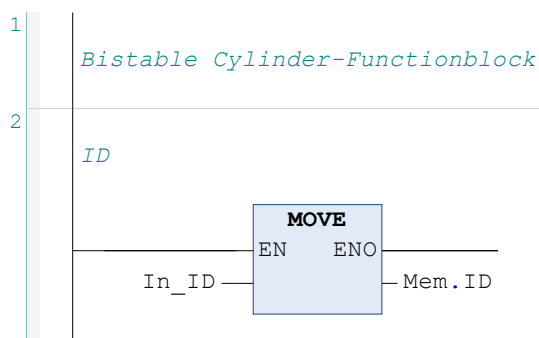
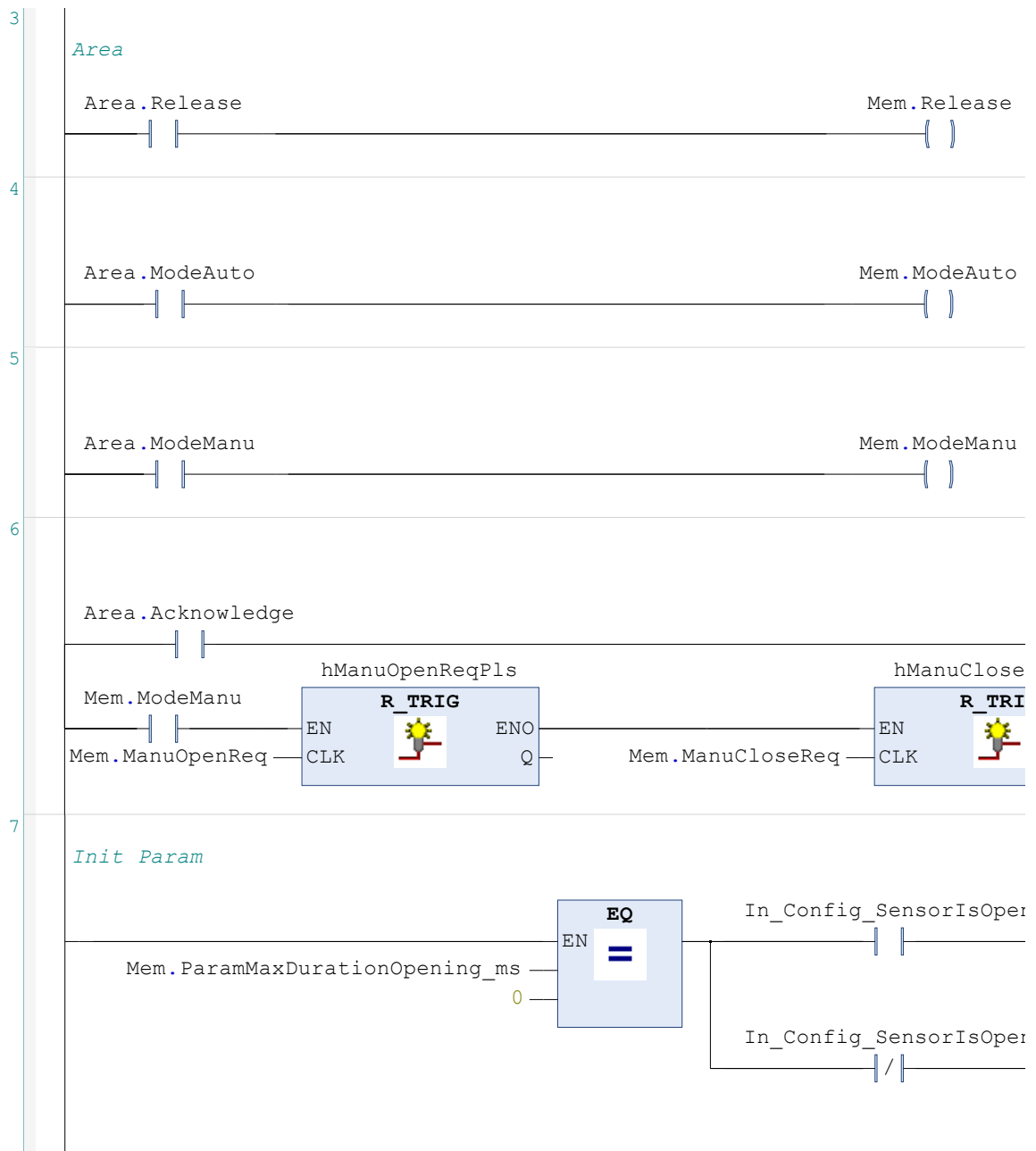
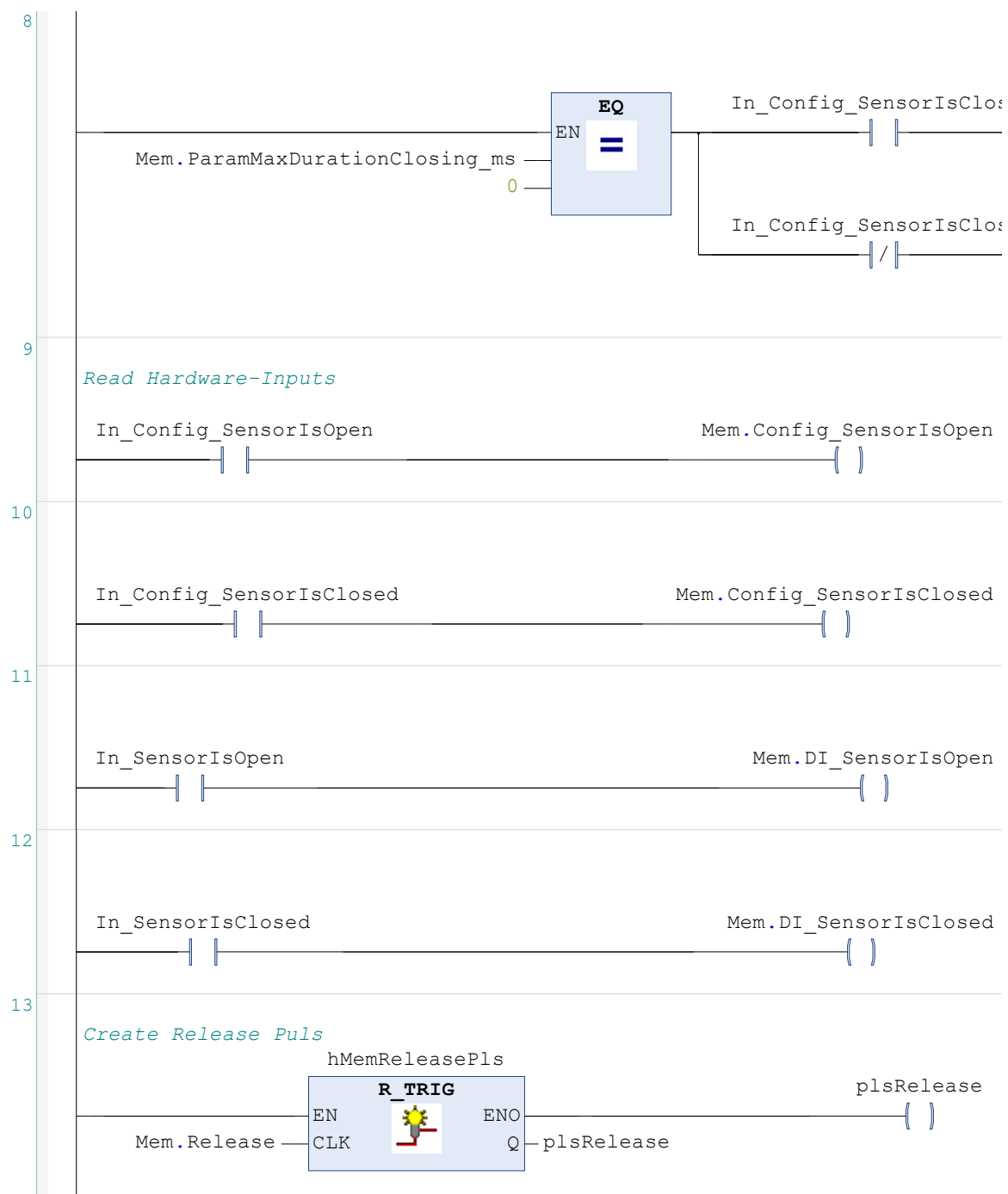
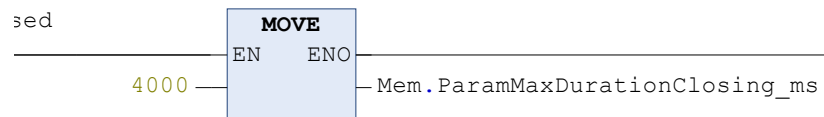
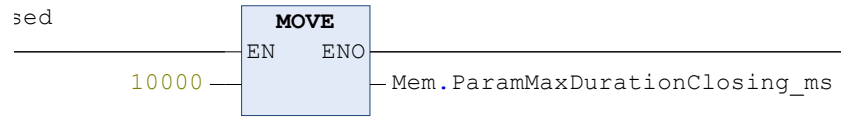


