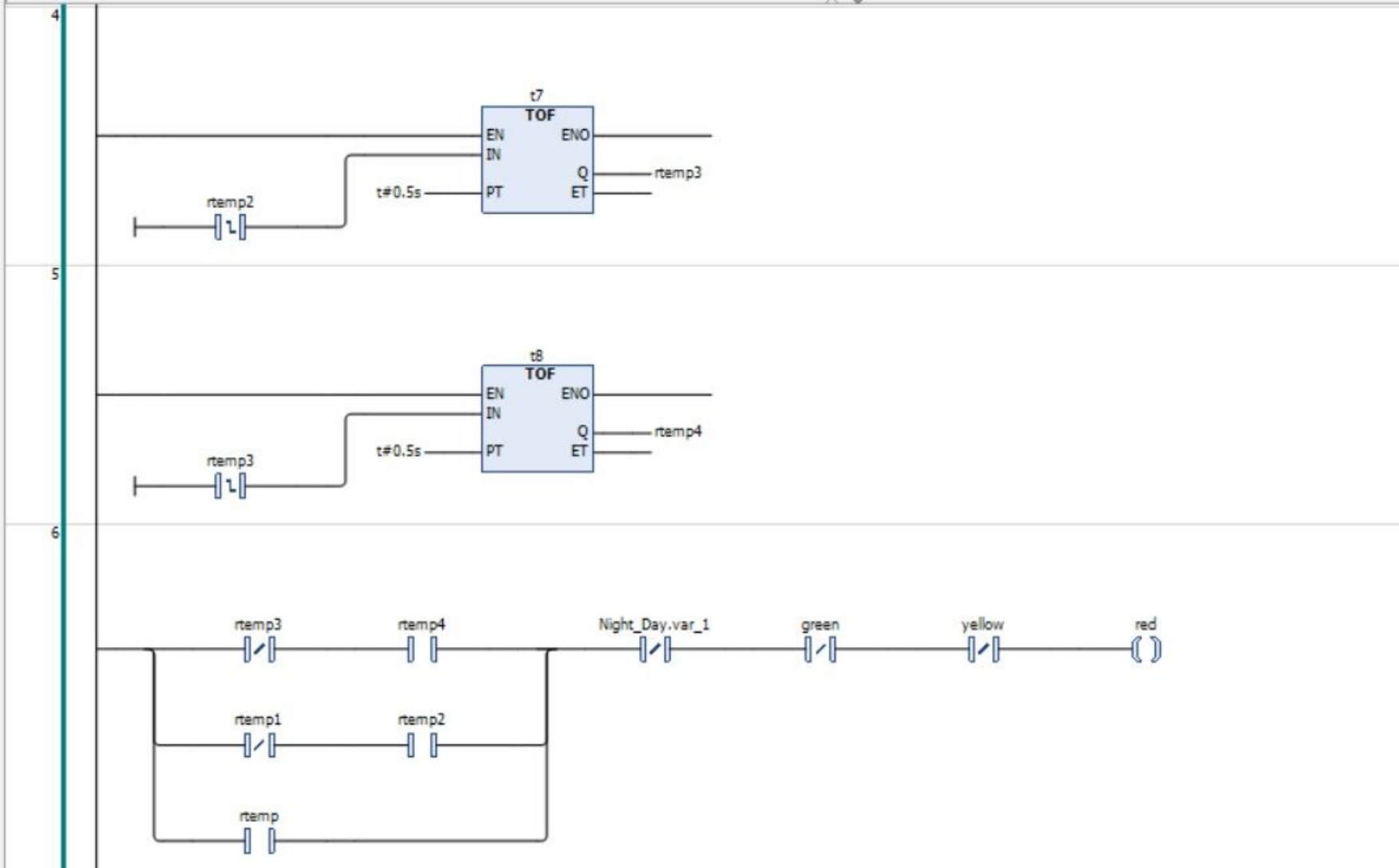
⬆ Move Up

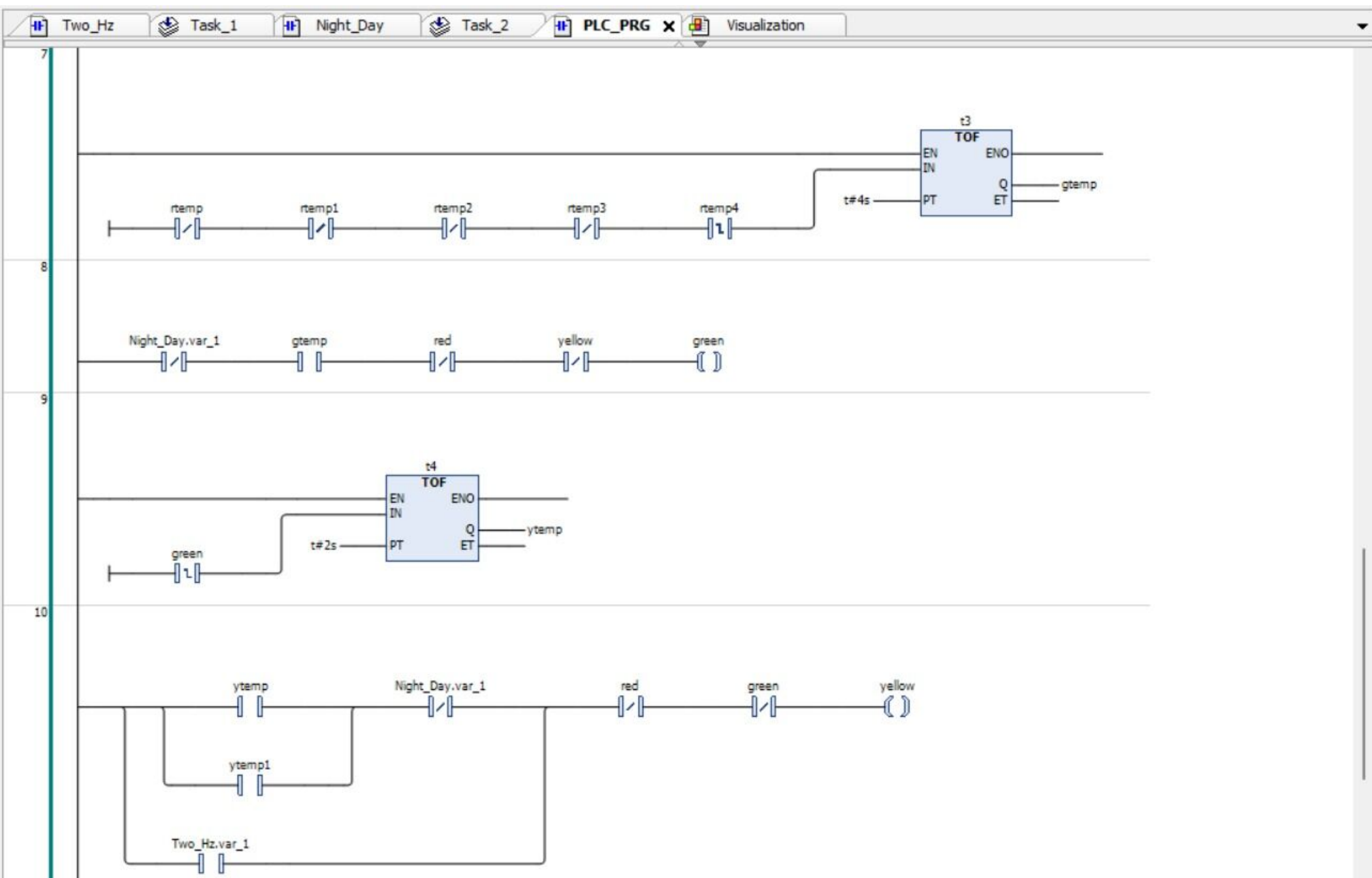
⬇ Move Down

➡ Open POU

POU	Comment
Night_Day	







11

var_1

red

green

yellow

ytamp1

var_1

12