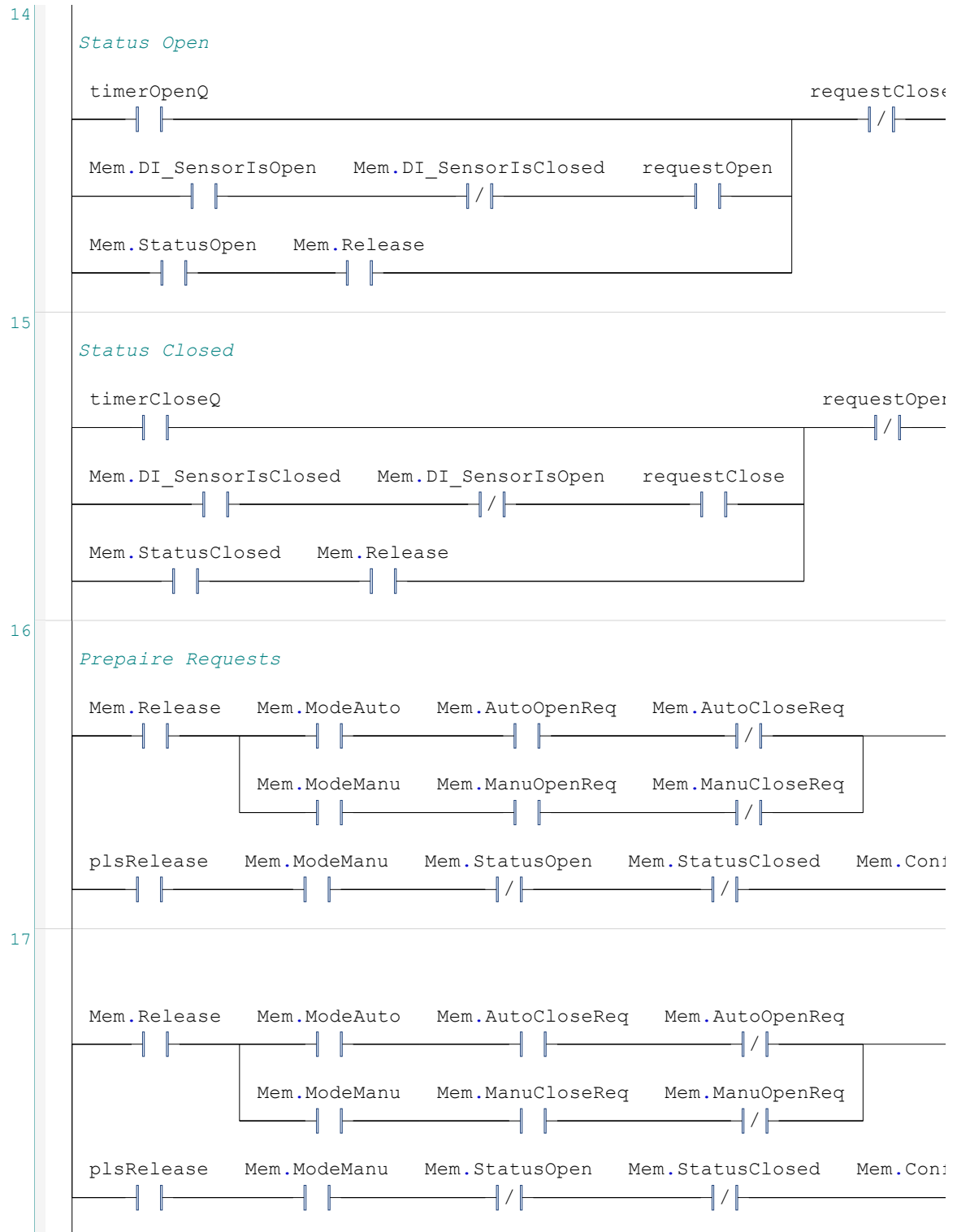
```
1  FUNCTION_BLOCK FB_Cylinder
2  VAR_INPUT
3      In_ID : INT ;
4      In_SensorIsOpen : BOOL ;
5      In_SensorIsClosed : BOOL ;
6      In_Config_SensorIsOpen : BOOL ;
7      In_Config_SensorIsClosed : BOOL ;
8  END_VAR
9  VAR_OUTPUT
10     Out_Release : BOOL ;
11     Out_ValveOpen : BOOL ;
12     Out_ValveClose : BOOL ;
13     Out_DebugOpen : BOOL ;
14     Out_DebugClose : BOOL ;
15 END_VAR
16 VAR_IN_OUT
17     Mem : ud_Cylinder ;
18     Area : ud_Area ;
19 END_VAR
20 VAR
21     IEC_Timer_ValveOpen : TON ;
22     IEC_Timer_ValveClose : TON ;
23     timerOpenCoil : BOOL ;
24     timerCloseCoil : BOOL ;
25     timerOpenQ : BOOL ;
26     timerCloseQ : BOOL ;
27     requestOpen : BOOL ;
28     requestClose : BOOL ;
29     plsRelease : BOOL ;
30     plsOpen : BOOL ;
31     plsClose : BOOL ;
32     timerDurationOpening_ms : DINT ;
33     timerDurationClosing_ms : DINT ;
34     hManuOpenReqPls : R_TRIG ;
35     hManuCloseReqPls : R_TRIG ;
36     hMemReleasePls : R_TRIG ;
37 END_VAR
38
```





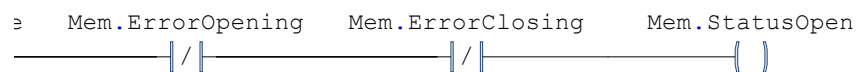






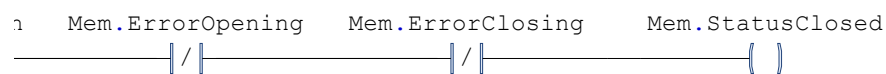
POU: FB_Cylinder

3 Mem.ErrorOpening Mem.ErrorClosing Mem.StatusOpen



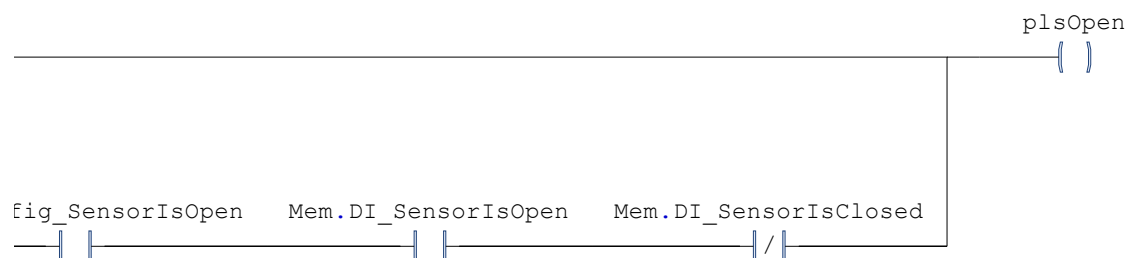
A single ladder logic rung for the coil Mem.StatusOpen. It contains two normally closed contacts in series: Mem.ErrorOpening and Mem.ErrorClosing.

1 Mem.ErrorOpening Mem.ErrorClosing Mem.StatusClosed



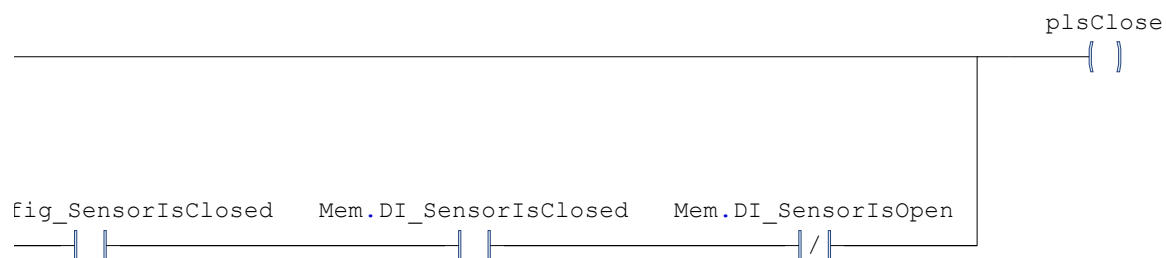
A single ladder logic rung for the coil Mem.StatusClosed. It contains two normally closed contacts in series: Mem.ErrorOpening and Mem.ErrorClosing.

fig_SensorIsOpen Mem.DI_SensorIsOpen Mem.DI_SensorIsClosed

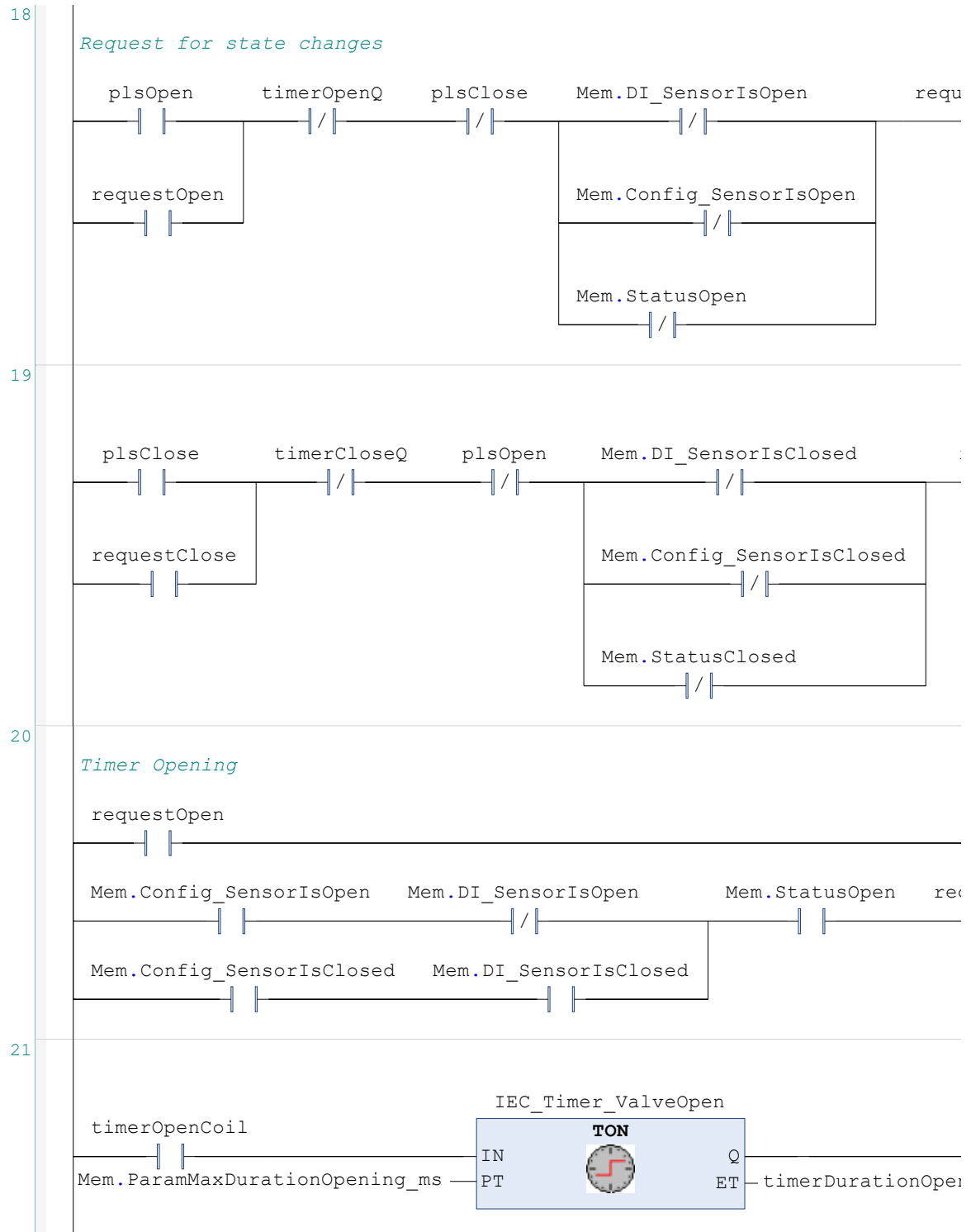


A single ladder logic rung for the coil plsOpen. It contains three normally open contacts in series: fig_SensorIsOpen, Mem.DI_SensorIsOpen, and Mem.DI_SensorIsClosed.

fig_SensorIsClosed Mem.DI_SensorIsClosed Mem.DI_SensorIsOpen



A single ladder logic rung for the coil plsClose. It contains three normally open contacts in series: fig_SensorIsClosed, Mem.DI_SensorIsClosed, and Mem.DI_SensorIsOpen.



estOpen
()

requestClose
— ()

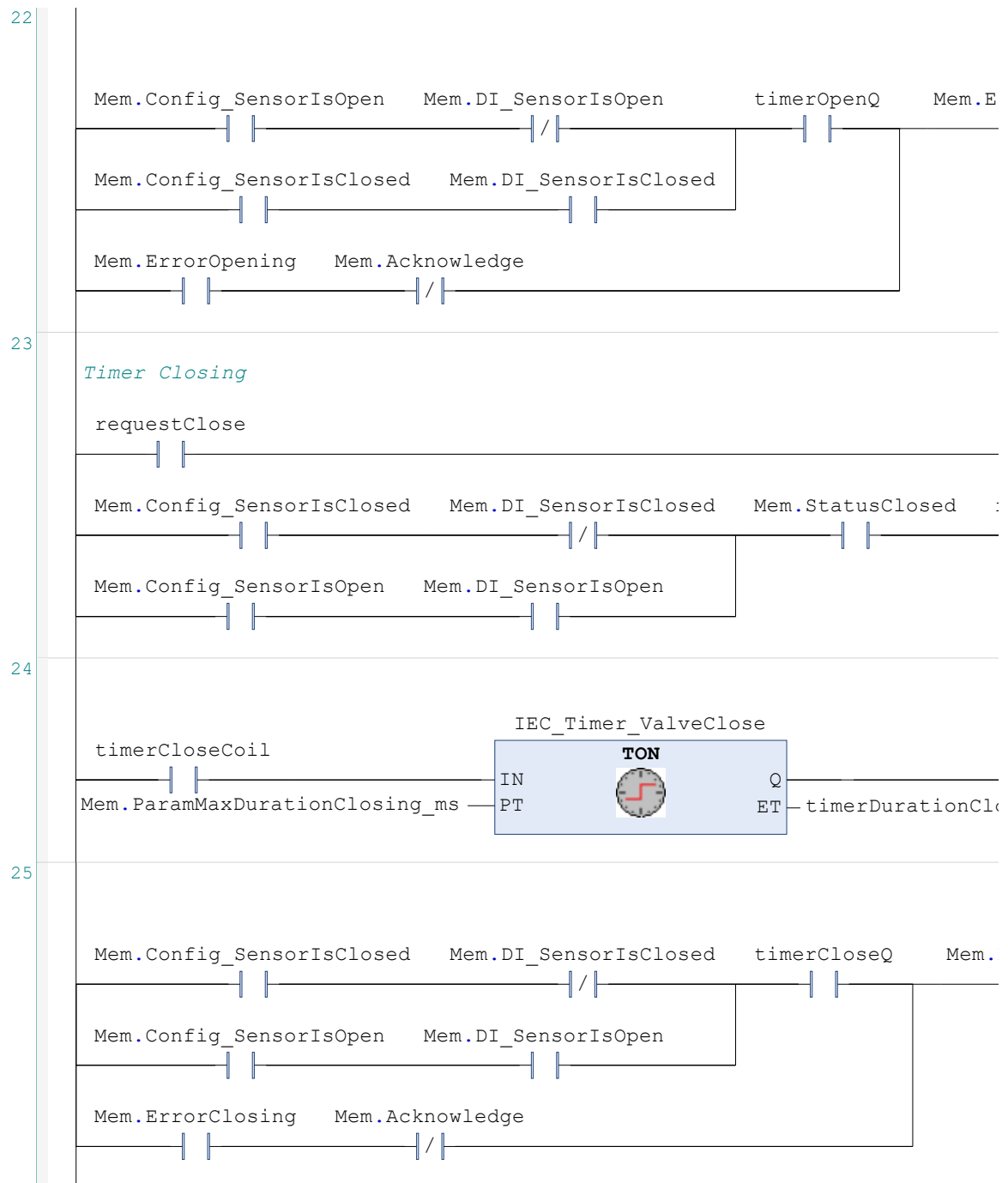
timerOpenCoil
()

questClose Mem.Release

— / — — —

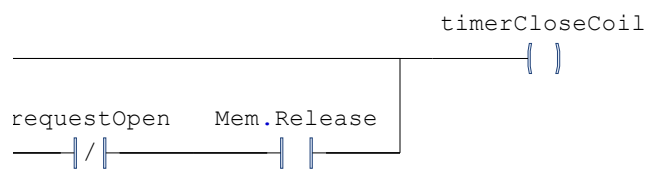
timerOpenQ
()

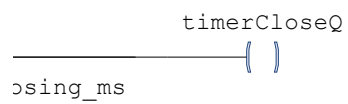
ning_ms



rrorOpening

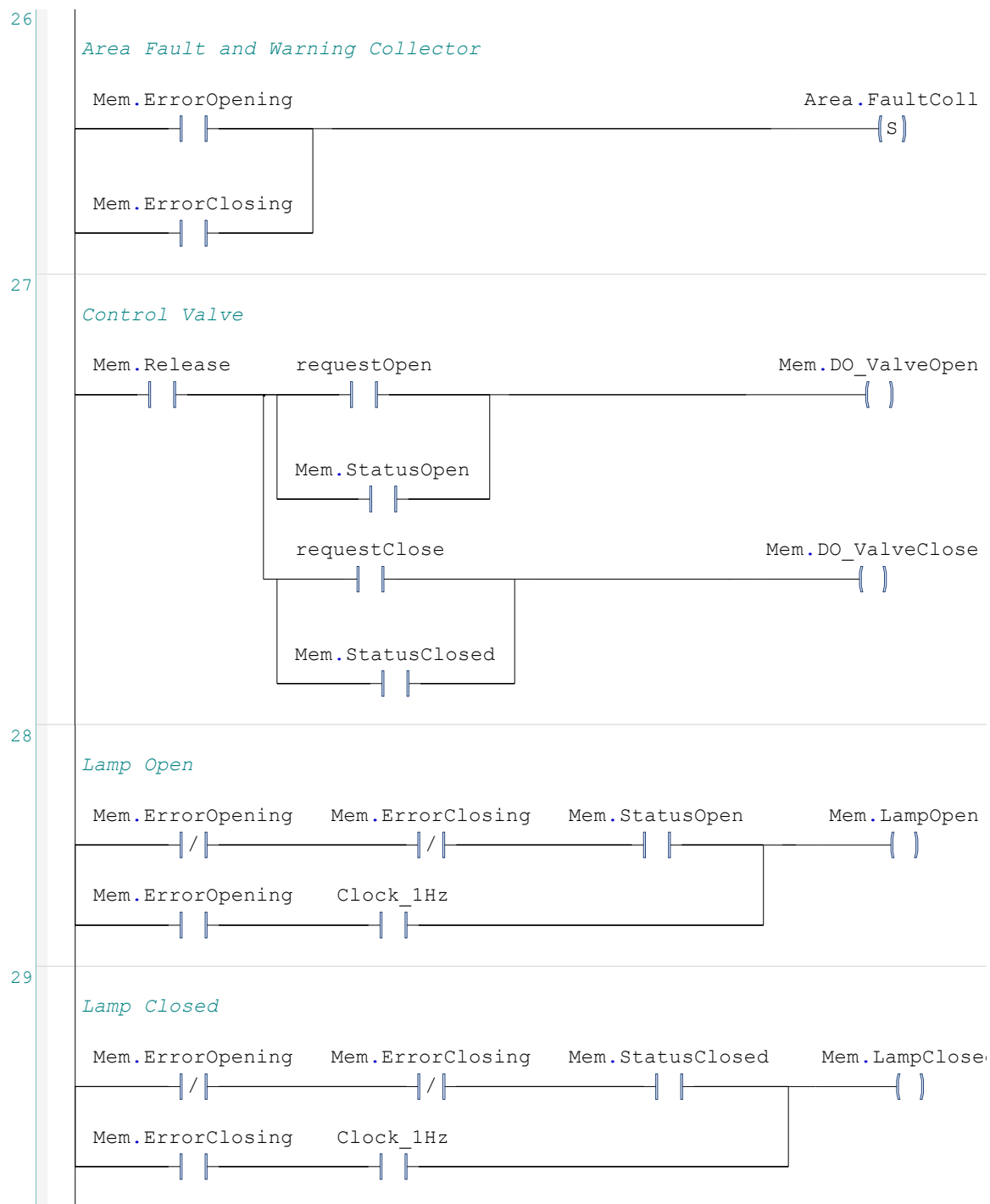
— ()





ErrorClosing

— ()



d

